

Brook for Free Pascal

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Chapter 1

Unit BrookAction

1.1 Description

Action classes.

1.2 Uses

- BrookClasses(3)
- BrookHttpDefs(10)
- BrookException(7)
- BrookMessages(13)
- BrookUtils(17)
- BrookConsts(6)
- BrookHTTPUtils(11)
- BrookHTTPConsts(9)
- Classes
- SysUtils

1.3 Overview

`EBrookAction` Class Handles exceptions for `TBrookAction`(1.4).

`TBrookAction` Class Provides features to handle HTTP requests and responses.

`TBrookGAction` Class Provides features to handle HTTP requests and responses mapping URIs to object.

1.4 Classes, Interfaces, Objects and Records

EBrookAction Class

Hierarchy

EBrookAction > EBrook(7.4) > Exception

Description

Handles exceptions for TBrookAction(1.4).

TBrookAction Class

Hierarchy

TBrookAction > TBrookPersistent(3.4) > TPersistent

Description

Provides features to handle HTTP requests and responses.

Properties

Field	<code>public property Field[constAName:string]: string read GetField write SetField;</code> Handles the <code>fields(1.4)</code> of a form.
Param	<code>public property Param[constAName:string]: string read GetParam write SetParam;</code> Handles the <code>Query_String</code> parameters of a URL.
Variable	<code>public property Variable[constAName:string]: string read GetVariable write SetVariable;</code> Handles <code>variables(1.4)</code> from a parametrized URL.
Files	<code>public property Files: TBrookUploadedFiles read FFiles;</code> Handles a file list of <code>fields(1.4)</code> of a form.
Fields	<code>public property Fields: TStrings read FFields;</code> Handles a string list of <code>fields</code> of a form.
Params	<code>public property Params: TStrings read FParams;</code> Handles a string list of the <code>Query_String</code> parameters of a URL.
Variables	<code>public property Variables: TStrings read FVariables;</code> Handles a string list of <code>variables</code> from a parametrized URL.

Method `public property Method: string read GetMethod;`
Returns the HTTP `request(1.4)` method.

HttpRequest `public property HttpRequest: TBrookRequest read FHttpRequest;`
Provides services related to HTTP requests drived to a webserver.

HttpResponse `public property HttpResponse: TBrookResponse read FHttpResponse;`
Provides services related to the HTTP responses comming back from a webserver.

Methods

Create

Declaration `public constructor Create; overload; virtual;`

Description Creates an instance of a `TBrookAction(1.4)` class.

Create

Declaration `public constructor Create(ARequest: TBrookRequest; AResponse: TBrookResponse); overload; virtual;`

Description Creates an instance of a `TBrookAction(1.4)` class passing `params(1.4)` to `request(1.4)/response`.

Destroy

Declaration `public destructor Destroy; override;`

Description Frees an instance of `TBrookAction(1.4)` class.

Register

Declaration `public class procedure Register(const APattern: string; const ADefault: Boolean = False); overload;`

Description Registers an action.

Parameters **APattern** Is an expression defining which URLs is used to call an action. It is possible to use `variables(1.4)` inside URLs:

:name – Represents a `variable(1.4)` that spans single URL component between slashes.

Examples:

```
TMyAction.Register('/foo/:myvar');
```

Value of a `variable(1.4)` "myvar" can be read from the property `Variables(1.4)`

or `Variable(1.4)`, e.g.:

```
Write(1.4)(Variables.Values['myvar']);
```

```
Write(1.4)(Variable(1.4)['myvar']);
```

Any number of `variables(1.4)` can be combined:

```
TMyAction.Register('/foo/:cat/:id');
```

***name** – Represents a `variable(1.4)` that spans one or more levels between slashes in the

Examples:

```
TMyAction.Register('/home/*path');
```

Any of the following URLs will match:

```
http://localhost/cgi-bin/cgi1/home/file
```

```
http://localhost/cgi-bin/cgi1/home/dir/file
```

```
http://localhost/cgi-bin/cgi1/home/dir/subdir/file etc.
```

`Variable(1.4) Variables.Values['path']` will receive 'file', 'dir/file' or 'dir/subdir/file' correspondingly.

You can also add static text after `variable(1.4)` part:

```
TMyAction.Register('/home/*path/download');
```

`http://localhost/cgi-bin/cgi1/home/dir/file/download` – This will match,

`http://localhost/cgi-bin/cgi1/home/dir/file/info` – but not this, because ending is different.

Multi-level `variable(1.4)` can be combined with any number of single-level `variables(1.4)` in any order:

```
TMyAction.Register('/home/user/:uid/file/*fpath/version/:vid/info');
```

NOTE: Only one multi-level `variable(1.4)` can be specified per URL.

url/ – Adds a slash to the end of the URL if does not exist. Example:

```
TMyAction.Register('/foo/');
```

An action can be accessed as `http://localhost/cgi-bin/cgi1/foo` or `http://localhost/cgi-bin/cgi1/foo/`.

When called as `http://localhost/cgi-bin/cgi1/foo`, it will be automatically redirected to `http://localhost/cgi-bin/cgi1/foo/`. If the `pathinfo` is different from `/foo` a 404 page is returned;

NOTE: Two actions can't be registered with the same pattern except when they are called by means of different HTTP methods.

ADefault A action registered as *Default* will be called automatically if the URL does not match with *Pattern* of any registered actions. It is not allowed to `register(1.4)` more than one action as default. A typical example of use is:

```
TMyAction.Register('*', True);
```

Register

Declaration `public class procedure Register(const APattern: string; const AMethod: TBrookRequestMethod; const ADefault: Boolean = False); overload;`

Description Registers an action specifying the HTTP `request(1.4) method(1.4)`.

Parameters **AMethod** Informs the HTTP `request(1.4) method(1.4)` being valid the following `options(1.4)`: `rmAll(17.6)`, `rmGet(17.6)`, `rmHead(17.6)`, `rmOptions(17.6)`, `rmPost(17.6)`, `rmPut(17.6)` or `rmDelete(17.6)`. The only way to `register` two actions with the same pattern is differentiating the value of this parameter. If `at(6.2)` least one action has this parameter changed, the route mapping is enabled in `TBrookSettings(17.4).Mapped(17.4)`. A typical example of use is:


```

@(longcode
procedure TMyAction1.Get;
begin
    Write('GET');
end;

procedure TMyAction1.Put;
begin
    Write('PUT');
end;

procedure TMyAction2.Post;
begin
    Write('POST');
end;

initialization
    TMyAction1.Register('foo1', rmGet);
    TMyAction1.Register('foo1', rmPut);
    TMyAction2.Register('foo1', rmPost);)

```

GetPath

Declaration public class function GetPath: string;

Description Returns the path of action. Exemple:
/cgi-bin/cgi1/myaction.

DoFillVariables

Declaration public procedure DoFillVariables(const ANames, AValues:
TBrookArrayOfString); virtual;

Description Fills the Variables(1.4) with the registered variables(1.4) passed through the URL.

DoFillingVariables

Declaration public procedure DoFillingVariables(const AIndex: Integer; const ANames,
AValues: TBrookArrayOfString); virtual;

Description Fills the Variables(1.4) with the registered variables(1.4) passed one by one through the URL.

SetCookie

Declaration `public procedure SetCookie(const AName, AValue: string; const AExpires: TDateTime = NullDate; const APath: string = ES; const ADomain: string = ES; const ASecure: Boolean = False; const AHttpOnly: Boolean = False);`

Description Creates a cookie.

GetCookie

Declaration `public function GetCookie(const AName: string): string;`

Description Get(1.4) a cookie value.

DeleteCookie

Declaration `public procedure DeleteCookie(const AName: string; const APath: string = ES; const ADomain: string = ES);`

Description Deletes a cookie.

DoRequest

Declaration `public procedure DoRequest(ARequest: TBrookRequest; AResponse: TBrookResponse); virtual;`

Description Calls the method(1.4) `TBrookAction(1.4).Request(1.4)`.

Request

Declaration `public procedure Request(ARequest: TBrookRequest; AResponse: TBrookResponse); virtual;`

Description Is triggered by a request of any HTTP method(1.4).

GetFields

Declaration `public procedure GetFields(AObject: TObject);`

Description Get(1.4) an object with the fields(1.4) coming from a `x-www-form-urlencoded` form.

GetParams

Declaration `public procedure GetParams(AObject: TObject);`

Description Get(1.4) an object with the params(1.4) coming from a `QUERY_STRING`.

GetVariables

Declaration public procedure GetVariables(AObject: TObject);

Description Get(1.4) an object with the variables(1.4) coming from an URL.

UrlFor

Declaration public function UrlFor(AActionClass: TBrookActionClass): string; overload;

Description Creates an URL for action.

UrlFor

Declaration public function UrlFor(AActionClass: TBrookActionClass; const AParams: array of string): string; overload;

Description Creates an URL for an action informing an array of parameters. Exemple:

```
@(longcode
    procedure TMyAction.Get;
    begin
        // When calling with http://localhost/cgi-bin/cgi1/foo/myvalue
        // the output will be /cgi-bin/cgi1/foo/myvalue
        Write(UrlFor(TMyAction, ['myvalue']));
    end;

    initialization
        TMyAction.Register('/foo/:myvar');
```

UrlFor

Declaration public function UrlFor(AClassName: string; const AParams: array of string): string; overload;

Description Creates an URL for an action passing an array of parameters however informing the class name as string.

UrlFor

Declaration public function UrlFor(AClassName: string): string; overload;

Description Creates an URL for an action informing the class name as string.

Get

Declaration public procedure Get; virtual;

Description Is triggered by a GET HTTP request(1.4) method(1.4).

Post

Declaration `public procedure Post; virtual;`

Description Is triggered by a POST HTTP request(1.4) method(1.4).

Put

Declaration `public procedure Put; virtual;`

Description Is triggered by a PUT HTTP request(1.4) method(1.4).

Patch

Declaration `public procedure Patch; virtual;`

Description Is triggered by a PATCH HTTP request(1.4) method(1.4).

Delete

Declaration `public procedure Delete; virtual;`

Description Is triggered by a DELETE HTTP request(1.4) method(1.4).

Head

Declaration `public procedure Head; virtual;`

Description Is triggered by a HEAD HTTP request(1.4) method(1.4).

Options

Declaration `public procedure Options; virtual;`

Description Is triggered by an OPTIONS HTTP request(1.4) method(1.4).

Redirect

Declaration `public procedure Redirect(const AUrl: string); overload;`

Description Redirects to an URL.

Redirect

Declaration `public procedure Redirect(const AUrl: string; const AStatusCode: Word);
overload;`

Description Redirects to an URL informing the (302, 307) status code.

Redirect

Declaration `public procedure Redirect(const AUrl: string; const AUseRootUrl: Boolean); overload;`

Description Redirects to an URL informing the root URL.

Redirect

Declaration `public procedure Redirect(const AUrl: string; const AUseRootUrl: Boolean; const AStatusCode: Word); overload;`

Description Redirects to an URL informing the (302, 307) status code and the ScriptName.

Error

Declaration `public procedure Error(const AMsg: string); overload;`

Description Raises a message for action exceptions.

Error

Declaration `public procedure Error(const AMsg: string; const AArgs: array of const); overload;`

Description Raises a formatted message for action exceptions.

Stop

Declaration `public procedure Stop(const AMsg: string); overload;`

Description Stops the action showing an exception message.

Stop

Declaration `public procedure Stop(const AMsg: string; const AArgs: array of const); overload;`

Description Stops the action showing a formatted exception message.

Render

Declaration `public procedure Render(const AFileName: TFileName); overload; virtual;`

Description Writes the content of a file.

Render

Declaration `public procedure Render(const AFileName: TFileName; const AArgs: array of const); overload; virtual;`

Description Writes the content of a file passing parameters to the output.

Clear

Declaration `public procedure Clear;`

Description Clears all written content with `Write(1.4)()`, `WriteLn()`, `Render(1.4)()` etc.

Exists

Declaration `public function Exists(const AName: string): Boolean;`

Description Checks if a name exists in `fields(1.4)`.

Write

Declaration `public procedure Write(const AString: string); overload;`

Description Writes a string.

Write

Declaration `public procedure Write(const ABoolean: Boolean); overload;`

Description Writes a boolean.

Write

Declaration `public procedure Write(const AInteger: Integer); overload;`

Description Writes an integer.

Write

Declaration `public procedure Write(const AFloat: Double); overload;`

Description Writes a float.

Write

Declaration `public procedure Write(AObject: TObject); overload;`

Description Writes an object.

Write

Declaration `public procedure Write(AObject: TObject; const AIgnoredProps: TStrings); overload;`

Description Writes an object allowing to ignore properties via an array of strings.

Write

Declaration `public procedure Write(AObject: TObject; const AIgnoredProps: array of string); overload;`

Description Writes an object allowing to ignore properties via a list of strings.

Write

Declaration `public procedure Write(AStream: TStream); overload;`

Description Writes a content of stream.

Write

Declaration `public procedure Write(const AFmt: string; const AArgs: array of const); overload;`

Description Writes a formatted string.

TBrookGAction Class

Hierarchy

TBrookGAction > TBrookAction(1.4) > TBrookPersistent(3.4) > TPersistent

Description

Provides features to handle HTTP requests and responses mapping URIs to object.

Properties

Entity `public property Entity: T read FEntity write FEntity;`
Maps URI to object.

Methods

Create

Declaration `public constructor Create; overload; override;`

Description Creates an instance of a TBrookGAction(1.4) class.

Destroy

Declaration `public destructor Destroy; override;`

Description Frees an instance of `TBrookGAction(1.4)` class.

Request

Declaration `public procedure Request(ARequest: TBrookRequest; AResponse: TBrookResponse); override;`

Description Is triggered by a request of any HTTP method(1.4).

1.5 Types

TBrookActionClass

Declaration `TBrookActionClass = class of TBrookAction;`

Description Is a metaclass for `TBrookAction(1.4)` class.

Chapter 2

Unit BrookApplication

2.1 Description

Application(2.5) interface.

2.2 Uses

- BrookConsts(6)
- BrookClasses(3)
- BrookException(7)
- BrookMessages(13)
- Classes

2.3 Overview

EBrookApplication Class Handles exceptions for application(2.5).

IBrookApplication Interface Interface of the application(2.5).

BrookApp Returns the application(2.5) instance.

Application Returns the application instance maintaining compatibility with legacy code.

BrookRegisterApp Register the application(2.5).

BrookUnregisterApp Unregister the application(2.5).

2.4 Classes, Interfaces, Objects and Records

EBrookApplication Class

Hierarchy

EBrookApplication > EBrook(7.4) > Exception

Description

Handles exceptions for `application(2.5)`.

IBrookApplication Interface

Hierarchy

IBrookApplication > IBrookInterface(3.4) > IInterface

Description

Interface of the `application(2.5)`.

Properties

Terminated `public property Terminated: Boolean read GetTerminated;`
Checks whether the `application(2.5)` is terminated.

Methods

CreateForm

Declaration `public procedure CreateForm(AInstanceClass: TComponentClass; out
AReference);`

Description Creates an `instance(2.4)` of the type specified by the `AInstanceClass` parameter and assigns it to the variable given by the `AReference` parameter. The owner of the new `instance(2.4)` is the `Application(2.5)` object.

GetTerminated

Declaration `public function GetTerminated: Boolean;`

Description Gets whether the `application(2.5)` is `terminated(2.4)`.

Instance

Declaration `public function Instance: TObject;`

Description Returns the instance of broker `application(2.5)`.

Run

Declaration `public procedure Run;`

Description Initializes and runs the application(2.5).

Terminate

Declaration `public procedure Terminate;`

Description Terminates the application(2.5).

2.5 Functions and Procedures

BrookApp

Declaration `function BrookApp: IBrookApplication;`

Description Returns the application(2.5) instance.

Application

Declaration `function Application: IBrookApplication;`

Description Returns the application instance maintaining compatibility with legacy code.

BrookRegisterApp

Declaration `procedure BrookRegisterApp(AApp: IBrookApplication);`

Description Register the application(2.5).

BrookUnregisterApp

Declaration `procedure BrookUnregisterApp;`

Description Unregister the application(2.5).

Chapter 3

Unit BrookClasses

3.1 Description

Base classes.

3.2 Uses

- BrookConsts(6)
- Classes
- RtlConsts

3.3 Overview

`IBrookInterface` Interface Is the main interface for Brook.

`TBrookObject` Class Is the main object for Brook.

`TBrookInterfacedObject` Class Is the main interfaced object for Brook.

`TBrookPersistent` Class Is the main persistent for Brook.

`TBrookComponent` Class Is the main component for Brook.

`TBrookDataModule` Class Is the main data module for Brook.

3.4 Classes, Interfaces, Objects and Records

`IBrookInterface` Interface

Hierarchy

`IBrookInterface` > `IInterface`

Description

Is the main interface for Brook.

TBrookObject Class

Hierarchy

TBrookObject > TObject

Description

Is the main object for Brook.

TBrookInterfacedObject Class

Hierarchy

TBrookInterfacedObject > TInterfacedObject

Description

Is the main interfaced object for Brook.

TBrookPersistent Class

Hierarchy

TBrookPersistent > TPersistent

Description

Is the main persistent for Brook.

TBrookComponent Class

Hierarchy

TBrookComponent > TComponent

Description

Is the main component for Brook.

TBrookDataModule Class

Hierarchy

TBrookDataModule > TDataModule

Description

Is the main data module for Brook.

Methods

Create

Declaration `public constructor Create(AOwner: TComponent); override;`

3.5 Types

TBrookClass

Declaration `TBrookClass = class of TBrookObject;`

Description Is the main class for Brook.

Chapter 4

Unit BrookConfigurator

4.1 Description

Configurator class.

4.2 Uses

- BrookClasses(3)
- BrookUtils(17)
- BrookException(7)
- BrookMessages(13)
- BrookConsts(6)
- Classes
- SysUtils

4.3 Overview

EBrookConfigurator Class Handles exceptions for TBrookConfigurator(4.4).

TBrookConfigurator Class Configures objects by means of string or file.

4.4 Classes, Interfaces, Objects and Records

EBrookConfigurator Class

Hierarchy

EBrookConfigurator > EBrook(7.4) > Exception

Description

Handles exceptions for `TBrookConfigurator(4.4)`.

TBrookConfigurator Class

Hierarchy

`TBrookConfigurator` > `TBrookComponent(3.4)` > `TComponent`

Description

Configures objects by means of string or file.

Properties

- Target** `public property Target: TObject read GetTarget write SetTarget;`
Defines the object to be configured.
- Prop** `public property Prop[constAName:string]: string read GetProp write SetProp;`
Handles the `target(4.4)` properties.
- Param** `public property Param[constAName:string]: string read GetParam write SetParam;`
Handles a string list of `params(4.4)` of a configuration.
- IgnoredParams** `public property IgnoredParams: TStrings read FIgnoredParams write SetIgnoredParams;`
Ignored `params(4.4)` in the configuration.
- Params** `public property Params: TStrings read FParams write SetParams;`
Params of the configuration.
- AfterConfigure** `public property AfterConfigure: TBrookConfigureEvent read FAfterConfigure write FAfterConfigure;`
Is triggered after `configure(4.4)`.
- BeforeConfigure** `public property BeforeConfigure: TBrookConfigureEvent read FBeforeConfigure write FBeforeConfigure;`
Is triggered before `configure(4.4)`.

Methods

Create

Declaration `public constructor Create(AOwner: TComponent); override;`

Description Creates an instance of a `TBrookConfigurator(4.4)` class.

Destroy

Declaration `public destructor Destroy; override;`

Description Frees an instance of `TBrookConfigurator(4.4)` class.

Configure

Declaration `public procedure Configure;`

Description Configures the `target(4.4)` property.

4.5 Types

TBrookConfiguratorClass _____

Declaration `TBrookConfiguratorClass = class of TBrookConfigurator;`

Description Is a metaclass for `TBrookConfigurator(4.4)` class.

TBrookConfigureEvent _____

Declaration `TBrookConfigureEvent = procedure(ASender: TObject; var AHandled: Boolean)
of object;`

Description Is a type to configure event.

PBrookConfigureEvent _____

Declaration `PBrookConfigureEvent = ^TBrookConfigureEvent;`

Description Defines a pointer to the configure event.

Chapter 5

Unit BrookConstraints

5.1 Description

Constraints unit.

5.2 Uses

- BrookClasses(3)
- BrookAction(1)
- BrookRouter(15)
- BrookException(7)
- BrookMessages(13)
- Classes
- SysUtils

5.3 Overview

`E BrookConstraint Class` Handles exceptions for `T BrookConstraint`(5.4).

`T BrookCustomConstraint Class` Offers general features for constraint handling.

`T BrookConstraint Class` Offers features for constraint handling.

`T BrookConstraintItem Record` Defines a constraint item.

`T BrookCustomConstraints Class` Registers constraint classes.

`T BrookConstraints Class` Registers and executes constraint classes.

5.4 Classes, Interfaces, Objects and Records

EBrookConstraint Class

Hierarchy

EBrookConstraint > EBrook(7.4) > Exception

Description

Handles exceptions for TBrookConstraint(5.4).

Properties

Constraint public property Constraint: TBrookConstraint read FConstraint;
Offers an instance of the current constraint.

Methods

Create

Declaration public constructor Create(AConstraint: TBrookConstraint; const AMsg: string); overload;

Description Creates an instance of a EBrookConstraint(5.4) class.

CreateFmt

Declaration public constructor CreateFmt(AConstraint: TBrookConstraint; const AMsg: string; const AArgs: array of const); overload;

Description Creates an instance of EBrookConstraint(5.4) with a formatted message.

Destroy

Declaration public destructor Destroy; override;

Description Frees an instance of EBrookConstraint(5.4) class.

TBrookCustomConstraint Class

Hierarchy

TBrookCustomConstraint > TBrookObject(3.4) > TObject

Description

Offers general features for constraint handling.

Methods

Error

Declaration `public procedure Error(const AMsg: string); overload;`

Description Raises a message for constraint exceptions.

Error

Declaration `public procedure Error(const AMsg: string; const AArgs: array of const); overload;`

Description Raises a formatted message for constraint exceptions.

Stop

Declaration `public procedure Stop(const AMsg: string); overload;`

Description Stops the code execution showing an exception message.

Stop

Declaration `public procedure Stop(const AMsg: string; const AArgs: array of const); overload;`

Description Stops the code execution showing a formatted exception message.

Execute

Declaration `public procedure Execute; virtual; abstract;`

Description Offers a abstract method for the user validations.

TBrookConstraint Class ---

Hierarchy

TBrookConstraint > TBrookCustomConstraint(5.4) > TBrookObject(3.4) > TObject

Description

Offers features for constraint handling.

Properties

Action `public property Action: TBrookAction read FAction;`

Offers an instance of the current action.

Route `public property Route: TBrookRoute read FRoute;`

Offers an instance of the current route.

Methods

Create

Declaration `public constructor Create(AAction: TBrookAction; ARoute: TBrookRoute); virtual;`

Description Creates an instance of a TBrookConstraint(5.4) class.

Register

Declaration `public class procedure Register(AActionClass: TBrookActionClass);`

Description Register the constraint class.

TBrookConstraintItem Record ---

Description

Defines a constraint item.

Fields

ActionClass `public ActionClass: TBrookActionClass;`

ConstraintClass `public ConstraintClass: TBrookConstraintClass;`

TBrookCustomConstraints Class ---

Hierarchy

TBrookCustomConstraints > TBrookObject(3.4) > TObject

Description

Registers constraint classes.

Methods

Create

Declaration `public constructor Create; virtual;`

Description Creates an instance of a TBrookConstraints(5.4) class.

Destroy

Declaration `public destructor Destroy; override;`

Description Frees an instance of TBrookConstraints(5.4) class.

TBrookConstraints Class ---

Hierarchy

TBrookConstraints > TBrookCustomConstraints(5.4) > TBrookObject(3.4) > TObject

Description

Registers and executes constraint classes.

Methods

RegisterService

Declaration `public class procedure RegisterService;`

Description Registers the `service(5.4)` provided by this class.

UnregisterService

Declaration `public class procedure UnregisterService;`

Description Unregisters the `service(5.4)` provided by this class.

Service

Declaration `public class function Service: TBrookConstraints;`

Description Return an instance of this class.

Add

Declaration `public procedure Add(AActionClass: TBrookActionClass; AConstraintClass: TBrookConstraintClass);`

Description Adds a constraint item.

Execute

Declaration `public procedure Execute(AAction: TBrookAction; ARoute: TBrookRoute); virtual;`

Description Triggers the user validations implemented in the constraint.

5.5 Types

TBrookCustomConstraintClass ---

Declaration `TBrookCustomConstraintClass = class of TBrookCustomConstraint;`

Description Is a metaclass for TBrookCustomConstraint(5.4) class.

TBrookConstraintClass

Declaration TBrookConstraintClass = class of TBrookConstraint;

Description Is a metaclass for TBrookConstraint(5.4) class.

TBrookCustomConstraintsClass

Declaration TBrookCustomConstraintsClass = class of TBrookCustomConstraints;

Description Is a metaclass for TBrookCustomConstraints(5.4) class.

TBrookConstraintsClass

Declaration TBrookConstraintsClass = class of TBrookConstraints;

Description Is a metaclass for TBrookConstraints(5.4) class.

PBrookConstraintItem

Declaration PBrookConstraintItem = ^TBrookConstraintItem;

Chapter 6

Unit BrookConsts

6.1 Description

Consts unit.

6.2 Constants

ES _____

Declaration ES = '';

Description Empty string.

NS _____

Declaration NS = 'null';

Description Null string.

BR _____

Declaration BR = '
';

Description BR HTML tag.

HS _____

Declaration HS = ': ';

Description Param separator.

LE _____

Declaration LE = LineEnding;

Description Line ending.

NU _____

Declaration NU = #0;

Description NULL

HT _____

Declaration HT = #9;

Description TAB

LF _____

Declaration LF = #10;

Description LF

CR _____

Declaration CR = #13;

Description CR

CRLF _____

Declaration CRLF = CR + LF;

Description CRLF

NullDate _____

Declaration NullDate = 0;

Description Null date.

NullTime _____

Declaration NullTime = 0;

Description Null time.

NullDateTime _____

Declaration NullDateTime = 0;

Description Null datetime.

SP

Declaration SP = #32;

Description Space.

DQ

Declaration DQ = #34;

Description ”

PO

Declaration PO = #35;

Description #

PT

Declaration PT = #37;

Description %

AM

Declaration AM = #38;

Description &

AP

Declaration AP = #39;

Description ’

PS

Declaration PS = #40;

Description (

PE

Declaration PE = #41;

Description)

AK

Declaration AK = #42;

Description *

CS _____

Declaration CS = #44;

Description ,

DT _____

Declaration DT = #46;

Description .

US _____

Declaration US = #47;

Description /

CO _____

Declaration CO = #58;

Description :

SC _____

Declaration SC = #59;

Description ;

LT _____

Declaration LT = #60;

Description <

EQ _____

Declaration EQ = #61;

Description =

GT _____

Declaration GT = #62;

Description >

QU _____

Declaration QU = #63;

Description ?

AT

Declaration AT = #64;

Description @

DS

Declaration DS = #92;

Description \

LS

Declaration LS = #91;

Description [

RS

Declaration RS = #93;

Description]

BROOK_GUID

Declaration BROOK_GUID = '{D2BDD8EF-78C0-47CD-95C3-664CDDFFDAA9E}';

BROOK_APP_GUID

Declaration BROOK_APP_GUID = '{669B03B7-AA2D-4B64-AAFC-4FBD4A41267E}';

BROOK_ERROR_MASK

Declaration BROOK_ERROR_MASK = '%s: %s';

BROOK_GMT_FRMT

Declaration BROOK_GMT_FRMT = '%s, %.2d %s %d %.2d:%.2d:%.2d GMT';

BROOK_UUID_MASK

Declaration BROOK_UUID_MASK = '%.8x%.4x%.4x%.2x%.2x%.2x%.2x%.2x%.2x%.2x';

BROOK_UUID_SEP_MASK

Declaration BROOK_UUID_SEP_MASK = '%.8x-%.4x-%.4x-%.2x%.2x-%.2x%.2x%.2x%.2x%.2x';

BROOK_OVERRIDDEN_METHOD

Declaration BROOK_OVERRIDDEN_METHOD = '_METHOD';

BROOK_SESS_ID

Declaration `BROOK_SESS_ID = 'BRKSESSID';`

BROOK_SESS_PREFIX

Declaration `BROOK_SESS_PREFIX = 'brook_sess_';`

BROOK_SESS_DEFAULT_TIMEOUT

Declaration `BROOK_SESS_DEFAULT_TIMEOUT = 3 * 60;`

Description 3 minutes.

BROOK_MAX_MIME_TYPE

Declaration `BROOK_MAX_MIME_TYPE = 682;`

BROOK_MIME_TYPE

Declaration `BROOK_MIME_TYPE: array[0..BROOK_MAX_MIME_TYPE, 0..2] of string = (('3D Crossword Plugin', 'application/vnd.hzn-3d-crossword', '.x3d'), ('3GP', 'video/3gpp', '.3gp'), ('3GP2', 'video/3gpp2', '.3g2'), ('3GPP MSEQ File', 'application/vnd.mseq', '.mseq'), ('3M Post It Notes', 'application/vnd.3m.post-it-notes', '.pwn'), ('3rd Generation Partnership Project - Pic Large', 'application/vnd.3gpp.pic-bw-large', '.plb'), ('3rd Generation Partnership Project - Pic Small', 'application/vnd.3gpp.pic-bw-small', '.psb'), ('3rd Generation Partnership Project - Pic Var', 'application/vnd.3gpp.pic-bw-var', '.pvb'), ('3rd Generation Partnership Project - Transaction Capabilities Application Part', 'application/vnd.3gpp2.tcap', '.tcap'), ('7-Zip', 'application/x-7z-compressed', '.7z'), ('AbiWord', 'application/x-abiword', '.abw'), ('Ace Archive', 'application/x-ace-compressed', '.ace'), ('Active Content Compression', 'application/vnd.americandynamics.acc', '.acc'), ('ACU Cobol', 'application/vnd.acucobol', '.acu'), ('ACU Cobol', 'application/vnd.acucorp', '.atc'), ('Adaptive differential pulse-code modulation', 'audio/adpcm', '.adp'), ('Adobe (Macropedia) Authorware - Binary File', 'application/x-authorware-bin', '.aab'), ('Adobe (Macropedia) Authorware - Map', 'application/x-authorware-map', '.aam'), ('Adobe (Macropedia) Authorware - Segment File', 'application/x-authorware-seg', '.aas'), ('Adobe AIR Application', 'application/vnd.adobe.air-application-installer-package+zip', '.air'), ('Adobe Flash', 'application/x-shockwave-flash', '.swf'), ('Adobe Flex Project', 'application/vnd.adobe.fxp', '.fxp'), ('Adobe Portable Document Format', 'application/pdf', '.pdf'), ('Adobe PostScript Printer Description File Format', 'application/vnd.cups-ppd', '.ppd'), ('Adobe Shockwave Player', 'application/x-director', '.dir'), ('Adobe XML Data Package', 'application/vnd.adobe.xdp+xml', '.xdp'), ('Adobe XML Forms Data Format',`

'application/vnd.adobe.xfdf', '.xfdf'), ('Advanced Audio Coding (AAC)',
 'audio/x-aac', '.aac'), ('Ahead AIR Application',
 'application/vnd.ahead.space', '.ahead'), ('AirZip FileSECURE',
 'application/vnd.airzip.filesecure.azf', '.azf'), ('AirZip FileSECURE',
 'application/vnd.airzip.filesecure.azs', '.azs'), ('Amazon Kindle eBook
 format', 'application/vnd.amazon.ebook', '.azw'), ('AmigaDE',
 'application/vnd.amiga.ami', '.ami'), ('Andrew Toolkit',
 'application/andrew-inset', 'N/A'), ('Android Package Archive',
 'application/vnd.android.package-archive', '.apk'), ('ANSER-WEB Terminal
 Client - Certificate Issue',
 'application/vnd.anser-web-certificate-issue-initiation', '.cii'),
 ('ANSER-WEB Terminal Client - Web Funds Transfer',
 'application/vnd.anser-web-funds-transfer-initiation', '.fti'), ('Antix Game
 Player', 'application/vnd.antix.game-component', '.atx'), ('Apple Installer
 Package', 'application/vnd.apple.installer+xml', '.mpkg'), ('Applixware',
 'application/applixware', '.aw'), ('Archipelago Lesson Player',
 'application/vnd.hhe.lesson-player', '.les'), ('Arista Networks Software
 Image', 'application/vnd.aristanetworks.swi', '.swi'), ('Assembler Source
 File', 'text/x-asm', '.s'), ('Atom Publishing Protocol',
 'application/atomcat+xml', '.atomcat'), ('Atom Publishing Protocol Service
 Document', 'application/atomsvc+xml', '.atomsvc'), ('Atom Syndication
 Format', 'application/atom+xml', '.atom', '.xml'), ('Attribute Certificate',
 'application/pkix-attr-cert', '.ac'), ('Audio Interchange File Format',
 'audio/x-aiff', '.aif'), ('Audio Video Interleave (AVI)', 'video/x-msvideo',
 '.avi'), ('Audiograph', 'application/vnd.audiograph', '.aep'), ('AutoCAD
 DXF', 'image/vnd.dxf', '.dxf'), ('Autodesk Design Web Format (DWF)',
 'model/vnd.dwf', '.dwf'), ('Binary CPIO Archive', 'application/x-bcpio',
 '.bcpio'), ('Binary Data', 'application/octet-stream', '.bin'), ('Bitmap
 Image File', 'image/bmp', '.bmp'), ('BitTorrent', 'application/x-bittorrent',
 '.torrent'), ('Blackberry COD File', 'application/vnd.rim.cod', '.cod'),
 ('Blueice Research Multipass', 'application/vnd.blueice.multipass', '.mpm'),
 ('BMI Drawing Data Interchange', 'application/vnd.bmi', '.bmi'), ('Bourne
 Shell Script', 'application/x-sh', '.sh'), ('BTIF', 'image/prs.btif',
 '.btif'), ('BusinessObjects', 'application/vnd.businessobjects', '.rep'),
 ('Bzip Archive', 'application/x-bzip', '.bz'), ('Bzip2 Archive',
 'application/x-bzip2', '.bz2'), ('C Shell Script', 'application/x-csh',
 '.csh'), ('C Source File', 'text/x-c', '.c'), ('CambridgeSoft Chem Draw',
 'application/vnd.chemdraw+xml', '.cdxml'), ('Cascading Style Sheets (CSS)',
 'text/css', '.css'), ('ChemDraw eXchange file', 'chemical/x-cdx', '.cdx'),
 ('Chemical Markup Language', 'chemical/x-cml', '.cml'), ('Chemical Style
 Markup Language', 'chemical/x-csml', '.csml'), ('CIM Database',
 'application/vnd.contact.cmsg', '.cdbcmmsg'), ('Claymore Data Files',
 'application/vnd.claymore', '.cla'), ('Clonk Game',
 'application/vnd.clonk.c4group', '.c4g'), ('Close Captioning - Subtitle',
 'image/vnd.dvb.subtitle', '.sub'), ('Cloud Data Management Interface (CDMI) -
 Capability', 'application/cdmi-capability', '.cdmia'), ('Cloud Data

Management Interface (CDMI) - Container', 'application/cdmi-container',
 '.cdmic'), ('Cloud Data Management Interface (CDMI) - Domain',
 'application/cdmi-domain', '.cdmid'), ('Cloud Data Management Interface
 (CDMI) - Object', 'application/cdmi-object', '.cdmio'), ('Cloud Data
 Management Interface (CDMI) - Queue', 'application/cdmi-queue', '.cdmiq'),
 ('ClueTrust CartoMobile - Config',
 'application/vnd.cluetrust.cartomobile-config', '.c11amc'), ('ClueTrust
 CartoMobile - Config Package',
 'application/vnd.cluetrust.cartomobile-config-pkg', '.c11amz'), ('CMU Image',
 'image/x-cmu-raster', '.ras'), ('COLLADA', 'model/vnd.collada+xml', '.dae'),
 ('Comma-Separated Values', 'text/csv', '.csv'), ('Compact Pro',
 'application/mac-compactpro', '.cpt'), ('Compiled Wireless Markup Language
 (WMLC)', 'application/vnd.wap.wmlc', '.wmlc'), ('Computer Graphics Metafile',
 'image/cgm', '.cgm'), ('CoolTalk', 'x-conference/x-cooltalk', '.ice'),
 ('Corel Metafile Exchange (CMX)', 'image/x-cmx', '.cmx'), ('CorelXARA',
 'application/vnd.xara', '.xar'), ('CosmoCaller',
 'application/vnd.cosmocaller', '.cmc'), ('CPIO Archive',
 'application/x-cpio', '.cpio'), ('CrickSoftware - Clicker',
 'application/vnd.crick.clicker', '.clkx'), ('CrickSoftware - Clicker -
 Keyboard', 'application/vnd.crick.clicker.keyboard', '.clkk'),
 ('CrickSoftware - Clicker - Palette',
 'application/vnd.crick.clicker.palette', '.clkp'), ('CrickSoftware - Clicker
 - Template', 'application/vnd.crick.clicker.template', '.clkt'),
 ('CrickSoftware - Clicker - Wordbank',
 'application/vnd.crick.clicker.wordbank', '.clkw'), ('Critical Tools - PERT
 Chart EXPERT', 'application/vnd.criticaltools.wbs+xml', '.wbs'),
 ('CryptoNote', 'application/vnd.rig.cryptonote', '.cryptonote'),
 ('Crystallographic Interchange Format', 'chemical/x-cif', '.cif'),
 ('CrystalMaker Data Format', 'chemical/x-cmdf', '.cmdf'), ('CU-SeeMe',
 'application/cu-seeme', '.cu'), ('CU-Writer', 'application/prs.cww', '.cww'),
 ('Curl - Applet', 'text/vnd.curl', '.curl'), ('Curl - Detached Applet',
 'text/vnd.curl.dcurl', '.dcurl'), ('Curl - Manifest File',
 'text/vnd.curl.mcurl', '.mcurl'), ('Curl - Source Code',
 'text/vnd.curl.scurl', '.scurl'), ('CURL Applet', 'application/vnd.curl.car',
 '.car'), ('CURL Applet', 'application/vnd.curl.pcurl', '.pcurl'),
 ('CustomMenu', 'application/vnd.yellowriver-custom-menu', '.cmp'), ('Data
 Structure for the Security Suitability of Cryptographic Algorithms',
 'application/dssc+der', '.dssc'), ('Data Structure for the Security
 Suitability of Cryptographic Algorithms', 'application/dssc+xml', '.xdssc'),
 ('Debian Package', 'application/x-debian-package', '.deb'), ('DECE Audio',
 'audio/vnd.dece.audio', '.uva'), ('DECE Graphic', 'image/vnd.dece.graphic',
 '.uvi'), ('DECE High Definition Video', 'video/vnd.dece.hd', '.uvh'), ('DECE
 Mobile Video', 'video/vnd.dece.mobile', '.uvm'), ('DECE MP4',
 'video/vnd.uvu.mp4', '.uvu'), ('DECE PD Video', 'video/vnd.dece.pd',
 '.uvp'), ('DECE SD Video', 'video/vnd.dece.sd', '.uvs'), ('DECE Video',
 'video/vnd.dece.video', '.uvv'), ('Device Independent File Format (DVI)',

'application/x-dvi', '.dvi'), ('Digital Siesmograph Networks - SEED Datafiles', 'application/vnd.fdsn.seed', '.seed'), ('Digital Talking Book', 'application/x-dtbook+xml', '.dtb'), ('Digital Talking Book - Resource File', 'application/x-dtbresource+xml', '.res'), ('Digital Video Broadcasting', 'application/vnd.dvb.ait', '.ait'), ('Digital Video Broadcasting', 'application/vnd.dvb.service', '.svc'), ('Digital Winds Music', 'audio/vnd.digital-winds', '.eol'), ('DjVu', 'image/vnd.djvu', '.djvu'), ('Document Type Definition', 'application/xml-dtd', '.dtd'), ('Dolby Meridian Lossless Packing', 'application/vnd.dolby.mlp', '.mlp'), ('Doom Video Game', 'application/x-doom', '.wad'), ('DPGraph', 'application/vnd.dpgraph', '.dpg'), ('DRA Audio', 'audio/vnd.dra', '.dra'), ('DreamFactory', 'application/vnd.dreamfactory', '.dfac'), ('DTS Audio', 'audio/vnd.dts', '.dts'), ('DTS High Definition Audio', 'audio/vnd.dts.hd', '.dtshd'), ('DWG Drawing', 'image/vnd.dwg', '.dwg'), ('DynaGeo', 'application/vnd.dynageo', '.geo'), ('ECMAScript', 'application/ecmascript', '.es'), ('EcoWin Chart', 'application/vnd.ecowin.chart', '.mag'), ('EDMICS 2000', 'image/vnd.fujixerox.edmics-mmr', '.mmr'), ('EDMICS 2000', 'image/vnd.fujixerox.edmics-rlc', '.rlc'), ('Efficient XML Interchange', 'application/exi', '.exi'), ('EFI Proteus', 'application/vnd.proteus.magazine', '.mgz'), ('Electronic Publication', 'application/epub+zip', '.epub'), ('Email Message', 'message/rfc822', '.eml'), ('Enliven Viewer', 'application/vnd.enliven', '.nml'), ('Express by Infoseek', 'application/vnd.is-xpr', '.xpr'), ('eXtended Image File Format (XIFF)', 'image/vnd.xiff', '.xif'), ('Extensible Forms Description Language', 'application/vnd.xfdl', '.xfdl'), ('Extensible MultiModal Annotation', 'application/emma+xml', '.emma'), ('EZPix Secure Photo Album', 'application/vnd.ezpix-album', '.ez2'), ('EZPix Secure Photo Album', 'application/vnd.ezpix-package', '.ez3'), ('FAST Search & Transfer ASA', 'image/vnd.fst', '.fst'), ('FAST Search & Transfer ASA', 'video/vnd.fvt', '.fvt'), ('FastBid Sheet', 'image/vnd.fastbidsheet', '.fbs'), ('FCS Express Layout Link', 'application/vnd.denovo.fcselayout-link', '.fe_launch'), ('Flash Video', 'video/x-f4v', '.f4v'), ('Flash Video', 'video/x-flv', '.flv'), ('FlashPix', 'image/vnd.fpx', '.fpx'), ('FlashPix', 'image/vnd.net-fpx', '.npx'), ('FLEXSTOR', 'text/vnd.fmi.flexstor', '.flx'), ('FLI/FLC Animation Format', 'video/x-fli', '.fli'), ('FluxTime Clip', 'application/vnd.fluxtime.clip', '.ftc'), ('Forms Data Format', 'application/vnd.fdf', '.fdf'), ('Fortran Source File', 'text/x-fortran', '.f'), ('FrameMaker Interchange Format', 'application/vnd.mif', '.mif'), ('FrameMaker Normal Format', 'application/vnd.frameMaker', '.fm'), ('FreeHand MX', 'image/x-freehand', '.fh'), ('Friendly Software Corporation', 'application/vnd.fsc.weblaunch', '.fsc'), ('Frogans Player', 'application/vnd.frogans.fnc', '.fnc'), ('Frogans Player', 'application/vnd.frogans.ltf', '.ltf'), ('Fujitsu - Xerox 2D CAD Data', 'application/vnd.fujixerox.ddd', '.ddd'), ('Fujitsu - Xerox DocuWorks', 'application/vnd.fujixerox.docuworks', '.xdw'), ('Fujitsu - Xerox DocuWorks Binder', 'application/vnd.fujixerox.docuworks.binder', '.xbd'), ('Fujitsu

Oasys', 'application/vnd.fujitsu.oasys', '.oas'), ('Fujitsu Oasys',
 'application/vnd.fujitsu.oasys2', '.oa2'), ('Fujitsu Oasys',
 'application/vnd.fujitsu.oasys3', '.oa3'), ('Fujitsu Oasys',
 'application/vnd.fujitsu.oasysgp', '.fg5'), ('Fujitsu Oasys',
 'application/vnd.fujitsu.oasysprs', '.bh2'), ('FutureSplash Animator',
 'application/x-futuresplash', '.spl'), ('FuzzySheet',
 'application/vnd.fuzzysheet', '.fzs'), ('G3 Fax Image', 'image/g3fax',
 '.g3'), ('GameMaker ActiveX', 'application/vnd.gmx', '.gmx'), ('Gen-Trix
 Studio', 'model/vnd.gtw', '.gtw'), ('Genomatix Tuxedo Framework',
 'application/vnd.genomatix.tuxedo', '.txd'), ('GeoGebra',
 'application/vnd.geogebra.file', '.ggb'), ('GeoGebra',
 'application/vnd.geogebra.tool', '.ggt'), ('Geometric Description Language
 (GDL)', 'model/vnd.gdl', '.gdl'), ('GeoMetry Explorer',
 'application/vnd.geometry-explorer', '.gex'), ('GEONExT and JSXGraph',
 'application/vnd.geonext', '.gxt'), ('GeoplanW', 'application/vnd.geoplan',
 '.g2w'), ('GeospacW', 'application/vnd.geospace', '.g3w'), ('Ghostscript
 Font', 'application/x-font-ghostscript', '.gsf'), ('Glyph Bitmap Distribution
 Format', 'application/x-font-bdf', '.bdf'), ('GNU Tar Files',
 'application/x-gtar', '.gtar'), ('GNU Texinfo Document',
 'application/x-texinfo', '.texinfo'), ('Gnumeric', 'application/x-gnumeric',
 '.gnumeric'), ('Google Earth - KML', 'application/vnd.google-earth.kml+xml',
 '.kml'), ('Google Earth - Zipped KML', 'application/vnd.google-earth.kmz',
 '.kmz'), ('GrafEq', 'application/vnd.grafeq', '.gqf'), ('Graphics Interchange
 Format', 'image/gif', '.gif'), ('Graphviz', 'text/vnd.graphviz', '.gv'),
 ('Groove - Account', 'application/vnd.groove-account', '.gac'), ('Groove -
 Help', 'application/vnd.groove-help', '.ghf'), ('Groove - Identity Message',
 'application/vnd.groove-identity-message', '.gim'), ('Groove - Injector',
 'application/vnd.groove-injector', '.grv'), ('Groove - Tool Message',
 'application/vnd.groove-tool-message', '.gtm'), ('Groove - Tool Template',
 'application/vnd.groove-tool-template', '.tpl'), ('Groove - Vcard',
 'application/vnd.groove-vcard', '.vcg'), ('H.261', 'video/h261', '.h261'),
 ('H.263', 'video/h263', '.h263'), ('H.264', 'video/h264', '.h264'), ('Hewlett
 Packard Instant Delivery', 'application/vnd.hp-hpid', '.hpid'),
 ('Hewlett-Packard's WebPrintSmart', 'application/vnd.hp-hps', '.hps'),
 ('Hierarchical Data Format', 'application/x-hdf', '.hdf'), ('Hit'n'Mix',
 'audio/vnd.rip', '.rip'), ('Homebanking Computer Interface (HBCI)',
 'application/vnd.hbci', '.hbci'), ('HP Indigo Digital Press - Job Layout
 Language', 'application/vnd.hp-jlyt', '.jlyt'), ('HP Printer Command
 Language', 'application/vnd.hp-pcl', '.pcl'), ('HP-GL/2 and HP RTL',
 'application/vnd.hp-hpgl', '.hpgl'), ('HV Script',
 'application/vnd.yamaha.hv-script', '.hvs'), ('HV Voice Dictionary',
 'application/vnd.yamaha.hv-dic', '.hvd'), ('HV Voice Parameter',
 'application/vnd.yamaha.hv-voice', '.hvp'), ('Hydrostatix Master Suite',
 'application/vnd.hydrostatix.sof-data', '.sfd-hdstx'), ('Hyperstudio',
 'application/hyperstudio', '.stk'), ('Hypertext Application Language',
 'application/vnd.hal+xml', '.hal'), ('HyperText Markup Language (HTML)',

'text/html', '.html'), ('IBM DB2 Rights Manager',
 'application/vnd.ibm.rights-management', '.irm'), ('IBM Electronic Media
 Management System - Secure Container',
 'application/vnd.ibm.secure-container', '.sc'), ('iCalendar',
 'text/calendar', '.ics'), ('ICC profile', 'application/vnd.iccprofile',
 '.icc'), ('Icon Image', 'image/x-icon', '.ico'), ('igLoader',
 'application/vnd.igloader', '.igl'), ('Image Exchange Format', 'image/ief',
 '.ief'), ('ImmerVision PURE Players', 'application/vnd.immervision-ivp',
 '.ivp'), ('ImmerVision PURE Players', 'application/vnd.immervision-ivu',
 '.ivu'), ('IMS Networks', 'application/reginfo+xml', '.rif'), ('In3D - 3DML',
 'text/vnd.in3d.3dml', '.3dml'), ('In3D - 3DML', 'text/vnd.in3d.spot',
 '.spot'), ('Initial Graphics Exchange Specification (IGES)', 'model/iges',
 '.igs'), ('Interactive Geometry Software', 'application/vnd.intergeo',
 '.i2g'), ('Interactive Geometry Software Cinderella',
 'application/vnd.cinderella', '.cdy'), ('Intercon FormNet',
 'application/vnd.intercon.formnet', '.xpw'), ('International Society for
 Advancement of Cytometry', 'application/vnd.isac.fcs', '.fcs'), ('Internet
 Protocol Flow Information Export', 'application/ipfix', '.ipfix'), ('Internet
 Public Key Infrastructure - Certificate', 'application/pkix-cert', '.cer'),
 ('Internet Public Key Infrastructure - Certificate Management Protocole',
 'application/pkixcmp', '.pki'), ('Internet Public Key Infrastructure -
 Certificate Revocation Lists', 'application/pkix-crl', '.crl'), ('Internet
 Public Key Infrastructure - Certification Path', 'application/pkix-pkipath',
 '.pkipath'), ('IOCOM Visimeet', 'application/vnd.insors.igm', '.igm'), ('IP
 Unplugged Roaming Client', 'application/vnd.ipunplugged.rcprofile',
 '.rcprofile'), ('iRepository / Lucidoc Editor',
 'application/vnd.irepository.package+xml', '.irp'), ('J2ME App Descriptor',
 'text/vnd.sun.j2me.app-descriptor', '.jad'), ('Java Archive',
 'application/java-archive', '.jar'), ('Java Bytecode File',
 'application/java-vm', '.class'), ('Java Network Launching Protocol',
 'application/x-java-jnlp-file', '.jnlp'), ('Java Serialized Object',
 'application/java-serialized-object', '.ser'), ('Java Source File',
 'text/x-java-source,java', '.java'), ('JavaScript', 'application/javascript',
 '.js'), ('JavaScript Object Notation (JSON)', 'application/json', '.json'),
 ('Joda Archive', 'application/vnd.joost.joda-archive', '.joda'), ('JPEG 2000
 Compound Image File Format', 'video/jpm', '.jpm'), ('JPEG Image',
 'image/jpeg', '.jpeg, .jpg'), ('JPGVideo', 'video/jpeg', '.jpgv'),
 ('Kahootz', 'application/vnd.kahootz', '.ktz'), ('Karaoke on Chipnuts
 Chipsets', 'application/vnd.chipnuts.karaoke-mmd', '.mmd'), ('KDE KOffice
 Office Suite - Karbon', 'application/vnd.kde.karbon', '.karbon'), ('KDE
 KOffice Office Suite - KChart', 'application/vnd.kde.kchart', '.chrt'), ('KDE
 KOffice Office Suite - Kformula', 'application/vnd.kde.kformula', '.kfo'),
 ('KDE KOffice Office Suite - Kivio', 'application/vnd.kde.kivio', '.flw'),
 ('KDE KOffice Office Suite - Kontour', 'application/vnd.kde.kontour',
 '.kon'), ('KDE KOffice Office Suite - Kpresenter',
 'application/vnd.kde.kpresenter', '.kpr'), ('KDE KOffice Office Suite -

Kspread', 'application/vnd.kde.kspread', '.ksp'), ('KDE KOffice Office Suite
 - Kword', 'application/vnd.kde.kword', '.kwd'), ('Kenamea App',
 'application/vnd.kenameaapp', '.htke'), ('Kidspiration',
 'application/vnd.kidspiration', '.kia'), ('Kinar Applications',
 'application/vnd.kinar', '.kne'), ('Kodak Storyshare',
 'application/vnd.kodak-descriptor', '.sse'), ('Laser App Enterprise',
 'application/vnd.las.las+xml', '.lasxml'), ('LaTeX', 'application/x-latex',
 '.latex'), ('Life Balance - Desktop Edition',
 'application/vnd.llamagraphics.life-balance.desktop', '.lbd'), ('Life Balance
 - Exchange Format',
 'application/vnd.llamagraphics.life-balance.exchange+xml', '.lbe'),
 ('Lightspeed Audio Lab', 'application/vnd.jam', '.jam'), ('Lotus 1-2-3',
 'application/vnd.lotus-1-2-3', '.123'), ('Lotus Approach',
 'application/vnd.lotus-approach', '.apr'), ('Lotus Freelance',
 'application/vnd.lotus-freelance', '.pre'), ('Lotus Notes',
 'application/vnd.lotus-notes', '.nsf'), ('Lotus Organizer',
 'application/vnd.lotus-organizer', '.org'), ('Lotus Screencam',
 'application/vnd.lotus-screencam', '.scm'), ('Lotus Wordpro',
 'application/vnd.lotus-wordpro', '.lwp'), ('Lucent Voice',
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'application/vnd.visionary', '.vis'), ('Vivo', 'video/vnd.vivo', '.viv'),
('Voice Browser Call Control', 'application/ccxml+xml', '.ccxml'),
('VoiceXML', 'application/voicexml+xml', '.vxml'), ('WAIS Source',
'application/x-wais-source', '.src'), ('WAP Binary XML (WBXML)',
'application/vnd.wap.wbxml', '.wbxml'), ('WAP Bitmap (WBMP)',
'image/vnd.wap.wbmp', '.wbmp'), ('Waveform Audio File Format (WAV)',
'audio/x-wav', '.wav'), ('Web Distributed Authoring and Versioning',
'application/davmount+xml', '.davmount'), ('Web Open Font Format',
'application/x-font-woff', '.woff'), ('Web Services Policy',
'application/wspolicy+xml', '.wspolicy'), ('WebP Image', 'image/webp',
'.webp'), ('WebTurbo', 'application/vnd.webturbo', '.wtb'), ('Widget
Packaging and XML Configuration', 'application/widget', '.wgt'), ('WinHelp',
'application/winhelp', '.hlp'), ('Wireless Markup Language (WML)',
'text/vnd.wap.wml', '.wml'), ('Wireless Markup Language Script (WMLScript)',
'text/vnd.wap.wmlscript', '.wmls'), ('WMLScript',
'application/vnd.wap.wmlscriptc', '.wmlsc'), ('Wordperfect',
'application/vnd.wordperfect', '.wpd'), ('Worldtalk',
'application/vnd.wt.stf', '.stf'), ('WSDL - Web Services Description
Language', 'application/wsdl+xml', '.wsdl'), ('X BitMap', 'image/x-xbitmap',
'.xbm'), ('X PixMap', 'image/x-xpixmap', '.xpm'), ('X Window Dump',
'image/x-xwindowdump', '.xwd'), ('X.509 Certificate',
'application/x-x509-ca-cert', '.der'), ('Xfig', 'application/x-xfig',
'.fig'), ('XHTML - The Extensible HyperText Markup Language',
'application/xhtml+xml', '.xhtml'), ('XML - Extensible Markup Language',
'application/xml', '.xml'), ('XML Configuration Access Protocol - XCAP Diff',
'application/xcap-diff+xml', '.xdf'), ('XML Encryption Syntax and
Processing', 'application/xenc+xml', '.xenc'), ('XML Patch Framework',
'application/patch-ops-error+xml', '.xer'), ('XML Resource Lists',
'application/resource-lists+xml', '.rl'), ('XML Resource Lists',
'application/rls-services+xml', '.rs'), ('XML Resource Lists Diff',
'application/resource-lists-diff+xml', '.rld'), ('XML Transformations',
'application/xslt+xml', '.xslt'), ('XML-Binary Optimized Packaging',
'application/xop+xml', '.xop'), ('XPIInstall - Mozilla',
'application/x-xpinstall', '.xpi'), ('XSPF - XML Shareable Playlist Format',
'application/xspf+xml', '.xspf'), ('XUL - XML User Interface Language',
'application/vnd.mozilla.xul+xml', '.xul'), ('XYZ File Format',
'chemical/x-xyz', '.xyz'), ('YANG Data Modeling Language',
'application/yang', '.yang'), ('YIN (YANG - XML)', 'application/yin+xml',
'.yin'), ('Z.U.L. Geometry', 'application/vnd.zul', '.zir'), ('Zip Archive',
'application/zip', '.zip'), ('ZVUE Media Manager',
'application/vnd.handheld-entertainment+xml', '.zmm'), ('Zzazz Deck',
'application/vnd.zzazz.deck+xml', '.zaz' );

```

6.3 Variables

DefInt

Declaration DefInt: Integer = 0;

DefInt64

Declaration DefInt64: Int64 = 0;

DefBool

Declaration DefBool: Boolean = False;

DefTime

Declaration DefTime: TTime = NullTime;

DefDate

Declaration DefDate: TDate = NullDate;

DefDateTime

Declaration DefDateTime: TDateTime = NullDateTime;

DefFloat

Declaration DefFloat: Double = 0;

DefCurrency

Declaration DefCurrency: Currency = 0;

BROOK_HTTP_DAEMON_DESCRIPTION

Declaration BROOK_HTTP_DAEMON_DESCRIPTION: string = 'Brook HTTP daemon.';

BROOK_HTTP_DAEMON_DISPLAYNAME

Declaration BROOK_HTTP_DAEMON_DISPLAYNAME: string = 'Brook daemon';

BROOK_HTTP_DAEMON_NAME

Declaration BROOK_HTTP_DAEMON_NAME: string = 'BrookHttpDaemon';

BROOK_HTTP_DAEMON_CLASSNAME

Declaration BROOK_HTTP_DAEMON_CLASSNAME: string = 'TBrookHttpDaemon';

Chapter 7

Unit BrookException

7.1 Description

Exceptions classes.

7.2 Uses

- BrookConsts(6)
- SysUtils

7.3 Overview

EBrook Class Handles general exception in Brook.

EBrookHttp404 Class Handles the exception for 404 error.

EBrookHttp500 Class Handles the exception for 500 error.

7.4 Classes, Interfaces, Objects and Records

EBrook Class _____

Hierarchy

EBrook > Exception

Description

Handles general exception in Brook.

Methods

Create

Declaration `public constructor Create(AInstance: TObject; const AMsg: string); overload;`

Description Creates an instance of `EBrook(7.4)`.

Create

Declaration `public constructor Create(AClass: TClass; const AMsg: string); overload;`

Description Creates an instance of `EBrook(7.4)`.

Create

Declaration `public constructor Create(AName: string; const AMsg: string); overload;`

Description Creates an instance of `EBrook(7.4)`.

CreateFmt

Declaration `public constructor CreateFmt(AInstance: TObject; const AMsg: string; const AArgs: array of const); overload;`

Description Creates an instance of `EBrook(7.4)` with a formatted message.

CreateFmt

Declaration `public constructor CreateFmt(AClass: TClass; const AMsg: string; const AArgs: array of const); overload;`

Description Creates an instance of `EBrook(7.4)` with a formatted message.

CreateFmt

Declaration `public constructor CreateFmt(AName: string; const AMsg: string; const AArgs: array of const); overload;`

Description Creates an instance of `EBrook(7.4)` with a formatted message.

EBrookHttp404 Class ---

Hierarchy

EBrookHttp404 > EBrook(7.4) > Exception

Description

Handles the exception for 404 error.

EBrookHttp500 Class

Hierarchy

EBrookHttp500 > EBrook(7.4) > Exception

Description

Handles the exception for 500 error.

7.5 Types

EBrookClass

Declaration `EBrookClass = class of EBrook;`

Description Is a metaclass for EBrook(7.4) class.

Chapter 8

Unit BrookHttpClient

8.1 Description

HTTP client classes.

8.2 Uses

- `BrookClasses`(3)
- `BrookException`(7)
- `BrookMessages`(13)
- `BrookConsts`(6)
- `BrookHttpConsts`(9)
- `Classes`
- `SysUtils`
- `FGL`

8.3 Overview

`EBrookHttpDef` Class Handles exceptions for `TBrookHttpDef`(8.4).

`EBrookHttpDefs` Class Handles exceptions for `TBrookHttpDefs`(8.4).

`EBrookHttpClient` Class Handles exceptions for `EBrookHttpClient`(8.4).

`TBrookHttpResult` Record Information returned after a request.

`TBrookHttpDef` Class Offers general abstract features for HTTP handling.

`TBrookHttpDefs` Class Registers HTTP definitions.

`TBrookHttpClient` Class Client to perform HTTP requests.

8.4 Classes, Interfaces, Objects and Records

`EBrookHttpDef` Class ---

Hierarchy

`EBrookHttpDef` > `EBrook(7.4)` > Exception

Description

Handles exceptions for `TBrookHttpDef(8.4)`.

`EBrookHttpDefs` Class ---

Hierarchy

`EBrookHttpDefs` > `EBrook(7.4)` > Exception

Description

Handles exceptions for `TBrookHttpDefs(8.4)`.

`EBrookHttpClient` Class ---

Hierarchy

`EBrookHttpClient` > `EBrook(7.4)` > Exception

Description

Handles exceptions for `EBrookHttpClient(8.4)`.

`TBrookHttpResult` Record ---

Description

Information returned after a request.

Fields

`StatusCode` `public StatusCode: Integer;`

`ReasonPhrase` `public ReasonPhrase: string;`

`Header` `public Header: string;`

`Content` `public Content: string;`

TBrookHttpDef Class

Hierarchy

TBrookHttpDef > TBrookObject(3.4) > TObject

Description

Offers general abstract features for HTTP handling.

Properties

- ContentType** public property ContentType: string read GetContentType write SetContentType;
Content type of sending data.
- Contents** public property Contents: TStrings read GetContents;
Strings received from the request(8.4).
- Cookies** public property Cookies: TStrings read GetCookies;
Set cookies to be sent and/or received from the server.
- Document** public property Document: TStream read GetDocument;
Document received from the request(8.4).
- Headers** public property Headers: TStrings read GetHeaders;
Request(8.4) headers.
- StatusCode** public property StatusCode: Integer read GetStatusCode;
Result code after successful request(8.4).
- ReasonPhrase** public property ReasonPhrase: string read GetReasonPhrase;
Result text after successful request(8.4).
- Method** public property Method: string read GetMethod write SetMethod;
Method for requests.
- Url** public property Url: string read GetUrl write SetUrl;
URL that request(8.4) is driven to.
- Client** public property Client: TObject read GetClient;
Is the instance of the HTTP client broker.

Methods

Create

Declaration public constructor Create; virtual; abstract;

Description Creates an instance of a TBrookHttpDef(8.4) class.

Register

Declaration public class procedure Register;

Description Register the broker class.

Unregister

Declaration public class procedure Unregister;

Description Unregister the broker class.

GetLibrary

Declaration public class function GetLibrary: string; virtual; abstract;

Description Get(8.4) the broker library name, for example: FCLWeb, Synapse, LNet, Indy etc.

AddHeader

Declaration public procedure AddHeader(const AName, AValue: string); virtual; abstract;

Description Adds header, replacing an existing one if it exists.

Request

Declaration public function Request: Boolean; virtual; abstract;

Description Sends request to server.

Get

Declaration public class function Get(const AUrl: string; AResponse: TStream): Boolean; virtual; abstract;

Description Sends request(8.4) by a GET HTTP request(8.4) method(8.4).

Post

Declaration public class function Post(const AUrl: string; AResponse: TStream): Boolean; virtual; abstract;

Description Sends request(8.4) by a POST HTTP request(8.4) method(8.4).

Put

Declaration public class function Put(const AUrl: string; AResponse: TStream): Boolean; virtual; abstract;

Description Sends request(8.4) by a PUT HTTP request(8.4) method(8.4).

Delete

Declaration `public class function Delete(const AUrl: string; AResponse: TStream): Boolean; virtual; abstract;`

Description Sends request(8.4) by a DELETE HTTP request(8.4) method(8.4).

Options

Declaration `public class function Options(const AUrl: string; AResponse: TStream): Boolean; virtual; abstract;`

Description Sends request(8.4) by an OPTIONS HTTP request(8.4) method(8.4).

Head

Declaration `public class function Head(const AUrl: string; AHeaders: TStrings): Boolean; virtual; abstract;`

Description Sends request(8.4) by a HEAD HTTP request(8.4) method(8.4).

PostForm

Declaration `public class function PostForm(const AUrl: string; AFormData, AResponse: TStream): Boolean; virtual; abstract;`

Description Sends request(8.4) by a POST(8.4) HTTP request(8.4) method(8.4), passing a form-data as parameter.

PostForm

Declaration `public class function PostForm(const AUrl, AFormData: string; AResponse: TStream): Boolean; virtual; abstract;`

Description Sends request(8.4) by a POST(8.4) HTTP request(8.4) method(8.4), passing a form-data as parameter.

PutForm

Declaration `public class function PutForm(const AUrl: string; AFormData, AResponse: TStream): Boolean; virtual; abstract;`

Description Sends request(8.4) by a PUT(8.4) HTTP request(8.4) method(8.4), passing a form-data as parameter.

PutForm

Declaration `public class function PutForm(const AUrl, AFormData: string; AResponse: TStream): Boolean; virtual; abstract;`

Description Sends `request(8.4)` by a `PUT(8.4)` HTTP `request(8.4) method(8.4)`, passing a form-data as parameter.

PostFile

Declaration `public class function PostFile(const AUrl, AFieldName, AFileName: string; AFile, AResponse: TStream): Boolean; virtual; abstract;`

Description Sends `request(8.4)` by a `POST(8.4)` HTTP `request(8.4) method(8.4)`, passing a file as parameter.

PostFile

Declaration `public class function PostFile(const AUrl, AFieldName, AFileName: string; AResponse: TStream): Boolean; virtual; abstract;`

Description Sends `request(8.4)` by a `POST(8.4)` HTTP `request(8.4) method(8.4)`, passing a file as parameter.

TBrookHttpDefs Class

Hierarchy

TBrookHttpDefs > TFPGList

Description

Registers HTTP definitions.

Methods

Service

Declaration `public class function Service: TBrookHttpDefs;`

Description Registers the service provided by this class.

Find

Declaration `public function Find(const ALibrary: string): TBrookHttpDefClass;`

Description Finds a database item by its library name.

ItemByLibrary

Declaration `public function ItemByLibrary(const ALibrary: string): TBrookHttpDefClass;`

Description Returns a database item by its library name.

TBrookHttpClient Class

Hierarchy

TBrookHttpClient > TBrookObject(3.4) > TObject

Description

Client to perform HTTP requests.

Methods

Create

Declaration `public constructor Create(const ALibrary: string);`

Description Creates an instance of a TBrookHttpClient(8.4) class.

SetLibrary

Declaration `public class procedure SetLibrary(const ALibrary: string);`

Description Specifies the library to be used by this class.

Prepare

Declaration `public class procedure Prepare(out AHttp: TBrookHttpDef);`

Description Prepares an instance of TBrookHttpDef (8.4).

Get

Declaration `public class function Get(const AUrl: string; AResponse: TStream): Boolean;`

Description Sends request(8.4) by a GET HTTP request(8.4) method.

Post

Declaration `public class function Post(const AUrl: string; AResponse: TStream): Boolean;`

Description Sends request(8.4) by a POST HTTP request(8.4) method.

Put

Declaration `public class function Put(const AUrl: string; AResponse: TStream): Boolean;`

Description Sends request(8.4) by a PUT HTTP request(8.4) method.

Delete

Declaration `public class function Delete(const AUrl: string; AResponse: TStream): Boolean;`

Description Sends request(8.4) by a DELETE HTTP request(8.4) method.

Options

Declaration `public class function Options(const AUrl: string; AResponse: TStream): Boolean;`

Description Sends request(8.4) by an OPTIONS HTTP request(8.4) method.

Head

Declaration `public class function Head(const AUrl: string; AHeaders: TStrings): Boolean;`

Description Sends request(8.4) by a HEAD HTTP request(8.4) method.

PostForm

Declaration `public class function PostForm(const AUrl: string; AFormData, AResponse: TStream): Boolean;`

Description Sends request(8.4) by a POST(8.4) HTTP request(8.4) method, passing a form-data as parameter.

PostForm

Declaration `public class function PostForm(const AUrl, AFormData: string; AResponse: TStream): Boolean;`

Description Sends request(8.4) by a POST(8.4) HTTP request(8.4) method, passing a form-data as parameter.

PutForm

Declaration `public class function PutForm(const AUrl: string; AFormData, AResponse: TStream): Boolean;`

Description Sends request(8.4) by a PUT(8.4) HTTP request(8.4) method, passing a form-data as parameter.

PutForm

Declaration `public class function PutForm(const AUrl, AFormData: string; AResponse: TStream): Boolean;`

Description Sends `request(8.4)` by a `PUT(8.4)` HTTP `request(8.4)` method, passing a form-data as parameter.

PostFile

Declaration `public class function PostFile(const AUrl, AFieldName, AFileName: string; AFile, AResponse: TStream): Boolean;`

Description Sends `request(8.4)` by a `POST(8.4)` HTTP `request(8.4)` method, passing a file as parameter.

PostFile

Declaration `public class function PostFile(const AUrl, AFieldName, AFileName: string; AResponse: TStream): Boolean;`

Description Sends `request(8.4)` by a `POST(8.4)` HTTP `request(8.4)` method, passing a file as parameter.

Request

Declaration `public function Request(AHttp: TBrookHttpDef): TBrookHttpRequest;`

Description Performs the `request(8.4)`, passing a `TBrookHttpDef(8.4)` as parameter.

Request

Declaration `public function Request(const AMethod, AUrl: string): TBrookHttpRequest;`

Description Performs the `request(8.4)`, passing the method and URL as parameter.

Request

Declaration `public function Request(const AUrl: string): TBrookHttpRequest;`

Description Performs the `request`, passing URL as parameter.

8.5 Types

TBrookHttpDefClass

Declaration `TBrookHttpDefClass = class of TBrookHttpDef;`

Description Is a metaclass for `TBrookHttpDef(8.4)` class.

TBrookHttpDefsClass

Declaration `TBrookHttpDefsClass = class of TBrookHttpDefs;`

Description Is a metaclass for `TBrookHttpDefs(8.4)` class.

TBrookHttpClientClass

Declaration `TBrookHttpClientClass = class of TBrookHttpClient;`

Description Is a metaclass for `TBrookHttpClient(8.4)` class.

Chapter 9

Unit BrookHttpConsts

9.1 Description

HTTP consts unit.

9.2 Uses

- BrookConsts(6)

9.3 Constants

BROOK_HTTP_STATUS_CODE_CONTINUE _____

Declaration BROOK_HTTP_STATUS_CODE_CONTINUE = 100;

BROOK_HTTP_STATUS_CODE_SWITCHING_PROTOCOLS _____

Declaration BROOK_HTTP_STATUS_CODE_SWITCHING_PROTOCOLS = 101;

BROOK_HTTP_STATUS_CODE_OK _____

Declaration BROOK_HTTP_STATUS_CODE_OK = 200;

BROOK_HTTP_STATUS_CODE_CREATED _____

Declaration BROOK_HTTP_STATUS_CODE_CREATED = 201;

BROOK_HTTP_STATUS_CODE_ACCEPTED _____

Declaration BROOK_HTTP_STATUS_CODE_ACCEPTED = 202;

BROOK_HTTP_STATUS_CODE_NON_AUTHORITATIVE_INFORMATION _____

Declaration BROOK_HTTP_STATUS_CODE_NON_AUTHORITATIVE_INFORMATION = 203;

BROOK_HTTP_STATUS_CODE_NO_CONTENT _____

Declaration BROOK_HTTP_STATUS_CODE_NO_CONTENT = 204;

BROOK_HTTP_STATUS_CODE_RESET_CONTENT _____

Declaration BROOK_HTTP_STATUS_CODE_RESET_CONTENT = 205;

BROOK_HTTP_STATUS_CODE_PARTIAL_CONTENT _____

Declaration BROOK_HTTP_STATUS_CODE_PARTIAL_CONTENT = 206;

BROOK_HTTP_STATUS_CODE_MULTIPLE_CHOICES _____

Declaration BROOK_HTTP_STATUS_CODE_MULTIPLE_CHOICES = 300;

BROOK_HTTP_STATUS_CODE_MOVED_PERMANENTLY _____

Declaration BROOK_HTTP_STATUS_CODE_MOVED_PERMANENTLY = 301;

BROOK_HTTP_STATUS_CODE_FOUND _____

Declaration BROOK_HTTP_STATUS_CODE_FOUND = 302;

BROOK_HTTP_STATUS_CODE_SEE_OTHER _____

Declaration BROOK_HTTP_STATUS_CODE_SEE_OTHER = 303;

BROOK_HTTP_STATUS_CODE_NOT_MODIFIED _____

Declaration BROOK_HTTP_STATUS_CODE_NOT_MODIFIED = 304;

BROOK_HTTP_STATUS_CODE_USE_PROXY _____

Declaration BROOK_HTTP_STATUS_CODE_USE_PROXY = 305;

BROOK_HTTP_STATUS_CODE_TEMPORARY_REDIRECT _____

Declaration BROOK_HTTP_STATUS_CODE_TEMPORARY_REDIRECT = 307;

BROOK_HTTP_STATUS_CODE_BAD_REQUEST _____

Declaration BROOK_HTTP_STATUS_CODE_BAD_REQUEST = 400;

BROOK_HTTP_STATUS_CODE_UNAUTHORIZED _____

Declaration BROOK_HTTP_STATUS_CODE_UNAUTHORIZED = 401;

BROOK_HTTP_STATUS_CODE_PAYMENT_REQUIRED _____

Declaration BROOK_HTTP_STATUS_CODE_PAYMENT_REQUIRED = 402;

BROOK_HTTP_STATUS_CODE_FORBIDDEN _____

Declaration BROOK_HTTP_STATUS_CODE_FORBIDDEN = 403;

BROOK_HTTP_STATUS_CODE_NOT_FOUND _____

Declaration BROOK_HTTP_STATUS_CODE_NOT_FOUND = 404;

BROOK_HTTP_STATUS_CODE_METHOD_NOT_ALLOWED _____

Declaration BROOK_HTTP_STATUS_CODE_METHOD_NOT_ALLOWED = 405;

BROOK_HTTP_STATUS_CODE_NOT_ACCEPTABLE _____

Declaration BROOK_HTTP_STATUS_CODE_NOT_ACCEPTABLE = 406;

BROOK_HTTP_STATUS_CODE_PROXY_AUTHENTICATION_REQUIRED _____

Declaration BROOK_HTTP_STATUS_CODE_PROXY_AUTHENTICATION_REQUIRED = 407;

BROOK_HTTP_STATUS_CODE_REQUEST_TIMEOUT _____

Declaration BROOK_HTTP_STATUS_CODE_REQUEST_TIMEOUT = 408;

BROOK_HTTP_STATUS_CODE_CONFLICT _____

Declaration BROOK_HTTP_STATUS_CODE_CONFLICT = 409;

BROOK_HTTP_STATUS_CODE_GONE _____

Declaration BROOK_HTTP_STATUS_CODE_GONE = 410;

BROOK_HTTP_STATUS_CODE_LENGTH_REQUIRED _____

Declaration BROOK_HTTP_STATUS_CODE_LENGTH_REQUIRED = 411;

BROOK_HTTP_STATUS_CODE_PRECONDITION_FAILED _____

Declaration BROOK_HTTP_STATUS_CODE_PRECONDITION_FAILED = 412;

BROOK_HTTP_STATUS_CODE_REQUEST_ENTITY_TOO_LARGE _____

Declaration BROOK_HTTP_STATUS_CODE_REQUEST_ENTITY_TOO_LARGE = 413;

BROOK_HTTP_STATUS_CODE_REQUEST_URI_TOO_LONG _____

Declaration BROOK_HTTP_STATUS_CODE_REQUEST_URI_TOO_LONG = 414;

BROOK_HTTP_STATUS_CODE_UNSUPPORTED_MEDIA_TYPE _____

Declaration BROOK_HTTP_STATUS_CODE_UNSUPPORTED_MEDIA_TYPE = 415;

BROOK_HTTP_STATUS_CODE_REQUESTED_RANGE_NOT_SATISFIABLE

Declaration BROOK_HTTP_STATUS_CODE_REQUESTED_RANGE_NOT_SATISFIABLE = 416;

BROOK_HTTP_STATUS_CODE_EXPECTATION_FAILED _____

Declaration BROOK_HTTP_STATUS_CODE_EXPECTATION_FAILED = 417;

BROOK_HTTP_STATUS_CODE_INTERNAL_SERVER_ERROR _____

Declaration BROOK_HTTP_STATUS_CODE_INTERNAL_SERVER_ERROR = 500;

BROOK_HTTP_STATUS_CODE_NOT_IMPLEMENTED _____

Declaration BROOK_HTTP_STATUS_CODE_NOT_IMPLEMENTED = 501;

BROOK_HTTP_STATUS_CODE_BAD_GATEWAY _____

Declaration BROOK_HTTP_STATUS_CODE_BAD_GATEWAY = 502;

BROOK_HTTP_STATUS_CODE_SERVICE_UNAVAILABLE _____

Declaration BROOK_HTTP_STATUS_CODE_SERVICE_UNAVAILABLE = 503;

BROOK_HTTP_STATUS_CODE_GATEWAY_TIMEOUT _____

Declaration BROOK_HTTP_STATUS_CODE_GATEWAY_TIMEOUT = 504;

BROOK_HTTP_STATUS_CODE_HTTP_VERSION_NOT_SUPPORTED _____

Declaration BROOK_HTTP_STATUS_CODE_HTTP_VERSION_NOT_SUPPORTED = 505;

BROOK_HTTP_REASON_PHRASE_CONTINUE _____

Declaration BROOK_HTTP_REASON_PHRASE_CONTINUE = 'Continue';

BROOK_HTTP_REASON_PHRASE_SWITCHING_PROTOCOLS _____

Declaration BROOK_HTTP_REASON_PHRASE_SWITCHING_PROTOCOLS = 'Switching Protocols';

BROOK_HTTP_REASON_PHRASE_OK _____

Declaration BROOK_HTTP_REASON_PHRASE_OK = 'OK';

BROOK_HTTP_REASON_PHRASE_CREATED _____

Declaration BROOK_HTTP_REASON_PHRASE_CREATED = 'Created';

BROOK_HTTP_REASON_PHRASE_ACCEPTED _____

Declaration BROOK_HTTP_REASON_PHRASE_ACCEPTED = 'Accepted';

BROOK_HTTP_REASON_PHRASE_NON_AUTHORITATIVE_INFORMATION

Declaration BROOK_HTTP_REASON_PHRASE_NON_AUTHORITATIVE_INFORMATION = 'Non-Authoritative Information';

BROOK_HTTP_REASON_PHRASE_NO_CONTENT _____

Declaration BROOK_HTTP_REASON_PHRASE_NO_CONTENT = 'No Content';

BROOK_HTTP_REASON_PHRASE_RESET_CONTENT _____

Declaration BROOK_HTTP_REASON_PHRASE_RESET_CONTENT = 'Reset Content';

BROOK_HTTP_REASON_PHRASE_PARTIAL_CONTENT _____

Declaration BROOK_HTTP_REASON_PHRASE_PARTIAL_CONTENT = 'Partial Content';

BROOK_HTTP_REASON_PHRASE_MULTIPLE_CHOICES _____

Declaration BROOK_HTTP_REASON_PHRASE_MULTIPLE_CHOICES = 'Multiple Choices';

BROOK_HTTP_REASON_PHRASE_MOVED_PERMANENTLY _____

Declaration BROOK_HTTP_REASON_PHRASE_MOVED_PERMANENTLY = 'Moved Permanently';

BROOK_HTTP_REASON_PHRASE_FOUND _____

Declaration BROOK_HTTP_REASON_PHRASE_FOUND = 'Found';

BROOK_HTTP_REASON_PHRASE_SEE_OTHER _____

Declaration BROOK_HTTP_REASON_PHRASE_SEE_OTHER = 'See Other';

BROOK_HTTP_REASON_PHRASE_NOT_MODIFIED _____

Declaration `BROOK_HTTP_REASON_PHRASE_NOT_MODIFIED = 'Not Modified';`

BROOK_HTTP_REASON_PHRASE_USE_PROXY _____

Declaration `BROOK_HTTP_REASON_PHRASE_USE_PROXY = 'Use Proxy';`

BROOK_HTTP_REASON_PHRASE_TEMPORARY_REDIRECT _____

Declaration `BROOK_HTTP_REASON_PHRASE_TEMPORARY_REDIRECT = 'Temporary Redirect';`

BROOK_HTTP_REASON_PHRASE_BAD_REQUEST _____

Declaration `BROOK_HTTP_REASON_PHRASE_BAD_REQUEST = 'Bad Request';`

BROOK_HTTP_REASON_PHRASE_UNAUTHORIZED _____

Declaration `BROOK_HTTP_REASON_PHRASE_UNAUTHORIZED = 'Unauthorized';`

BROOK_HTTP_REASON_PHRASE_PAYMENT_REQUIRED _____

Declaration `BROOK_HTTP_REASON_PHRASE_PAYMENT_REQUIRED = 'Payment Required';`

BROOK_HTTP_REASON_PHRASE_FORBIDDEN _____

Declaration `BROOK_HTTP_REASON_PHRASE_FORBIDDEN = 'Forbidden';`

BROOK_HTTP_REASON_PHRASE_NOT_FOUND _____

Declaration `BROOK_HTTP_REASON_PHRASE_NOT_FOUND = 'Not Found';`

BROOK_HTTP_REASON_PHRASE_METHOD_NOT_ALLOWED _____

Declaration `BROOK_HTTP_REASON_PHRASE_METHOD_NOT_ALLOWED = 'Method Not Allowed';`

BROOK_HTTP_REASON_PHRASE_NOT_ACCEPTABLE _____

Declaration `BROOK_HTTP_REASON_PHRASE_NOT_ACCEPTABLE = 'Not Acceptable';`

BROOK_HTTP_REASON_PHRASE_PROXY_AUTHENTICATION_REQUIRED

Declaration `BROOK_HTTP_REASON_PHRASE_PROXY_AUTHENTICATION_REQUIRED = 'Proxy Authentication Required';`

BROOK_HTTP_REASON_PHRASE_REQUEST_TIMEOUT _____

Declaration `BROOK_HTTP_REASON_PHRASE_REQUEST_TIMEOUT = 'Request Timeout';`

BROOK_HTTP_REASON_PHRASE_CONFLICT _____

Declaration BROOK_HTTP_REASON_PHRASE_CONFLICT = 'Conflict';

BROOK_HTTP_REASON_PHRASE_GONE _____

Declaration BROOK_HTTP_REASON_PHRASE_GONE = 'Gone';

BROOK_HTTP_REASON_PHRASE_LENGTH_REQUIRED _____

Declaration BROOK_HTTP_REASON_PHRASE_LENGTH_REQUIRED = 'Length Required';

BROOK_HTTP_REASON_PHRASE_PRECONDITION_FAILED _____

Declaration BROOK_HTTP_REASON_PHRASE_PRECONDITION_FAILED = 'Precondition Failed';

BROOK_HTTP_REASON_PHRASE_REQUEST_ENTITY_TOO_LARGE _____

Declaration BROOK_HTTP_REASON_PHRASE_REQUEST_ENTITY_TOO_LARGE = 'Request Entity Too Large';

BROOK_HTTP_REASON_PHRASE_REQUEST_URI_TOO_LONG _____

Declaration BROOK_HTTP_REASON_PHRASE_REQUEST_URI_TOO_LONG = 'Request-URI Too Long';

BROOK_HTTP_REASON_PHRASE_UNSUPPORTED_MEDIA_TYPE _____

Declaration BROOK_HTTP_REASON_PHRASE_UNSUPPORTED_MEDIA_TYPE = 'Unsupported Media Type';

BROOK_HTTP_REASON_PHRASE_REQUESTED_RANGE_NOT_SATISFIABLE

Declaration BROOK_HTTP_REASON_PHRASE_REQUESTED_RANGE_NOT_SATISFIABLE = 'Requested Range Not Satisfiable';

BROOK_HTTP_REASON_PHRASE_EXPECTATION_FAILED _____

Declaration BROOK_HTTP_REASON_PHRASE_EXPECTATION_FAILED = 'Expectation Failed';

BROOK_HTTP_REASON_PHRASE_INTERNAL_SERVER_ERROR _____

Declaration BROOK_HTTP_REASON_PHRASE_INTERNAL_SERVER_ERROR = 'Internal Server Error';

BROOK_HTTP_REASON_PHRASE_NOT_IMPLEMENTED _____

Declaration BROOK_HTTP_REASON_PHRASE_NOT_IMPLEMENTED = 'Not Implemented';

BROOK_HTTP_REASON_PHRASE_BAD_GATEWAY _____

Declaration BROOK_HTTP_REASON_PHRASE_BAD_GATEWAY = 'Bad Gateway';

BROOK_HTTP_REASON_PHRASE_SERVICE_UNAVAILABLE _____

Declaration BROOK_HTTP_REASON_PHRASE_SERVICE_UNAVAILABLE = 'Service Unavailable';

BROOK_HTTP_REASON_PHRASE_GATEWAY_TIMEOUT _____

Declaration BROOK_HTTP_REASON_PHRASE_GATEWAY_TIMEOUT = 'Gateway Timeout';

BROOK_HTTP_REASON_PHRASE_HTTP_VERSION_NOT_SUPPORTED _____

Declaration BROOK_HTTP_REASON_PHRASE_HTTP_VERSION_NOT_SUPPORTED = 'HTTP Version Not Supported';

BROOK_HTTP_REQUEST_METHOD_GET _____

Declaration BROOK_HTTP_REQUEST_METHOD_GET = 'GET';

BROOK_HTTP_REQUEST_METHOD_POST _____

Declaration BROOK_HTTP_REQUEST_METHOD_POST = 'POST';

BROOK_HTTP_REQUEST_METHOD_PUT _____

Declaration BROOK_HTTP_REQUEST_METHOD_PUT = 'PUT';

BROOK_HTTP_REQUEST_METHOD_DELETE _____

Declaration BROOK_HTTP_REQUEST_METHOD_DELETE = 'DELETE';

BROOK_HTTP_REQUEST_METHOD_HEAD _____

Declaration BROOK_HTTP_REQUEST_METHOD_HEAD = 'HEAD';

BROOK_HTTP_REQUEST_METHOD_OPTIONS _____

Declaration BROOK_HTTP_REQUEST_METHOD_OPTIONS = 'OPTIONS';

BROOK_HTTP_REQUEST_METHOD_PATCH _____

Declaration BROOK_HTTP_REQUEST_METHOD_PATCH = 'PATCH';

BROOK_HTTP_REQUEST_METHOD_PROPFIND _____

Declaration BROOK_HTTP_REQUEST_METHOD_PROPFIND = 'PROPFIND';

BROOK_HTTP_REQUEST_METHOD_PROPPATCH _____

Declaration BROOK_HTTP_REQUEST_METHOD_PROPPATCH = 'PROPPATCH';

BROOK_HTTP_REQUEST_METHOD_COPY _____

Declaration BROOK_HTTP_REQUEST_METHOD_COPY = 'COPY';

BROOK_HTTP_REQUEST_METHOD_MOVE _____

Declaration BROOK_HTTP_REQUEST_METHOD_MOVE = 'MOVE';

BROOK_HTTP_REQUEST_METHOD_MKCOL _____

Declaration BROOK_HTTP_REQUEST_METHOD_MKCOL = 'MKCOL';

BROOK_HTTP_REQUEST_METHOD_TRACE _____

Declaration BROOK_HTTP_REQUEST_METHOD_TRACE = 'TRACE';

BROOK_HTTP_REQUEST_METHOD_LOCK _____

Declaration BROOK_HTTP_REQUEST_METHOD_LOCK = 'LOCK';

BROOK_HTTP_REQUEST_METHOD_UNLOCK _____

Declaration BROOK_HTTP_REQUEST_METHOD_UNLOCK = 'UNLOCK';

BROOK_HTTP_HEADER_CACHE_CONTROL _____

Declaration BROOK_HTTP_HEADER_CACHE_CONTROL = 'Cache-Control';

BROOK_HTTP_HEADER_CONTENT_DESCRIPTION _____

Declaration BROOK_HTTP_HEADER_CONTENT_DESCRIPTION = 'Content-Description';

BROOK_HTTP_HEADER_CONTENT_DISPOSITION _____

Declaration BROOK_HTTP_HEADER_CONTENT_DISPOSITION = 'Content-Disposition';

BROOK_HTTP_HEADER_ETAG _____

Declaration BROOK_HTTP_HEADER_ETAG = 'ETag';

BROOK_HTTP_HEADER_STATUS _____

Declaration BROOK_HTTP_HEADER_STATUS = 'Status';

BROOK_HTTP_HEADER_TRANSFER_ENCODING _____

Declaration BROOK_HTTP_HEADER_TRANSFER_ENCODING = 'Transfer-Encoding';

BROOK_HTTP_HEADER_X_POWERED_BY _____

Declaration BROOK_HTTP_HEADER_X_POWERED_BY = 'X-Powered-By';

BROOK_HTTP_HEADER_CHARSET _____

Declaration BROOK_HTTP_HEADER_CHARSET = '; charset=';

BROOK_HTTP_CONTENT_TYPE_TEXT_PLAIN _____

Declaration BROOK_HTTP_CONTENT_TYPE_TEXT_PLAIN = 'text/plain';

BROOK_HTTP_CONTENT_TYPE_TEXT_HTML _____

Declaration BROOK_HTTP_CONTENT_TYPE_TEXT_HTML = 'text/html';

BROOK_HTTP_CONTENT_TYPE_TEXT_CSS _____

Declaration BROOK_HTTP_CONTENT_TYPE_TEXT_CSS = 'text/css';

BROOK_HTTP_CONTENT_TYPE_TEXT_XML _____

Declaration BROOK_HTTP_CONTENT_TYPE_TEXT_XML = 'text/xml';

BROOK_HTTP_CONTENT_TYPE_TEXT_CVS _____

Declaration BROOK_HTTP_CONTENT_TYPE_TEXT_CVS = 'text/cvs';

BROOK_HTTP_CONTENT_TYPE_TEXT_RICHTEXT _____

Declaration BROOK_HTTP_CONTENT_TYPE_TEXT_RICHTEXT = 'text/richtext';

BROOK_HTTP_CONTENT_TYPE_TEXT_RTF _____

Declaration BROOK_HTTP_CONTENT_TYPE_TEXT_RTF = 'text/rtf';

BROOK_HTTP_CONTENT_TYPE_MULTIPART_FORM_DATA _____

Declaration BROOK_HTTP_CONTENT_TYPE_MULTIPART_FORM_DATA = 'multipart/form-data';

BROOK_HTTP_CONTENT_TYPE_MULTIPART_FORM_DATA_BOUNDARY

Declaration BROOK_HTTP_CONTENT_TYPE_MULTIPART_FORM_DATA_BOUNDARY =
BROOK_HTTP_CONTENT_TYPE_MULTIPART_FORM_DATA + '; boundary=';

BROOK_HTTP_CONTENT_TYPE_APP_JSON _____

Declaration BROOK_HTTP_CONTENT_TYPE_APP_JSON = 'application/json';

BROOK_HTTP_CONTENT_TYPE_APP_XML _____

Declaration BROOK_HTTP_CONTENT_TYPE_APP_XML = 'application/xml';

BROOK_HTTP_CONTENT_TYPE_APP_RDF_XML _____

Declaration BROOK_HTTP_CONTENT_TYPE_APP_RDF_XML = 'application/rdf+xml';

BROOK_HTTP_CONTENT_TYPE_APP_X_WWW_FORM_URLENCODED _____

Declaration BROOK_HTTP_CONTENT_TYPE_APP_X_WWW_FORM_URLENCODED =
'application/x-www-form-urlencoded';

BROOK_HTTP_CONTENT_TYPE_APP_JAVASCRIPT _____

Declaration BROOK_HTTP_CONTENT_TYPE_APP_JAVASCRIPT = 'application/javascript';

BROOK_HTTP_CONTENT_TYPE_APP_OCTET_STREAM _____

Declaration BROOK_HTTP_CONTENT_TYPE_APP_OCTET_STREAM = 'application/octet-stream';

BROOK_HTTP_CONTENT_TYPE_APP_PDF _____

Declaration BROOK_HTTP_CONTENT_TYPE_APP_PDF = 'application/pdf';

BROOK_HTTP_CONTENT_TYPE_APP_ZIP _____

Declaration BROOK_HTTP_CONTENT_TYPE_APP_ZIP = 'application/zip';

BROOK_HTTP_CONTENT_TYPE_APP_MSWORD _____

Declaration BROOK_HTTP_CONTENT_TYPE_APP_MSWORD = 'application/msword';

BROOK_HTTP_CONTENT_TYPE_APP_MS_EXCEL _____

Declaration BROOK_HTTP_CONTENT_TYPE_APP_MS_EXCEL = 'application/vnd.ms-excel';

BROOK_HTTP_CONTENT_TYPE_APP_MS_POWERPOINT _____

Declaration BROOK_HTTP_CONTENT_TYPE_APP_MS_POWERPOINT = 'application/vnd.ms-powerpoint';

BROOK_HTTP_CONTENT_TYPE_APP_MP4 _____

Declaration BROOK_HTTP_CONTENT_TYPE_APP_MP4 = 'application/mp4';

BROOK_HTTP_CONTENT_TYPE_APP_MPEG4_GENERIC _____

Declaration BROOK_HTTP_CONTENT_TYPE_APP_MPEG4_GENERIC = 'application/mpeg4-generic';

BROOK_HTTP_CONTENT_TYPE_IMAGE_PNG _____

Declaration BROOK_HTTP_CONTENT_TYPE_IMAGE_PNG = 'image/png';

BROOK_HTTP_CONTENT_TYPE_IMAGE_JPEG _____

Declaration BROOK_HTTP_CONTENT_TYPE_IMAGE_JPEG = 'image/jpeg';

BROOK_HTTP_CONTENT_TYPE_IMAGE_GIF _____

Declaration BROOK_HTTP_CONTENT_TYPE_IMAGE_GIF = 'image/gif';

BROOK_HTTP_CONTENT_TYPE_IMAGE_TIFF _____

Declaration BROOK_HTTP_CONTENT_TYPE_IMAGE_TIFF = 'image/tiff';

BROOK_HTTP_CONTENT_TYPE_AUDIO_MPEG _____

Declaration BROOK_HTTP_CONTENT_TYPE_AUDIO_MPEG = 'audio/mpeg';

BROOK_HTTP_CONTENT_TYPE_VIDEO_MPEG _____

Declaration BROOK_HTTP_CONTENT_TYPE_VIDEO_MPEG = 'video/mpeg';

BROOK_HTTP_CONTENT_TYPE_VIDEO_QUICKTIME _____

Declaration BROOK_HTTP_CONTENT_TYPE_VIDEO_QUICKTIME = 'video/quicktime';

BROOK_HTTP_CACHE_CONTROL_NO_CACHE _____

Declaration BROOK_HTTP_CACHE_CONTROL_NO_CACHE = 'no-cache';

BROOK_HTTP_CACHE_CONTROL_NO_STORE _____

Declaration BROOK_HTTP_CACHE_CONTROL_NO_STORE = 'no-store';

BROOK_HTTP_CACHE_CONTROL_MAX_AGE _____

Declaration BROOK_HTTP_CACHE_CONTROL_MAX_AGE = 'max-age=';

BROOK_HTTP_CACHE_CONTROL_MAX_STALE _____

Declaration BROOK_HTTP_CACHE_CONTROL_MAX_STALE = 'max-stale';

BROOK_HTTP_CACHE_CONTROL_MIN_FRESH _____

Declaration BROOK_HTTP_CACHE_CONTROL_MIN_FRESH = 'min-fresh';

BROOK_HTTP_CACHE_CONTROL_NO_TRANSFORM _____

Declaration `BROOK_HTTP_CACHE_CONTROL_NO_TRANSFORM = 'no-transform';`

BROOK_HTTP_CACHE_CONTROL_ONLY_IF_CACHED _____

Declaration `BROOK_HTTP_CACHE_CONTROL_ONLY_IF_CACHED = 'only-if-cached';`

BROOK_HTTP_CACHE_CONTROL_CACHE_EXTENSION _____

Declaration `BROOK_HTTP_CACHE_CONTROL_CACHE_EXTENSION = 'cache-extension';`

BROOK_HTTP_CACHE_CONTROL_PUBLIC _____

Declaration `BROOK_HTTP_CACHE_CONTROL_PUBLIC = 'public';`

BROOK_HTTP_CACHE_CONTROL_PRIVATE _____

Declaration `BROOK_HTTP_CACHE_CONTROL_PRIVATE = 'private';`

BROOK_HTTP_CACHE_CONTROL_MUST_REVALIDATE _____

Declaration `BROOK_HTTP_CACHE_CONTROL_MUST_REVALIDATE = 'must-revalidate';`

BROOK_HTTP_CACHE_CONTROL_PROXY_REVALIDATE _____

Declaration `BROOK_HTTP_CACHE_CONTROL_PROXY_REVALIDATE = 'proxy-revalidate';`

BROOK_HTTP_CACHE_CONTROL_S_MAXAGE _____

Declaration `BROOK_HTTP_CACHE_CONTROL_S_MAXAGE = 's-maxage';`

BROOK_HTTP_CONTENT_DISPOSITION_INLINE _____

Declaration `BROOK_HTTP_CONTENT_DISPOSITION_INLINE = 'inline';`

BROOK_HTTP_CONTENT_DISPOSITION_ATTACHMENT _____

Declaration `BROOK_HTTP_CONTENT_DISPOSITION_ATTACHMENT = 'attachment';`

BROOK_HTTP_CONTENT_ENCODING_DEFLATE _____

Declaration `BROOK_HTTP_CONTENT_ENCODING_DEFLATE = 'deflate';`

BROOK_HTTP_CONTENT_ENCODING_GZIP _____

Declaration `BROOK_HTTP_CONTENT_ENCODING_GZIP = 'gzip';`

BROOK_HTTP_CONTENT_ENCODING_SDCH _____

Declaration BROOK_HTTP_CONTENT_ENCODING_SDCH = 'sdch';

BROOK_HTTP_CONTENT_ENCODING_X_GZIP _____

Declaration BROOK_HTTP_CONTENT_ENCODING_X_GZIP = 'x-gzip';

BROOK_HTTP_TRANSFER_ENCODING_CHUNKED _____

Declaration BROOK_HTTP_TRANSFER_ENCODING_CHUNKED = 'chunked';

BROOK_HTTP_CHARSET_ISO_8859_1 _____

Declaration BROOK_HTTP_CHARSET_ISO_8859_1 = 'iso-8859-1';

BROOK_HTTP_CHARSET_UTF_8 _____

Declaration BROOK_HTTP_CHARSET_UTF_8 = 'utf-8';

BROOK_SRV_ENV_DOCUMENT_ROOT _____

Declaration BROOK_SRV_ENV_DOCUMENT_ROOT = 'DOCUMENT_ROOT';

BROOK_SRV_ENV_SERVER_ADDR _____

Declaration BROOK_SRV_ENV_SERVER_ADDR = 'SERVER_ADDR';

BROOK_SRV_ENV_SERVER_ADMIN _____

Declaration BROOK_SRV_ENV_SERVER_ADMIN = 'SERVER_ADMIN';

BROOK_SRV_ENV_SERVER_SOFTWARE _____

Declaration BROOK_SRV_ENV_SERVER_SOFTWARE = 'SERVER_SOFTWARE';

BROOK_SRV_ENV_SERVER_NAME _____

Declaration BROOK_SRV_ENV_SERVER_NAME = 'SERVER_NAME';

BROOK_SRV_ENV_GATEWAY_INTERFACE _____

Declaration BROOK_SRV_ENV_GATEWAY_INTERFACE = 'GATEWAY_INTERFACE';

BROOK_SRV_ENV_SERVER_PROTOCOL _____

Declaration BROOK_SRV_ENV_SERVER_PROTOCOL = 'SERVER_PROTOCOL';

BROOK_SRV_ENV_SERVER_PORT _____

Declaration BROOK_SRV_ENV_SERVER_PORT = 'SERVER_PORT';

BROOK_SRV_ENV_REQUEST_METHOD _____

Declaration BROOK_SRV_ENV_REQUEST_METHOD = 'REQUEST_METHOD';

BROOK_SRV_ENV_REQUEST_URI _____

Declaration BROOK_SRV_ENV_REQUEST_URI = 'REQUEST_URI';

BROOK_SRV_ENV_PATH_INFO _____

Declaration BROOK_SRV_ENV_PATH_INFO = 'PATH_INFO';

BROOK_SRV_ENV_PATH_TRANSLATED _____

Declaration BROOK_SRV_ENV_PATH_TRANSLATED = 'PATH_TRANSLATED';

BROOK_SRV_ENV_SCRIPT_FILENAME _____

Declaration BROOK_SRV_ENV_SCRIPT_FILENAME = 'SCRIPT_FILENAME';

BROOK_SRV_ENV_SCRIPT_NAME _____

Declaration BROOK_SRV_ENV_SCRIPT_NAME = 'SCRIPT_NAME';

BROOK_SRV_ENV_QUERY_STRING _____

Declaration BROOK_SRV_ENV_QUERY_STRING = 'QUERY_STRING';

BROOK_SRV_ENV_REMOTE_HOST _____

Declaration BROOK_SRV_ENV_REMOTE_HOST = 'REMOTE_HOST';

BROOK_SRV_ENV_REMOTE_ADDR _____

Declaration BROOK_SRV_ENV_REMOTE_ADDR = 'REMOTE_ADDR';

BROOK_SRV_ENV_REMOTE_PORT _____

Declaration BROOK_SRV_ENV_REMOTE_PORT = 'REMOTE_PORT';

BROOK_SRV_ENV_AUTH_TYPE _____

Declaration BROOK_SRV_ENV_AUTH_TYPE = 'AUTH_TYPE';

BROOK_SRV_ENV_REMOTE_USER _____

Declaration BROOK_SRV_ENV_REMOTE_USER = 'REMOTE_USER';

BROOK_SRV_ENV_REMOTE_IDENT _____

Declaration BROOK_SRV_ENV_REMOTE_IDENT = 'REMOTE_IDENT';

BROOK_SRV_ENV_CONTENT_TYPE _____

Declaration BROOK_SRV_ENV_CONTENT_TYPE = 'CONTENT_TYPE';

BROOK_SRV_ENV_CONTENT_LENGTH _____

Declaration BROOK_SRV_ENV_CONTENT_LENGTH = 'CONTENT_LENGTH';

BROOK_SRV_ENV_X_FORWARDED_FOR _____

Declaration BROOK_SRV_ENV_X_FORWARDED_FOR = 'X_FORWARDED_FOR';

BROOK_CLT_ENV_HTTP_COOKIE _____

Declaration BROOK_CLT_ENV_HTTP_COOKIE = 'HTTP_COOKIE';

BROOK_CLT_ENV_HTTP_REFERER _____

Declaration BROOK_CLT_ENV_HTTP_REFERER = 'HTTP_REFERER';

BROOK_CLT_ENV_HTTP_USER_AGENT _____

Declaration BROOK_CLT_ENV_HTTP_USER_AGENT = 'HTTP_USER_AGENT';

BROOK_CLT_ENV_HTTP_IF_MODIFIED_SINCE _____

Declaration BROOK_CLT_ENV_HTTP_IF_MODIFIED_SINCE = 'HTTP_IF_MODIFIED_SINCE';

BROOK_CLT_ENV_HTTP_HOST _____

Declaration BROOK_CLT_ENV_HTTP_HOST = 'HTTP_HOST';

BROOK_CLT_ENV_HTTP_CONNECTION _____

Declaration BROOK_CLT_ENV_HTTP_CONNECTION = 'HTTP_CONNECTION';

BROOK_CLT_ENV_HTTP_CACHE_CONTROL _____

Declaration BROOK_CLT_ENV_HTTP_CACHE_CONTROL = 'HTTP_CACHE_CONTROL';

BROOK_CLT_ENV_HTTP_ACCEPT _____

Declaration BROOK_CLT_ENV_HTTP_ACCEPT = 'HTTP_ACCEPT';

BROOK_CLT_ENV_HTTP_ACCEPT_ENCODING _____

Declaration BROOK_CLT_ENV_HTTP_ACCEPT_ENCODING = 'HTTP_ACCEPT_ENCODING';

BROOK_CLT_ENV_HTTP_ACCEPT_LANGUAGE _____

Declaration BROOK_CLT_ENV_HTTP_ACCEPT_LANGUAGE = 'HTTP_ACCEPT_LANGUAGE';

BROOK_CLT_ENV_HTTP_ACCEPT_CHARSET _____

Declaration BROOK_CLT_ENV_HTTP_ACCEPT_CHARSET = 'HTTP_ACCEPT_CHARSET';

BROOK_CLT_ENV_HTTP_IF_NONE_MATCH _____

Declaration BROOK_CLT_ENV_HTTP_IF_NONE_MATCH = 'HTTP_IF_NONE_MATCH';

BROOK_CLT_ENV_HTTP_X_REQUESTED_WITH _____

Declaration BROOK_CLT_ENV_HTTP_X_REQUESTED_WITH = 'HTTP_X_REQUESTED_WITH';

BROOK_HTTP_RESPONSE_TEMPLATE_NOT_FOUND _____

Declaration BROOK_HTTP_RESPONSE_TEMPLATE_NOT_FOUND = '<html><head><title>Page not found</title></head><body>' + '<h1>404 - Page not found</h1></body></html>';

BROOK_HTTP_RESPONSE_TEMPLATE_INTERNAL_SERVER_ERROR _____

Declaration BROOK_HTTP_RESPONSE_TEMPLATE_INTERNAL_SERVER_ERROR = '<html><head><title>Internal server error</title></head><body>' + '<h1>500 - Internal server error</h1>' + '<p style="color: red;">@error</p>' + '</body></html>';

9.4 Variables

BROOK_HTTP_CLIENT_DEFAULT_LIBRARY _____

Declaration BROOK_HTTP_CLIENT_DEFAULT_LIBRARY: string = ES;

Chapter 10

Unit BrookHttpDefs

10.1 Description

HttpDefs classes.

10.2 Uses

- HttpDefs

10.3 Types

TBrookRequest

Declaration TBrookRequest = TRequest;

Description Alias to TRequest.

TBrookResponse

Declaration TBrookResponse = TResponse;

Description Alias to TResponse.

TBrookUploadedFile

Declaration TBrookUploadedFile = TUploadedFile;

Description Alias to TUploadedFile.

TBrookUploadedFiles

Declaration TBrookUploadedFiles = TUploadedFiles;

Description Alias to TUploadedFiles.

TBrookCookie

Declaration TBrookCookie = TCookie;

Description Alias to TCookie.

TBrookCookies

Declaration TBrookCookies = TCookies;

Description Alias to TCookies.

Chapter 11

Unit BrookHttpUtils

11.1 Description

HTTP utilities unit.

11.2 Uses

- `BrookHttpClient`(8)
- `BrookMessages`(13)
- `BrookHttpConsts`(9)
- `BrookConsts`(6)
- `BrookUtils`(17)
- `HttpDefs`
- `SysUtils`

11.3 Overview

`BrookDateTimeToGMT` Converts `TDateTime` to a GMT format.

`BrookSameUrl` Compare two URLs ignoring a possible final slash.

`BrookStatusCodeToReasonPhrase` Returns the reason phrase corresponding to a status code.

`BrookReasonPhraseToStatusCode` Returns the status code corresponding to a reason phrase.

`BrookGetAcceptEncodingSet` Returns a set of HTTP `AcceptEncoding` header.

`BrookGetAcceptEncoding` Returns a string of HTTP `AcceptEncoding`.

BrookMimeTypeFromFileExt Returns a MIME type by file extension.

BrookMimeTypeFromFileName Returns a MIME type by file name.

BrookFileExtFromMimeType Returns a file extension by MIME type.

BrookExtractUrlFileName Extracts the file name of an URL.

BrookExtractUrlFileName Extracts the file name of an URL and escapes it.

BrookRequestMethodToStr Returns the string corresponding to a `TBrookRequestMethod(17.6)`.

BrookStrToRequestMethod Returns the `TBrookRequestMethod(17.6)` corresponding to a string.

BrookHttpRequest Perform HTTP requests.

11.4 Functions and Procedures

BrookDateTimeToGMT _____

Declaration `function BrookDateTimeToGMT(const ADateTime: TDateTime): string;`

Description Converts `TDateTime` to a GMT format.

BrookSameUrl _____

Declaration `function BrookSameUrl(AUrl1, AUrl2: string): Boolean;`

Description Compare two URLs ignoring a possible final slash.

BrookStatusCodeToReasonPhrase _____

Declaration `function BrookStatusCodeToReasonPhrase(const AStatusCode: Word): string;`

Description Returns the reason phrase corresponding to a status code.

BrookReasonPhraseToStatusCode _____

Declaration `function BrookReasonPhraseToStatusCode(const AReasonPhrase: string): Word;`

Description Returns the status code corresponding to a reason phrase.

BrookGetAcceptEncodingSet _____

Declaration `function BrookGetAcceptEncodingSet(const AAcceptEncoding: ShortString):
TBrookAcceptEncodingSet;`

Description Returns a set of HTTP AcceptEncoding header.

BrookGetAcceptEncoding

Declaration `function BrookGetAcceptEncoding(const AAcceptEncoding: TBrookAcceptEncodingSet): string;`

Description Returns a string of HTTP AcceptEncoding.

BrookMimeTypeFromFileExt

Declaration `function BrookMimeTypeFromFileExt(const AValue: string): string;`

Description Returns a MIME type by file extension.

BrookMimeTypeFromFileName

Declaration `function BrookMimeTypeFromFileName(const AValue: string): string;`

Description Returns a MIME type by file name.

BrookFileExtFromMimeType

Declaration `function BrookFileExtFromMimeType(const AValue: string): string;`

Description Returns a file extension by MIME type.

BrookExtractUrlFileName

Declaration `function BrookExtractUrlFileName(const AUrl: string): string;`

Description Extracts the file name of an URL.

BrookExtractUrlFileName

Declaration `function BrookExtractUrlFileName(const AUrl: string; const AEscapeQueryString: Boolean): string;`

Description Extracts the file name of an URL and escapes it.

BrookRequestMethodToStr

Declaration `function BrookRequestMethodToStr(const AMethod: TBrookRequestMethod): string;`

Description Returns the string corresponding to a TBrookRequestMethod(17.6).

BrookStrToRequestMethod

Declaration `function BrookStrToRequestMethod(const AMethod: string): TBrookRequestMethod;`

Description Returns the TBrookRequestMethod(17.6) corresponding to a string.

BrookHttpRequest

Declaration `function BrookHttpRequest(const AUrl: string; const AMethod:
TBrookRequestMethod = rmGet; const AHttpClientLibrary: string = ES):
TBrookHTTPResult;`

Description Perform HTTP requests. (allows all request methods)

11.5 Types

TBrookAcceptEncodingSet

Declaration `TBrookAcceptEncodingSet = set of (aeDeflate, aeGzip, aeSdch, aeXGzip);`

Description Defines a set to represent the AcceptEncoding HTTP header.

Chapter 12

Unit BrookLogger

12.1 Description

Logger classes.

12.2 Uses

- BrookClasses(3)
- BrookException(7)
- BrookMessages(13)
- SysUtils
- Classes

12.3 Overview

EBrookLogger Class Handles exceptions for TBrookLogger(12.4).

TBrookLogger Class Provides features for the application(2.5) logging.

12.4 Classes, Interfaces, Objects and Records

EBrookLogger Class

Hierarchy

EBrookLogger > EBrook(7.4) > Exception

Description

Handles exceptions for `TBrookLogger(12.4)`.

TBrookLogger Class

Hierarchy

`TBrookLogger` > `TBrookComponent(3.4)` > `TComponent`

Description

Provides features for the `application(2.5)` logging.

Properties

- Active** `public property Active: Boolean read GetActive write SetActive;`
Enables or disables the logger.
- FileName** `public property FileName: TFileName read GetFileName write SetFileName;`
Defines the name of the `log(12.4)` file.
- Types** `public property Types: TBrookLogTypes read FTypes write FTypes;`
The logger output(12.4) types.
- Output** `public property Output: TBrookLogOutput read GetOutput write SetOutput;`
The logger output mode.
- Prepared** `public property Prepared: Boolean read FPrepared;`
Return `True` if broker is prepared.
- AfterLog** `public property AfterLog: TBrookLogEvent read FAfterLog write FAfterLog;`
Is triggered after the logger writes a `log(12.4)`.
- BeforeLog** `public property BeforeLog: TBrookLogEvent read FBeforeLog write FBeforeLog;`
Is triggered before the logger writes a `log(12.4)`.

Methods

Create

Declaration `public constructor Create(AOwner: TComponent); override;`

GetServiceClass

Declaration `public class function GetServiceClass: TBrookLoggerClass;`

Description Return the `service(12.4)` class provided by this class.

RegisterService

Declaration `public class procedure RegisterService;`

Description Registers the `service(12.4)` provided by this class.

UnregisterService

Declaration `public class procedure UnregisterService;`

Description Unregisters the `service(12.4)` provided by this class.

Service

Declaration `public class function Service: TBrookLogger;`

Description Return an instance of this class.

Prepare

Declaration `public procedure Prepare; virtual;`

Description Prepare the logger broker.

Unprepare

Declaration `public procedure Unprepare; virtual;`

Description Unprepare the logger broker.

Log

Declaration `public procedure Log(const AType: TBrookLogType; const S: string; const ACode: Word; const E: Exception = nil); virtual; abstract;`

Description Writes a log.

DoLog

Declaration `public procedure DoLog(const AType: TBrookLogType; const S: string; const ACode: Word; const E: Exception = nil); virtual;`

Description Writes a `log(12.4)` triggering the `AfterLog(12.4)` and `(BeforeLog(12.4))` events.

Custom

Declaration `public procedure Custom(const S: string; const ACode: Word); virtual;`

Description Writes a custom `log(12.4)`.

Info

Declaration `public procedure Info(const S: string); virtual;`

Description Writes an information log(12.4).

Warn

Declaration `public procedure Warn(const S: string); virtual;`

Description Writes a warning log(12.4).

Debug

Declaration `public procedure Debug(const S: string); virtual;`

Description Writes a debug log(12.4).

Error

Declaration `public procedure Error(const S: string; E: Exception = nil); virtual;`

Description Writes an error log(12.4).

12.5 Types

TBrookLoggerClass

Declaration `TBrookLoggerClass = class of TBrookLogger;`

Description Is a metaclass for TBrookLogger(12.4) class.

TBrookLogOutput

Declaration `TBrookLogOutput = (...);`

Description Defines an enumerator to represent the logger output kind.

Values `loFile`
`loSystem`

TBrookLogType

Declaration `TBrookLogType = (...);`

Description Defines an enumerator to represent the logger event types.

Values `ltCustom`
`ltInfo`
`ltWarning`
`ltError`
`ltDebug`

TBrookLogTypes

Declaration TBrookLogTypes = set of TBrookLogType;

Description Defines a set to represent the logger event types.

TBrookLogEvent

Declaration TBrookLogEvent = procedure(ASender: TObject; const AType: TBrookLogType;
const S: string; const ACode: Word; const E: Exception; var AHandled:
Boolean) of object;

Description Is a type to the log event.

PBrookLogEvent

Declaration PBrookLogEvent = ^TBrookLogEvent;

Description Defines a pointer to the log event.

Chapter 13

Unit BrookMessages

13.1 Description

Messages unit.

13.2 Constants

SBrookDefaultLocale_rst _____

Declaration `SBrookDefaultLocale_rst = 'en-US';`

SBrookInvalidRequestMethodError_rst _____

Declaration `SBrookInvalidRequestMethodError_rst = 'Invalid request method: %s';`

SBrookItemNotFoundError_rst _____

Declaration `SBrookItemNotFoundError_rst = 'Item "%s" not found.';`

SBrookFileNotFoundError_rst _____

Declaration `SBrookFileNotFoundError_rst = 'File not found: %s';`

SBrookNoRequestMethodError_rst _____

Declaration `SBrookNoRequestMethodError_rst = 'No REQUEST_METHOD passed from server.';`

SBrookNoApplicationRegisteredError_rst _____

Declaration `SBrookNoApplicationRegisteredError_rst = 'No application registered.';`

SBrookApplicationAlreadyRegisteredError_rst _____

Declaration SBrookApplicationAlreadyRegisteredError_rst = 'The application is already registered.';

SBrookRegiterTBrookActionError_rst _____

Declaration SBrookRegiterTBrookActionError_rst = 'Unable to register the type TBrookAction directly.';

SBrookActionAlreadyRegisteredError_rst _____

Declaration SBrookActionAlreadyRegisteredError_rst = 'The action "%s" is already registered.';

SBrookDefaultActionAlreadyRegisteredError_rst _____

Declaration SBrookDefaultActionAlreadyRegisteredError_rst = 'There is already a default action registered.';

SBrookPatternAlreadyRegisteredError_rst _____

Declaration SBrookPatternAlreadyRegisteredError_rst = 'There is already an action registered with the pattern "%s".';

SBrookRouterServiceAlreadyRegisteredError_rst _____

Declaration SBrookRouterServiceAlreadyRegisteredError_rst = 'The router service is already registered.';

SBrookNoRouterServiceRegisteredError_rst _____

Declaration SBrookNoRouterServiceRegisteredError_rst = 'No router service registered.';

SBrookNoRouteRegisteredError_rst _____

Declaration SBrookNoRouteRegisteredError_rst = 'No route registered.';

SBrookCfgFileNotFoundError_rst _____

Declaration SBrookCfgFileNotFoundError_rst = 'The config file was not found: "%s".';

SBrookNotNilError_rst _____

Declaration SBrookNotNilError_rst = '"%s" must not be nil.';

SBrookEmptyLibraryNameError_rst _____

Declaration SBrookEmptyLibraryNameError_rst = 'The library name must not be empty.';

SBrookMethodNotAllowedError_rst _____

Declaration SBrookMethodNotAllowedError_rst = 'HTTP method not allowed for the requested resource.';

SBrookConstraintAlreadyRegisteredError_rst _____

Declaration SBrookConstraintAlreadyRegisteredError_rst = 'The constraint "%s" is already registered.';

SBrookConstraintsServiceAlreadyRegisteredError_rst _____

Declaration SBrookConstraintsServiceAlreadyRegisteredError_rst = 'The constraints service is already registered.';

SBrookNoConstraintsServiceRegisteredError_rst _____

Declaration SBrookNoConstraintsServiceRegisteredError_rst = 'No constraints service registered.';

SBrookNoLoggerServiceRegisteredError_rst _____

Declaration SBrookNoLoggerServiceRegisteredError_rst = 'No logger service registered.';

SBrookLoggerServiceAlreadyRegisteredError_rst _____

Declaration SBrookLoggerServiceAlreadyRegisteredError_rst = 'The logger service is already registered.';

13.3 Variables

SBrookDefaultLocale _____

Declaration SBrookDefaultLocale: string = SBrookDefaultLocale_rst;

SBrookInvalidRequestMethodError _____

Declaration SBrookInvalidRequestMethodError: string = SBrookInvalidRequestMethodError_rst;

SBrookItemNotFound _____

Declaration SBrookItemNotFound: string = SBrookItemNotFound_rst;

SBrookFileNotFound _____

Declaration SBrookFileNotFound: string = SBrookFileNotFound_rst;

SBrookNoRequestMethodError _____

Declaration SBrookNoRequestMethodError: string = SBrookNoRequestMethodError_rst;

SBrookNoApplicationRegisteredError _____

Declaration SBrookNoApplicationRegisteredError: string =
SBrookNoApplicationRegisteredError_rst;

SBrookApplicationAlreadyRegisteredError _____

Declaration SBrookApplicationAlreadyRegisteredError: string =
SBrookApplicationAlreadyRegisteredError_rst;

SBrookRegiterTBrookActionError _____

Declaration SBrookRegiterTBrookActionError: string = SBrookRegiterTBrookActionError_rst;

SBrookActionAlreadyRegisteredError _____

Declaration SBrookActionAlreadyRegisteredError: string =
SBrookActionAlreadyRegisteredError_rst;

SBrookDefaultActionAlreadyRegisteredError _____

Declaration SBrookDefaultActionAlreadyRegisteredError: string =
SBrookDefaultActionAlreadyRegisteredError_rst;

SBrookPatternAlreadyRegisteredError _____

Declaration SBrookPatternAlreadyRegisteredError: string =
SBrookPatternAlreadyRegisteredError_rst;

SBrookRouterServiceAlreadyRegisteredError _____

Declaration SBrookRouterServiceAlreadyRegisteredError: string =
SBrookRouterServiceAlreadyRegisteredError_rst;

SBrookNoRouterServiceRegisteredError _____

Declaration SBrookNoRouterServiceRegisteredError: string =
SBrookNoRouterServiceRegisteredError_rst;

SBrookNoRouteRegisteredError _____

Declaration SBrookNoRouteRegisteredError: string = SBrookNoRouteRegisteredError_rst;

SBrookCfgFileNotFoundError _____

Declaration SBrookCfgFileNotFoundError: string = SBrookCfgFileNotFoundError_rst;

SBrookNotNilError _____

Declaration SBrookNotNilError: string = SBrookNotNilError_rst;

SBrookEmptyLibraryNameError _____

Declaration SBrookEmptyLibraryNameError: string = SBrookEmptyLibraryNameError_rst;

SBrookMethodNotAllowedError _____

Declaration SBrookMethodNotAllowedError: string = SBrookMethodNotAllowedError_rst;

SBrookConstraintAlreadyRegisteredError _____

Declaration SBrookConstraintAlreadyRegisteredError: string =
SBrookConstraintAlreadyRegisteredError_rst;

SBrookConstraintsServiceAlreadyRegisteredError _____

Declaration SBrookConstraintsServiceAlreadyRegisteredError: string =
SBrookConstraintsServiceAlreadyRegisteredError_rst;

SBrookNoConstraintsServiceRegisteredError _____

Declaration SBrookNoConstraintsServiceRegisteredError: string =
SBrookNoConstraintsServiceRegisteredError_rst;

SBrookNoLoggerServiceRegisteredError _____

Declaration SBrookNoLoggerServiceRegisteredError: string =
SBrookNoLoggerServiceRegisteredError_rst;

SBrookLoggerServiceAlreadyRegisteredError _____

Declaration SBrookLoggerServiceAlreadyRegisteredError: string =
SBrookLoggerServiceAlreadyRegisteredError_rst;

Chapter 14

Unit BrookMiddleware

14.1 Description

Middleware classes.

14.2 Uses

- `BrookClasses`(3)
- `BrookAction`(1)
- `BrookRouter`(15)
- `BrookException`(7)
- `BrookHttpDefs`(10)
- `BrookUtils`(17)

14.3 Overview

`EBrookMiddleware` Class Handles exceptions for `TBrookMiddleware`(14.4).

`TBrookMiddleware` Class Intermediates two classes through a `TBrookExecuteActionEvent`(15.5) event.

14.4 Classes, Interfaces, Objects and Records

`EBrookMiddleware` Class

Hierarchy

`EBrookMiddleware` > `EBrook`(7.4) > Exception

Description

Handles exceptions for `TBrookMiddleware(14.4)`.

TBrookMiddleware Class

Hierarchy

`TBrookMiddleware` > `TBrookComponent(3.4)` > `TComponent`

Description

Intermediates two classes through a `TBrookExecuteActionEvent(15.5)` event.

Properties

OnExecute `public property OnExecute: TBrookMiddlewareExecuteEvent read FOnExecute write FOnExecute;`

Is triggered when the `Execute(14.4)` method bound in this class is executed.

Methods

Create

Declaration `public constructor Create(ABoundEvent: PBrookExecuteActionEvent); overload; virtual;`

Description Creates an instance of a `TBrookMiddleware(14.4)` class.

Execute

Declaration `public procedure Execute(ASender: TObject; AAction: TBrookAction; ARoute: TBrookRoute); virtual;`

Description Is triggered when the `DoExecute` method bound in this class is executed.

BindExecution

Declaration `public procedure BindExecution(AEvent: PBrookExecuteActionEvent);`

Description Binds a `TBrookExecuteActionEvent(15.5)` event to this class keeping the implementation of a previously declared event.

14.5 Types

TBrookMiddlewareClass

Declaration `TBrookMiddlewareClass = class of TBrookMiddleware;`

Description Is a metaclass for `TBrookMiddleware(14.4)` class.

TBrookMiddlewareExecuteEvent

Declaration TBrookMiddlewareExecuteEvent = procedure(ASender: TObject; AAction: TBrookAction; ARoute: TBrookRoute) of object;

Description Is a type to *Middleware.OnExecute event.

PBrookMiddlewareExecuteEvent

Declaration PBrookMiddlewareExecuteEvent = ^TBrookMiddlewareExecuteEvent;

Description Defines a pointer to the TBrookMiddlewareExecuteEvent(14.5) type.

Chapter 15

Unit BrookRouter

15.1 Description

Router classes.

15.2 Uses

- BrookClasses(3)
- BrookHttpDefs(10)
- BrookException(7)
- BrookAction(1)
- BrookUtils(17)
- BrookConsts(6)
- BrookMessages(13)
- BrookHTTPConsts(9)
- HTTPDefs
- Classes
- SysUtils
- StrUtils

15.3 Overview

E BrookRoutes Class Handles exceptions for **T BrookRoutes**(15.4).

E BrookRouter Class Handles exceptions for **T BrookRouter**(15.4).

T BrookRoute Record Defines a route item.

T BrookRoutes Class Defines a list of routes.

T BrookRouter Class Provides features for the route(15.4) handling.

15.4 Classes, Interfaces, Objects and Records

E BrookRoutes Class

Hierarchy

E BrookRoutes > E Brook(7.4) > Exception

Description

Handles exceptions for **T BrookRoutes**(15.4).

E BrookRouter Class

Hierarchy

E BrookRouter > E Brook(7.4) > Exception

Description

Handles exceptions for **T BrookRouter**(15.4).

T BrookRoute Record

Description

Defines a route item.

Fields

ActionClass `public ActionClass: T BrookActionClass;`
Specifies the class of the action to be called.

Method `public Method: T BrookRequestMethod;`
Specifies a HTTP request method of the action to be called.

Pattern `public Pattern: string;`
Specifies the patter of the action to be called.

TBrookRoutes Class

Hierarchy

TBrookRoutes > TBrookPersistent(3.4) > TPersistent

Description

Defines a list of routes.

Properties

Items public property Items[constAIndex:Integer]: PBrookRoute read GetItems write SetItems;

The list of routes.

Methods

Create

Declaration public constructor Create; virtual;

Description Creates an instance of a TBrookRoutes(15.4) class.

Destroy

Declaration public destructor Destroy; override;

Description Frees an instance of TBrookRoutes(15.4) class.

Clear

Declaration public procedure Clear;

Description Clears all routes.

Count

Declaration public function Count: Integer;

Description Returns the number of registered routes.

Add

Declaration public function Add(AActionClass: TBrookActionClass; const APattern: string; const AMethod: TBrookRequestMethod; const ADefault: Boolean): Integer;

Description Adds a route item.

GetDefaultActionClass

Declaration `public procedure GetDefaultActionClass(out AClass: TBrookActionClass; out AIndex: Integer);`

Description Get the default action class.

GetEmptyPatternActionClass

Declaration `public procedure GetEmptyPatternActionClass(out AClass: TBrookActionClass; out AIndex: Integer);`

Description Get the action class with empty pattern.

PatternByActionClass

Declaration `public function PatternByActionClass(AClass: TBrookActionClass): string;`

Description Get the registered pattern of a class.

ActionClassByPattern

Declaration `public function ActionClassByPattern(const APattern: string): TBrookActionClass;`

Description Get the action class from a patter.

ActionClassByClassName

Declaration `public function ActionClassByClassName(const AName: string): TBrookActionClass;`

Description Get an action class from its class name.

TBrookRouter Class

Hierarchy

TBrookRouter > TBrookComponent(3.4) > TComponent

Description

Provides features for the `route(15.4)` handling.

Properties

Routes	<code>public property Routes: TBrookRoutes read FRoutes write FRoutes;</code> List of available routes.
AfterExecuteAction	<code>public property AfterExecuteAction: TBrookExecuteActionEvent read FAfterExecuteAction write FAfterExecuteAction;</code> Is triggered after the router executes a action.
AfterMatchPattern	<code>public property AfterMatchPattern: TBrookMatchPatternEvent read FAfterMatchPattern write FAfterMatchPattern;</code> Is triggered after the router matches a pattern.
AfterRoute	<code>public property AfterRoute: TBrookRouteEvent read FAfterRoute write FAfterRoute;</code> Is triggered after the router is routing.
BeforeExecuteAction	<code>public property BeforeExecuteAction: TBrookExecuteActionEvent read FBeforeExecuteAction write FBeforeExecuteAction;</code> Is triggered before the router executes a action.
BeforeMatchPattern	<code>public property BeforeMatchPattern: TBrookMatchPatternEvent read FBeforeMatchPattern write FBeforeMatchPattern;</code> Is triggered before the router matches a pattern.
BeforeRoute	<code>public property BeforeRoute: TBrookRouteEvent read FBeforeRoute write FBeforeRoute;</code> Is triggered before the router is routing.

Methods

Create

Declaration `public constructor Create(AOwner: TComponent); override;`

Description Creates an instance of a `TBrookRouter(15.4)` class.

Destroy

Declaration `public destructor Destroy; override;`

Description Frees an instance of `TBrookRouter(15.4)` class.

GetServiceClass

Declaration `public class function GetServiceClass: TBrookRouterClass;`

Description Return the `service(15.4)` class provided by this class.

RegisterService

Declaration `public class procedure RegisterService;`

Description Registers the `service(15.4)` provided by this class.

UnregisterService

Declaration `public class procedure UnregisterService;`

Description Unregisters the `service(15.4)` provided by this class.

Service

Declaration `public class function Service: TBrookRouter;`

Description Return an instance of this class.

RootUrl

Declaration `public class function RootUrl: string;`

Description Return the root URL.

RootUrl

Declaration `public class function RootUrl(ARequest: TBrookRequest): string;`

Description Return the root URL passing `TBrookRequest(10.3)` as param.

MethodNotAllowed

Declaration `public class procedure MethodNotAllowed(AResponse: TBrookResponse);`

Description Sends the HTTP "NotAllowed" status code to the response.

UrlFor

Declaration `public function UrlFor(AActionClass: TBrookActionClass; const AParams:
array of string): string; overload;`

Description Creates an URL for an action informing an array of parameters. Exemple:

```

@longcode
    procedure TMyAction.Get;
    begin
        // When calling with http://localhost/cgi-bin/cgi1/foo/myvalue
        // the output will be /cgi-bin/cgi1/foo/myvalue
        Write(UrlFor(TMyAction, ['myvalue']));
    end;

    initialization
        TMyAction.Register('/foo/:myvar');

```

UrlFor

Declaration public function UrlFor(AClassName: string; const AParams: array of string): string; overload;

Description Creates an URL for an action passing an array of parameters however informing the class name as string

Canonicalize

Declaration public function Canonicalize(ARequest: TBrookRequest; AResponse: TBrookResponse): Boolean;

Description Adds an slash to the end of the URL if does not exist.

MatchPattern

Declaration public function MatchPattern(APattern, APathInfo: string; out ARedirect: Boolean; out ANames, AValues: TBrookArrayOfString): Boolean; virtual;

Description Checks if the given parameters match with a registered route(15.4).

Route

Declaration public procedure Route(ARequest: TBrookRequest; AResponse: TBrookResponse); virtual;

Description Runs the route processing.

15.5 Types

TBrookRoutesClass

Declaration TBrookRoutesClass = class of TBrookRoutes;

Description Is a metaclass for TBrookRoutes(15.4) class.

TBrookRouterClass

Declaration TBrookRouterClass = class of TBrookRouter;

Description Is a metaclass for TBrookRouter(15.4) class.

PBrookRoute

Declaration PBrookRoute = ^TBrookRoute;

Description Defines a pointer to the route item.

TBrookMatchPatternEvent

Declaration TBrookMatchPatternEvent = function(ASender: TObject; APattern, APathInfo: string; out ARedirect: Boolean; out ANames, AValues: TBrookArrayOfString; var AHandled: Boolean): Boolean of object;

Description Is a type to *MatchPattern event.

PBrookMatchPatternEvent

Declaration PBrookMatchPatternEvent = ^TBrookMatchPatternEvent;

Description Defines a pointer to the match pattern event.

TBrookRouteEvent

Declaration TBrookRouteEvent = procedure(ASender: TObject; ARequest: TBrookRequest; AResponse: TBrookResponse; var AHandled: Boolean) of object;

Description Is a type to *Route event.

PBrookRouteEvent

Declaration PBrookRouteEvent = ^TBrookRouteEvent;

Description Defines a pointer to the route event.

TBrookExecuteActionEvent

Declaration TBrookExecuteActionEvent = procedure(ASender: TObject; AAction: TBrookAction; ARequest: TBrookRequest; AResponse: TBrookResponse; const ANames, AValues: TBrookArrayOfString; ARoute: TBrookRoute; var AHandled: Boolean) of object;

Description Is a type to *ExecuteAction event.

PBrookExecuteActionEvent

Declaration `PBrookExecuteActionEvent = ^TBrookExecuteActionEvent;`

Description Defines a pointer to the execute action event.

Chapter 16

Unit BrookSession

16.1 Description

Session class.

16.2 Uses

- BrookClasses(3)
- BrookHttpDefs(10)
- BrookUtils(17)
- BrookException(7)
- BrookConsts(6)
- Classes
- SysUtils
- HTTPDefs
- DateUtils

16.3 Overview

`EBrookSession` Class Handles exceptions for `TBrookSession`(16.4).

`TBrookSession` Class Defines features to the session handling.

`TBrookGSession` Class Defines features to the section mapping `field`(16.4) values to object.

16.4 Classes, Interfaces, Objects and Records

EBrookSession Class

Hierarchy

EBrookSession > EBrook(7.4) > Exception

Description

Handles exceptions for TBrookSession(16.4).

TBrookSession Class

Hierarchy

TBrookSession > TBrookComponent(3.4) > TComponent

Description

Defines features to the session handling.

Properties

CookieName public property CookieName: string read FCookieName write FCookieName;
Set the session cookie name.

CookieDomain public property CookieDomain: string read FCookieDomain write FCookieDomain;
Set the session cookie domain.

CookiePath public property CookiePath: string read FCookiePath write FCookiePath;
Set the session cookie path.

CookieSecure public property CookieSecure: Boolean read FCookieSecure write FCookieSecure;
Set the session cookie secure.

CookieExpires public property CookieExpires: TDateTime read FCookieExpires write FCookieExpires;
Set the session cookie expiration.

Field public property Field[constAName:string]: string read GetField write SetField;
Handles the session fields(16.4).

Fields public property Fields: TStrings read FFields write SetFields;
The session fields.

IgnoredFields public property IgnoredFields: TStrings read FIgnoredFields write SetIgnoredFields;
The ignored fields(16.4) by the session.

Directory public property Directory: string read FDirectory write FDirectory;
Set the name of session directory.

Expired public property Expired: Boolean read IsExpired;
Returns True if the session has expired.

Empty public property Empty: Boolean read IsEmpty;
Returns True if the session fields is empty.

SID public property SID: string read FSID write FSID;
Get or set the session ID.

Started public property Started: Boolean read IsStarted;
Checks if the session has started.

FileName public property FileName: TFileName read FFileName write FFileName;
The session file name.

FilePrefix public property FilePrefix: ShortString read FFilePrefix write FFilePrefix;
The session file prefix.

Timeout public property Timeout: Integer read FTimeout write FTimeout default BROOK_SESS_DEFAULT_TIMEOUT;
The remaining seconds for the session finish(16.4).

HttpOnly public property HttpOnly: Boolean read FHttpOnly write FHttpOnly;
Informs if the session cookie is accessible only by HTTP requests, if True, the JavaScript access is not allowed.

AfterStart public property AfterStart: TBrookSessionStartEvent read FAfterStart write FAfterStart;
Is triggered after session start(16.4).

BeforeStart public property BeforeStart: TBrookSessionStartEvent read FBeforeStart write FBeforeStart;
Is triggered before session start(16.4).

AfterFinish public property AfterFinish: TBrookSessionFinishEvent read FAfterFinish write FAfterFinish;
Is triggered after session finish(16.4).

BeforeFinish public property BeforeFinish: TBrookSessionFinishEvent read FBeforeFinish
write FBeforeFinish;
Is triggered before session finish(16.4).

AfterExpire public property AfterExpire: TBrookSessionExpireEvent read FAfterExpire
write FAfterExpire;
Is triggered after session expire(16.4).

BeforeExpire public property BeforeExpire: TBrookSessionExpireEvent read FBeforeExpire
write FBeforeExpire;
Is triggered before session expire(16.4).

Methods

Create

Declaration public constructor Create(AOwner: TComponent); override;

Description Creates an instance of a TBrookSession(16.4) class.

Destroy

Declaration public destructor Destroy; override;

Description Frees an instance of TBrookSession(16.4) class.

GetFields

Declaration public procedure GetFields(AObject: TObject);

Description Get an object with the fields(16.4) coming from session.

IsExpired

Declaration public function IsExpired: Boolean; virtual;

Description Returns True if the session has expired(16.4).

IsEmpty

Declaration public function IsEmpty: Boolean; virtual;

Description Returns True if the session fields is empty(16.4).

GenerateID

Declaration public function GenerateID: string; virtual;

Description Creates an ID for the session.

Start

Declaration `public procedure Start(ARequest: TBrookRequest); virtual;`

Description Starts the session.

Finish

Declaration `public procedure Finish(AResponse: TBrookResponse); virtual;`

Description Terminates the session.

Expire

Declaration `public procedure Expire(ARequest: TBrookRequest; AResponse: TBrookResponse); virtual;`

Description Expires the session.

Exists

Declaration `public function Exists(const AName: string): Boolean;`

Description Checks if a name exists in fields(16.4).

TBrookGSession Class

Hierarchy

TBrookGSession > TBrookSession(16.4) > TBrookComponent(3.4) > TComponent

Description

Defines features to the section mapping field(16.4) values to object.

Properties

Entity `public property Entity: T read FEntity write FEntity;`

Maps field(16.4) values to object.

Methods

Create

Declaration `public constructor Create(AOwner: TComponent); override;`

Description Creates an instance of a TBrookGSession(16.4) class.

Destroy

Declaration `public destructor Destroy; override;`

Description Frees an instance of `TBrookGSession(16.4)` class.

16.5 Types

TBrookSessionClass _____

Declaration `TBrookSessionClass = class of TBrookSession;`

Description Is a metaclass for `TBrookSession(16.4)` class.

TBrookSessionStartEvent _____

Declaration `TBrookSessionStartEvent = procedure(ASender: TObject; ARequest: TBrookRequest; var AHandled: Boolean) of object;`

Description Is a type to the session start event.

PBrookSessionStartEvent _____

Declaration `PBrookSessionStartEvent = ^TBrookSessionStartEvent;`

Description Defines a pointer to the session start event.

TBrookSessionFinishEvent _____

Declaration `TBrookSessionFinishEvent = procedure(ASender: TObject; AResponse: TBrookResponse; var AHandled: Boolean) of object;`

Description Is a type to the session finish event.

PBrookSessionFinishEvent _____

Declaration `PBrookSessionFinishEvent = ^TBrookSessionFinishEvent;`

Description Defines a pointer to the session finish event.

TBrookSessionExpireEvent _____

Declaration `TBrookSessionExpireEvent = procedure(ASender: TObject; ARequest: TBrookRequest; AResponse: TBrookResponse; var AHandled: Boolean) of object;`

Description Is a type to the session expire event.

PBrookSessionExpireEvent _____

Declaration `PBrookSessionExpireEvent = ^TBrookSessionExpireEvent;`

Description Defines a pointer to the session expire event.

Chapter 17

Unit BrookUtils

17.1 Description

Utilities unit.

17.2 Uses

- `BrookException`(7)
- `BrookMessages`(13)
- `BrookConsts`(6)
- `BrookHTTPConsts`(9)
- `CustWeb`
- `Classes`
- `SysUtils`
- `TypInfo`

17.3 Overview

`TBrookSettings` Record Stores the Brook settings.

`BrookStartsChar` Check whether a string starts with a given character.

`BrookEndsChar` Check whether a string ends with a given character.

`BrookExtractPathLevels` Get the next pathinfo level.

`BrookGetPathLevel` Get the path level passing the respective index.

BrookGetPathLevels Get the path from the level correspondent to the index to the last level.

BrookMatchMethod Checks if a string is equivalent an enumerator representing a HTTP request method.

BrookFileDate Get the datetime of a file.

BrookDumpStack Writes a backtrace of the current exception.

BrookDumpStackTrace Writes a stack trace of the current exception.

BrookExcludeTrailingUrlDelimiter Ensures Url ends without delimiter.

BrookIncludeTrailingUrlDelimiter Ensures Url ends with delimiter.

BrookExists Checks if a string exists in an array of strings.

BrookExists Checks (ignoring case) if a string exists in an array of strings.

BrookStringToObject Fills a published property of an object passing the property as **PPropInfo** and value as **string**.

BrookStringToObject Fills a published property of an object passing the name and value as **string**.

BrookSafeStringToObject Fills a published property of an object passing the name and value as string and checking the params.

BrookStringsToObject Fills the published properties of an object passing the names and values as a list of strings.

BrookStringsToObject Fills the published properties of an object passing the names and values as a list of strings.

BrookStringsToObject Fills the published properties of an object passing the names and values as a list of strings.

BrookSafeStringsToObject Fills the published properties of an object passing the names and values as a list of strings and checking the params.

BrookSafeStringsToObject Fills the published properties of an object passing the names and values as a list of strings and checking the params.

BrookSafeStringsToObject Fills the published properties of an object passing the names and values as a list of strings and checking the params.

BrookObjectToString Reads a published property of an object passing the property as **PPropInfo** and getting the value as **string**.

BrookObjectToString Reads a published property of an object passing the name as **string** and getting the value as **string**.

BrookSafeObjectToString Reads a published property of an object passing the name, getting the value as string and checking the params.

BrookObjectToStrings Reads the published properties of an object getting the names and values as a list of strings.

BrookObjectToStrings Reads the published properties of an object getting the names and values as a list of strings.

BrookObjectToStrings Reads the published properties of an object getting the names and values as a list of strings.

BrookSafeObjectToStrings Reads the published properties of an object getting the names and values as a list of strings and checking the params.

BrookSafeObjectToStrings Reads the published properties of an object getting the names and values as a list of strings and checking the params.

BrookSafeObjectToStrings Reads the published properties of an object getting the names and values as a list of strings and checking the params.

BrookCopyObject Copies the value of all properties from one object to another passing the prop.

BrookCopyObject Copies the value of all properties from one object to another passing the prop.

BrookCopyObject Copies the value of all properties from one object to another passing the prop.

BrookCopyObject Copies the value of all properties from one object to another.

BrookCopyObject Copies the value of all properties from one object to another.

BrookCopyObject Copies the value of all properties from one object to another.

BrookSafeCopyObject Copies the value of all properties from one object to another passing the prop.

BrookSafeCopyObject Copies the value of all properties from one object to another passing the prop.

BrookSafeCopyObject Copies the value of all properties from one object to another passing the prop.

BrookSafeCopyObject Copies the value of all properties from one object to another and checking the params.

BrookSafeCopyObject Copies the value of all properties from one object to another and checking the params.

BrookSafeCopyObject Copies the value of all properties from one object to another and checking the params.

17.4 Classes, Interfaces, Objects and Records

TBrookSettings Record

Description

Stores the Brook settings.

Fields

Mapped	<code>public Mapped: Boolean;</code> Enables the mapping of HTTP request methods.
Charset	<code>public Charset: ShortString;</code> Set the default application(2.5) Charset.
ContentType	<code>public ContentType: ShortString;</code> Set the default application(2.5) Content-Type.
Page404	<code>public Page404: string;</code> Set the 404 HTML page. The string will be sent as is.
Page404File	<code>public Page404File: string;</code> Set the 404 HTML page file. The file content will be sent. This has higher precedence than <code>TBrookSettings.Page404(17.4)</code> so when both are set, this will be processed first and only if the file is not found or cannot be read the system will fallback to <code>TBrookSettings.Page404(17.4)</code>
Page500	<code>public Page500: string;</code> Set the 500 HTML page. The string will be sent as is.
Page500File	<code>public Page500File: string;</code> Set the 500 HTML page file. The file content will be sent. This has higher precedence than <code>TBrookSettings.Page500(17.4)</code> so when both are set, this will be processed first and only if the file is not found or cannot be read the system will fallback to <code>TBrookSettings.Page500(17.4)</code>
DirectoryForUploads	<code>public DirectoryForUploads: string;</code> Set the default directory for uploads.
DeleteUploadedFiles	<code>public DeleteUploadedFiles: Boolean;</code> Defines if the temporary uploaded files will be deleted.
KeepUploadedNames	<code>public KeepUploadedNames: Boolean;</code> Keeps the original name of the uploaded files.
Configuration	<code>public Configuration: string;</code> Set a configuration for the application(2.5) or for its object members.
RootUrl	<code>public RootUrl: string;</code> Set the default root URL. This is used by methods such as <code>TBrookAction.UrlFor(1.4)</code> , <code>TBrookActionHelper.LinkTo</code> , <code>TBrookActionHelper.ButtonTo</code> etc. By default, Brook assumes <code>SCRIPT_NAME</code> as root URL.

Port	<code>public Port: Word;</code> Set the default application(2.5) port.
LogActive	<code>public LogActive: Boolean;</code> Enables the application(2.5) log.
LogFile	<code>public LogFile: TFileName;</code> Set a name for the application(2.5) log file.
OnError	<code>public OnError: TOnShowRequestException;</code> Handles the application(2.5) exceptions.

17.5 Functions and Procedures

BrookStartsChar

Declaration `function BrookStartsChar(const Ch: Char; const S: string): Boolean;`

Description Check whether a string starts with a given character.

BrookEndsChar

Declaration `function BrookEndsChar(const Ch: Char; const S: string): Boolean;`

Description Check whether a string ends with a given character.

BrookExtractPathLevels

Declaration `procedure BrookExtractPathLevels(S: string; var R: string; out ALvl: string; out AEndDelim: Boolean; const ADelimiter: Char = US);`

Description Get the next pathinfo level.

BrookGetPathLevel

Declaration `function BrookGetPathLevel(const APath: string; const AIndex: SizeInt = 0; const ADelimiter: Char = US): string;`

Description Get the path level passing the respective index. Exemple:

`BrookGetPathLevel('/a/b/c/', 1) = b.`

BrookGetPathLevels

Declaration `function BrookGetPathLevels(const APath: string; const AIndex: SizeInt = 0; const ADelimiter: Char = US): string;`

Description Get the path from the level correspondent to the index to the last level. Exemple:

`BrookGetPathLevels('/a/b/c/', 1) = b/c/.`

BrookMatchMethod

Declaration `function BrookMatchMethod(const ABrookMethod: TBrookRequestMethod; const AMethod: string): Boolean;`

Description Checks if a string is equivalent an enumerator representing a HTTP request method.

BrookFileDate

Declaration `function BrookFileDate(const AFileName: TFileName): TDateTime;`

Description Get the datetime of a file.

BrookDumpStack

Declaration `function BrookDumpStack(const AEOL: ShortString = BR): string;`

Description Writes a backtrace of the current exception.

BrookDumpStackTrace

Declaration `function BrookDumpStackTrace(const AEOL: ShortString = BR): string;`

Description Writes a stack trace of the current exception.

BrookExcludeTrailingUrlDelimiter

Declaration `function BrookExcludeTrailingUrlDelimiter(const AUrl: string): string;`

Description Ensures Url ends without delimiter.

BrookIncludeTrailingUrlDelimiter

Declaration `function BrookIncludeTrailingUrlDelimiter(const AUrl: string): string;`

Description Ensures Url ends with delimiter.

BrookExists

Declaration `function BrookExists(const S: string; const AParts: array of string): Boolean; overload;`

Description Checks if a string exists in an array of strings.

BrookExists

Declaration `function BrookExists(const S: string; const AParts: array of string; const AIgnoreCase: Boolean): Boolean; overload;`

Description Checks (ignoring case) if a string exists in an array of strings.

BrookStringToObject

Declaration `procedure BrookStringToObject(AObject: TObject; APropInfo: PPropInfo; const AValue: string); overload;`

Description Fills a published property of an object passing the property as `PPropInfo` and value as `string`.

BrookStringToObject

Declaration `procedure BrookStringToObject(AObject: TObject; const AName, AValue: string); overload;`

Description Fills a published property of an object passing the name and value as `string`.

BrookSafeStringToObject

Declaration `procedure BrookSafeStringToObject(AObject: TObject; const AName, AValue: string);`

Description Fills a published property of an object passing the name and value as `string` and checking the params.

BrookStringsToObject

Declaration `procedure BrookStringsToObject(AObject: TObject; AStrings: TStrings); overload;`

Description Fills the published properties of an object passing the names and values as a list of strings.

BrookStringsToObject

Declaration `procedure BrookStringsToObject(AObject: TObject; AStrings: TStrings; const AIgnoredProps: array of string); overload;`

Description Fills the published properties of an object passing the names and values as a list of strings. Allows to ignore properties via an array of strings.

BrookStringsToObject

Declaration `procedure BrookStringsToObject(AObject: TObject; AStrings: TStrings; const AIgnoredProps: TStrings); overload;`

Description Fills the published properties of an object passing the names and values as a list of strings. Allows to ignore properties via a list of strings.

BrookSafeStringsToObject

Declaration `procedure BrookSafeStringsToObject(AObject: TObject; AStrings: TStrings); overload;`

Description Fills the published properties of an object passing the names and values as a list of strings and checking the params.

BrookSafeStringsToObject

Declaration `procedure BrookSafeStringsToObject(AObject: TObject; AStrings: TStrings; const AIgnoredProps: array of string); overload;`

Description Fills the published properties of an object passing the names and values as a list of strings and checking the params. Allows to ignore properties via an array of strings.

BrookSafeStringsToObject

Declaration `procedure BrookSafeStringsToObject(AObject: TObject; AStrings: TStrings; const AIgnoredProps: TStrings); overload;`

Description Fills the published properties of an object passing the names and values as a list of strings and checking the params. Allows to ignore properties via a list of strings.

BrookObjectToString

Declaration `procedure BrookObjectToString(AObject: TObject; APropInfo: PPropInfo; out AValue: string); overload;`

Description Reads a published property of an object passing the property as PPropInfo and getting the value as string.

BrookObjectToString

Declaration `procedure BrookObjectToString(AObject: TObject; const AName: string; out AValue: string); overload;`

Description Reads a published property of an object passing the name as string and getting the value as string.

BrookSafeObjectToString

Declaration `procedure BrookSafeObjectToString(AObject: TObject; const AName: string; out AValue: string);`

Description Reads a published property of an object passing the name, getting the value as string and checking the params.

BrookObjectToStrings

Declaration `procedure BrookObjectToStrings(AObject: TObject; AStrings: TStrings); overload;`

Description Reads the published properties of an object getting the names and values as a list of strings.

BrookObjectToStrings

Declaration `procedure BrookObjectToStrings(AObject: TObject; AStrings: TStrings; const AIgnoredProps: array of string); overload;`

Description Reads the published properties of an object getting the names and values as a list of strings. Allows to ignore properties via an array of strings.

BrookObjectToStrings

Declaration `procedure BrookObjectToStrings(AObject: TObject; AStrings: TStrings; const AIgnoredProps: TStrings); overload;`

Description Reads the published properties of an object getting the names and values as a list of strings. Allows to ignore properties via a list of strings.

BrookSafeObjectToStrings

Declaration `procedure BrookSafeObjectToStrings(AObject: TObject; AStrings: TStrings); overload;`

Description Reads the published properties of an object getting the names and values as a list of strings and checking the params.

BrookSafeObjectToStrings

Declaration `procedure BrookSafeObjectToStrings(AObject: TObject; AStrings: TStrings; const AIgnoredProps: array of string); overload;`

Description Reads the published properties of an object getting the names and values as a list of strings and checking the params. Allows to ignore properties via an array of strings.

BrookSafeObjectToStrings

Declaration `procedure BrookSafeObjectToStrings(AObject: TObject; AStrings: TStrings; const AIgnoredProps: TStrings); overload;`

Description Reads the published properties of an object getting the names and values as a list of strings and checking the params.

BrookCopyObject

Declaration `procedure BrookCopyObject(APropList: PPropList; const APropCount: Integer; AFrom, ATo: TObject); overload;`

Description Copies the value of all properties from one object to another passing the prop. list and prop. count.

BrookCopyObject

Declaration `procedure BrookCopyObject(APropList: PPropList; const APropCount: Integer; AFrom, ATo: TObject; const AIgnoredProps: array of string); overload;`

Description Copies the value of all properties from one object to another passing the prop. list and prop. count. Allows to ignore properties via an array of strings.

BrookCopyObject

Declaration `procedure BrookCopyObject(APropList: PPropList; const APropCount: Integer; AFrom, ATo: TObject; const AIgnoredProps: TStrings); overload;`

Description Copies the value of all properties from one object to another passing the prop. list and prop. count. Allows to ignore properties via a list of strings.

BrookCopyObject

Declaration `procedure BrookCopyObject(AFrom, ATo: TObject); overload;`

Description Copies the value of all properties from one object to another.

BrookCopyObject

Declaration `procedure BrookCopyObject(AFrom, ATo: TObject; const AIgnoredProps: array of string); overload;`

Description Copies the value of all properties from one object to another. Allows to ignore properties via an array of strings.

BrookCopyObject

Declaration `procedure BrookCopyObject(AFrom, ATo: TObject; const AIgnoredProps: TStrings); overload;`

Description Copies the value of all properties from one object to another. Allows to ignore properties via a list of strings.

BrookSafeCopyObject

Declaration `procedure BrookSafeCopyObject(APropList: PPropList; const APropCount: Integer; AFrom, ATo: TObject); overload;`

Description Copies the value of all properties from one object to another passing the prop. list and prop. count and checking the params.

BrookSafeCopyObject

Declaration `procedure BrookSafeCopyObject(APropList: PPropList; const APropCount: Integer; AFrom, ATo: TObject; const AIgnoredProps: array of string); overload;`

Description Copies the value of all properties from one object to another passing the prop. list and prop. count and checking the params. Allows to ignore properties via an array of strings.

BrookSafeCopyObject

Declaration `procedure BrookSafeCopyObject(APropList: PPropList; const APropCount: Integer; AFrom, ATo: TObject; const AIgnoredProps: TStrings); overload;`

Description Copies the value of all properties from one object to another passing the prop. list and prop. count and checking the params. Allows to ignore properties via a list of strings.

BrookSafeCopyObject

Declaration `procedure BrookSafeCopyObject(AFrom, ATo: TObject); overload;`

Description Copies the value of all properties from one object to another and checking the params.

BrookSafeCopyObject

Declaration `procedure BrookSafeCopyObject(AFrom, ATo: TObject; const AIgnoredProps: array of string); overload;`

Description Copies the value of all properties from one object to another and checking the params. Allows to ignore properties via an array of strings.

BrookSafeCopyObject

Declaration `procedure BrookSafeCopyObject(AFrom, ATo: TObject; const AIgnoredProps: TStrings); overload;`

Description Copies the value of all properties from one object to another and checking the params. Allows to ignore properties via a list of strings.

17.6 Types

TBrookArrayOfString

Declaration `TBrookArrayOfString = array of string;`

Description Defines an array of strings.

TBrookRequestMethod

Declaration `TBrookRequestMethod = (...);`

Description Defines an enumerator to represent the HTTP request methods.

Values `rmUnknown`
`rmAll`
`rmGet`
`rmPost`
`rmPut`
`rmDelete`
`rmHead`
`rmOptions`
`rmTrace`

17.7 Variables

BrookSettings

Declaration `BrookSettings: TBrookSettings = (Mapped: False; Charset: BROOK_HTTP_CHARSET_UTF_8; ContentType: BROOK_HTTP_CONTENT_TYPE_TEXT_HTML; Page404: BROOK_HTTP_RESPONSE_TEMPLATE_NOT_FOUND; Page404File: ES; Page500: BROOK_HTTP_RESPONSE_TEMPLATE_INTERNAL_SERVER_ERROR; Page500File: ES; DirectoryForUploads: ES; DeleteUploadedFiles: False; KeepUploadedNames: True; Configuration: ES; RootUrl: ES; Port: 0; LogActive: False; LogFile: ES; OnError: nil;);`

Description Global variable to store Brook settings.