Brook framework

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Unit BrookAction

1.1 Description

Brook framework, Action Classes
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1.2 Uses

- BrookClasses(3)
- BrookHttpDefs(10)
- BrookException(7)
- BrookMessages(12)
- BrookUtils(16)
- 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 > TBrookObject(3.4) > TObject

Description

Provides features to handle HTTP requests and responses.

Properties

Files public property Files: TBrookUploadedFiles read FFiles;

The list of files coming from a request called by the POST method.

Fields public property Fields: TStrings read FFields;

The list of variables coming from a request called by the POST method.

Params public property Params: TStrings read FParams;

The list of variables coming from a request called by the GET method.

Values public property Values: TStrings read FValues; The list of variables received from a parametrized URL.

Method public property Method: string read GetMethod; Returns the HTTP request method.

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 to request/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 inside URLs:
                  :name - Represents a variable that spans single URL component between slashes.
                      Examples:
                      TMyAction.Register('/foo/:myvar');
                      Value of a variable "myvar" can be read from the property Values (1.4), e.g.:
                      Write(Values.Values['myvar']);
                      Any number of variables can be combined:
                      TMyAction.Register('/foo/:cat/:id');
                  *name - Represents a variable that spans one or more levels between slashes in the current
                      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 Values. Values ['path'] will receive 'file', 'dir/file' or 'dir/subdir/file'
                      correspondingly.
                      You can also add static text after variable 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 can be combined with any number of single-level variables in
                      any order:
                      TMyAction.Register('/home/user/:uid/file/*fpath/version/:vid/info');
```

NOTE: Only one multi-level variable 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 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 method.

Parameters AMethod Informs the HTTP request method being valid the following options: rmAll, rmGet, rmHead, rmOptions, rmPost, rmPut or rmDelete. The only way to register two actions with the same pattern is differentiating the value of this parameter. If at least one action has this parameter changed, the route mapping is enabled in Mapped(16.4). A typical example of use is:

```
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.

DoRequest

 $\begin{tabular}{lll} \textbf{Declaration} & \textbf{public procedure DoRequest(ARequest: TBrookRequest; AResponse: TBrookRequest).} \end{tabular}$

TBrookResponse); virtual;

Description Calls the method Request(1.4).

Request

Declaration public procedure Request(ARequest: TBrookRequest; AResponse:

TBrookResponse); virtual;

Description Is triggered by a request of any HTTP method.

GetFields

Declaration public procedure GetFields(AObject: TObject);

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

GetParams

Declaration public procedure GetParams(AObject: TObject);

Description Get an object with the params coming from a QUERY_STRING.

GetValues

Declaration public procedure GetValues(AObject: TObject);

Description Get an object with the variables 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: 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 method. Post Declaration public procedure Post; virtual; **Description** Is triggered by a POST HTTP request method. Put

Declaration public procedure Put; virtual;

Description Is triggered by a PUT HTTP request method.

Delete

Declaration public procedure Delete; virtual;

Description Is triggered by a DELETE HTTP request method.

Head

Declaration public procedure Head; virtual;

Description Is triggered by a HEAD HTTP request method.

Options

Declaration public procedure Options; virtual;

Description Is triggered by an OPTIONS HTTP request method.

Redirect

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

Description Redirects to an URL.

Redirect

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 formated 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(), WriteLn(), Render() etc.

Exists

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

Description Checks if a name exists in fields.

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(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) > TBrookObject(3.4) > TObject

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

TBrookResponse); override;

Description Is triggered by a request of any HTTP method.

1.5 Types

TBrookActionClass _____

Declaration TBrookActionClass = class of TBrookAction;

Description Is a metaclass for TBrookAction(1.4) class.

Unit BrookApplication

2.1 Description

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2.2 Uses

- BrookConsts(6)
- BrookClasses(3)
- BrookException(7)
- BrookMessages(12)

2.3 Overview

EBrookApplication Class Handles exceptions for application.

IBrookApplication Interface Interface of the application.

BrookApp Returns the application instance.

BrookRegisterApp Register the application.

BrookUnregisterApp Unregister the application.

2.4 Classes, Interfaces, Objects and Records

EBrookApplication Class _____

Hierarchy

EBrookApplication > EBrook(7.4) > Exception

Description

Handles exceptions for application.

IBrookApplication Interface _____

Hierarchy

IBrookApplication > IBrookInterface(3.4) > IInterface

Description

Interface of the application.

Properties

Terminated public property Terminated: Boolean read GetTerminated; Checks whether the application is terminated.

Methods

GetTerminated

Declaration public function GetTerminated: Boolean;

Description Gets whether the application is terminated.

Instance

Declaration public function Instance: TObject;

Description Returns the instance of broker application.

Run

Declaration public procedure Run;

Description Initializes and runs the application.

Terminate		
D 1 4	17.	

Declaration public procedure Terminate;

 ${\bf Description} \ \ {\bf Terminates} \ {\bf the} \ {\bf application}.$

 ${\bf Description} \quad {\bf Unregister} \ {\bf the} \ {\bf application}.$

2.5 Functions and Procedures

BrookApp
Declaration function BrookApp: IBrookApplication;
Description Returns the application instance.
BrookRegisterApp
Declaration procedure BrookRegisterApp(AApp: IBrookApplication);
Description Register the application.
BrookUnregisterApp
Declaration procedure BrookUnregisterApp;

Unit BrookClasses

3.1 Description

Brook framework, Base Classes
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3.2 Uses

- BrookConsts(6)
- Classes

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.

TBrookComponent Class Is the main component for Brook.

3.4 Classes, Interfaces, Objects and Records

 $IBrookInterface\ Interface\ _$

Hierarchy

IBrookInterface > IInterface

Description
Is the main interface for Brook.
TBrookObject Class
Hierarchy
$\operatorname{TBrookObject} > \operatorname{TObject}$
Description
Is the main object for Brook.
TBrookInterfacedObject Class
Hierarchy
${ m TBrookInterfacedObject} > { m TInterfacedObject}$
Description
Is the main interfaced object for Brook.
TBrookComponent Class
Hierarchy
TBrookComponent > TComponent
Description
Is the main component for Brook.
3.5 Types
TBrookClass
Declaration TBrookClass = class of TBrookObject;

Description Is the main class for Brook.

Unit BrookConfigurator

4.1 Description

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4.2 Uses

- BrookClasses(3)
- BrookUtils(16)
- BrookException(7)
- BrookMessages(12)
- 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.

Classes, Interfaces, Objects and Records 4.4

EBrookConfigurator Class _

Hierarchy

EBrookConfigurator > EBrook(7.4) > Exception

Description

Handles exceptions for TBrookConfigurator(4.4).

TBrookConfigurator Class _

Hierarchy

TBrookConfigurator > TBrookObject(3.4) > TObject

Description

Configures objects by means of string or file.

Properties

AutoLoaded

public property AutoLoaded: Boolean read FAutoLoaded write FAutoLoaded;

Defines if the configuration is read automatically.

Configuration public property Configuration: string read FConfiguration write FConfiguration;

Defines the configuration using one of the following formats. Exemple:

cfg.Configuration := 'param1=value1;param2=value2;param3=value2';

cfg.Configuration := 'cgi1.cfg';

This option requires the following file format:

param1=value1 param2=value2 param3=value2

NOTE: If a configuration is passed to BrookSettings.Configuration, the data informed

in this property will be disregarded.

Target public property Target: TObject read FTarget write FTarget;

Defines the object to be configured.

Values public property Values[AName:string]: string read GetValues;

Devolve o valor de um parmetro.

ClassChecking public property ClassChecking: Boolean read FClassChecking write FClassChecking;

Enables the class name checking, i.e., if the class of the configuring object is a 'TObject1', the following string will be informed as configuration:

'tobject1.param1=value1;tobject1.param2=value2;tobject1.param3=value3'

This feature is useful when more then one object will be configured in one or more configurator objects.

Methods

Create

Declaration public constructor Create;

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

Create

Declaration public constructor Create(const AConfiguration: string); reintroduce;

Description Creates an instance of a TBrookConfigurator(4.4) class passing the configuration in its parameter.

Destroy

Declaration public destructor Destroy; override;

Description Frees an instance of TBrookConfigurator(4.4) class.

Load

Declaration public function Load: TBrookConfigurator; virtual;

Description Loads the configuration file to the memory.

Clear

Declaration public procedure Clear;

Description Clears the internal configuration.

Configure

Declaration public procedure Configure;

Description Configures the object informed in the Target property.

4.5 Types

TBrookConfiguratorClass _____

Declaration TBrookConfiguratorClass = class of TBrookConfigurator;

 $\textbf{Description} \ \ \text{Is a metaclass for $\tt TBrookConfigurator} (4.4) \ class.$

Unit BrookConstraints

5.1 Description

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5.2 Uses

- BrookClasses(3)
- BrookAction(1)
- BrookRouter(14)
- BrookException(7)
- BrookMessages(12)
- Classes
- SysUtils

5.3 Overview

EBrookConstraint Class Handles exceptions for TBrookConstraint(5.4).

TBrookCustomConstraint Class Offers general features for constraint handling.

TBrookConstraint Class Offers features for constraint handling.

TBrookConstraintItem record Defines a constraint item.

 ${\tt TBrookCustomConstraints\ Class\ Registers\ constraint\ classes}.$

TBrookConstraints 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 with a formated 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 formated 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: TBrookActionClass;

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 provided by this class.

UnregisterService

Declaration public class procedure UnregisterService;

Description Unregisters the service provided by this class.

Service

Declaration public class function Service: TBrookConstraints;

Description Return an instance of this class.

\mathbf{Add}

Declaration public procedure Add(AActionClass: TBrookActionClass; AConstraintClass:

TBrookConstraintClass);

Description Adds a constraint item.

Execute

 $\textbf{Declaration} \ \ \textbf{public procedure Execute(AAction: TBrookAction; ARoute: TBrookRoute);}$

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;

Unit BrookConsts

6.1 Description

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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	<pre>LE = LineEnding;</pre>
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	<pre>NullDate = 0;</pre>
Description	Null date.
NullTime	
Declaration	<pre>NullTime = 0;</pre>
Description	Null time.

NullDateTime	
<pre>Declaration NullDateTime = 0;</pre>	
Description Null datetime.	
SP	
Declaration SP = #32;	
Description Space.	
DQ	
Declaration DQ = #34;	
Description "	
PO	
Declaration PO = #35;	
Description #	
PT	
Declaration PT = #37;	
$\textbf{Description} \hspace{0.2cm} \%$	
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 1	
Description	
US	
Declaration	US = #47;
Description	
СО	
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
<pre>Declaration BROOK_GUID = '{D2BDD8EF-78C0-47CD-95C3-664CDFFDAA9E}';</pre>
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%.2x'; BROOK_UUID_SEP_MASK _____ Declaration BROOK_UUID_SEP_MASK = '%.8x-%.4x-%.4x-%.2x%.2x%.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

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Client - Certificate Issue',
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Player', 'application/vnd.antix.game-component', '.atx'), ('Apple Installer
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- Template', 'application/vnd.crick.clicker.template', '.clkt'),
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'application/vnd.ezpix-package', '.ez3'), ('FAST Search & Transfer ASA',
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- Macro-Enabled Template',
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'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;

BROOK_HTTP_DAEMON_DESCRIPTION
Declaration BROOK_HTTP_DAEMON_DESCRIPTION: string = 'Brook HTTP daemon.';
pectaration biodicarii balancii balancii balancii dalla balancii d
BROOK_HTTP_DAEMON_DISPLAYNAME
Declaration BROOK_HTTP_DAEMON_DISPLAYNAME: string = 'Brook daemon';
DDOOL HEED DADAGN NAME
BROOK_HTTP_DAEMON_NAME
Declaration BROOK_HTTP_DAEMON_NAME: string = 'BrookHttpDaemon';
Declaration BROOK_HTTP_DAEMON_NAME: string = 'BrookHttpDaemon';

Chapter 7

Unit BrookException

7.1 Description

Brook framework, Exceptions Classes
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7.2 Uses

- BrookConsts(6)
- SysUtils

7.3 Overview

EBrook Class Handles general exception in Brook.

 ${\tt EBrookHttp404}$ 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

Description Creates an instance of EBrook.

Create

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

Description Creates an instance of EBrook.

Create

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

Description Creates an instance of EBrook.

CreateFmt

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

Description Creates an instance of EBrook with a formated message.

CreateFmt

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

Description Creates an instance of EBrook with a formated message.

CreateFmt

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

Description Creates an instance of EBrook with a formated message.

EBrookHttp404 Class _

Hierarchy

EBrookHttp404 > EBrook(7.4) > Exception

Desc		+ • -	
LIASC	nın	T1C	m
\mathbf{L}		UIC	,,,

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 $\mathsf{EBrook}(7.4)$ class.

Chapter 8

Unit BrookHttpClient

8.1 Description

Brook framework, HTTP Client Classes
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8.2 Uses

- BrookClasses(3)
- BrookException(7)
- BrookMessages(12)
- 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).

 ${\tt EBrookHttpClient\ Class\ Handles\ exceptions\ for\ EBrookHttpClient\ (8.4)}.$

TBrookHttpDef Class Offers general abstract features for HTTP handling. TBrookHttpDefs Class Registers HTTP definitions. TBrookHttpClient Class Client to perform HTTP requests. Classes, Interfaces, Objects and Records 8.4 EBrookHttpDef Class . Hierarchy EBrookHttpDef > EBrook(7.4) > ExceptionDescription Handles exceptions for TBrookHttpDef(8.4). EBrookHttpDefs Class _____ Hierarchy EBrookHttpDefs > EBrook(7.4) > ExceptionDescription Handles exceptions for TBrookHttpDefs(8.4). EBrookHttpClient Class _____ Hierarchy EBrookHttpClient > EBrook(7.4) > ExceptionDescription Handles exceptions for EBrookHttpClient(8.4). TBrookHttpResult record _

TBrookHttpResult record Information returned after a request.

Description

Information returned after a request.

Fields

StatusCode: Integer;

ReasonPhrase: string;

Header Header: string;
Content 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.

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.

Headers public property Headers: TStrings read GetHeaders;

Request headers.

StatusCode public property StatusCode: Integer read GetStatusCode;

Result code after successful request.

ReasonPhrase public property ReasonPhrase: string read GetReasonPhrase;

Result text after successful request.

Method public property Method: string read GetMethod write SetMethod;

Method for requests.

Url public property Url: string read GetUrl write SetUrl;

URL that request 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 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 by a GET HTTP request method.

Post

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

Description Sends request by a POST HTTP request method.

Put

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

Description Sends request by a PUT HTTP request method.

Delete

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

Description Sends request by a DELETE HTTP request method.

Options

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

Description Sends request by an OPTIONS HTTP request method.

Head

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

Description Sends request by a HEAD HTTP request method.

PostForm

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

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

PostForm

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

Description Sends request by a POST HTTP request method, 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 by a POST HTTP request method, passing a file as parameter.

PostFile

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

Description Sends request by a POST HTTP request method, 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.

${\bf ItemBy Library}$

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.

Get

 $\begin{tabular}{lll} \textbf{Declaration public class function Get(const AUrl: string; AResponse: TStream):} \\ \end{tabular}$

Boolean;

Description Sends request by a GET HTTP request method.

Post

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

Boolean;

 $\begin{tabular}{ll} \textbf{Description} & Sends \ request \ by \ a \ POST \ HTTP \ request \ method. \end{tabular}$

Put

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

Boolean;

Description Sends request by a PUT HTTP request method.

Delete

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

Boolean;

Description Sends request by a DELETE HTTP request method.

Options

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

Description Sends request by an OPTIONS HTTP request method.

Head

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

Description Sends request by a HEAD HTTP request method.

PostForm

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

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

PostForm

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

Description Sends request by a POST HTTP request 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 by a POST HTTP request method, passing a file as parameter.

PostFile

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

Description Sends request by a POST HTTP request method, passing a file as parameter.

Request

Declaration public function Request(AHttp: TBrookHttpDef): TBrookHttpResult;

Description Performs the request, passing a TBrookHttpDef as parameter.

Request

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

Description Performs the request, passing the method and URL as parameter.

Request

Declaration public function Request(const AUrl: string): TBrookHttpResult;

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 $\mathtt{TBrookHttpClient}(8.4)$ class.

Chapter 9

Unit BrookHttpConsts

9.1 Description

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9.2 Uses

• BrookConsts(6)

9.3 Constants

BROOK_HTTP_STATUS_CODE_CONTINUE
<pre>Declaration BROOK_HTTP_STATUS_CODE_CONTINUE = 100;</pre>
BROOK_HTTP_STATUS_CODE_SWITCHING_PROTOCOLS
Declaration BROOK_HTTP_STATUS_CODE_SWITCHING_PROTOCOLS = 101;
BROOK_HTTP_STATUS_CODE_OK
To determine the property of t

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
<pre>Declaration BROOK_HTTP_STATUS_CODE_FOUND = 302;</pre>
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;

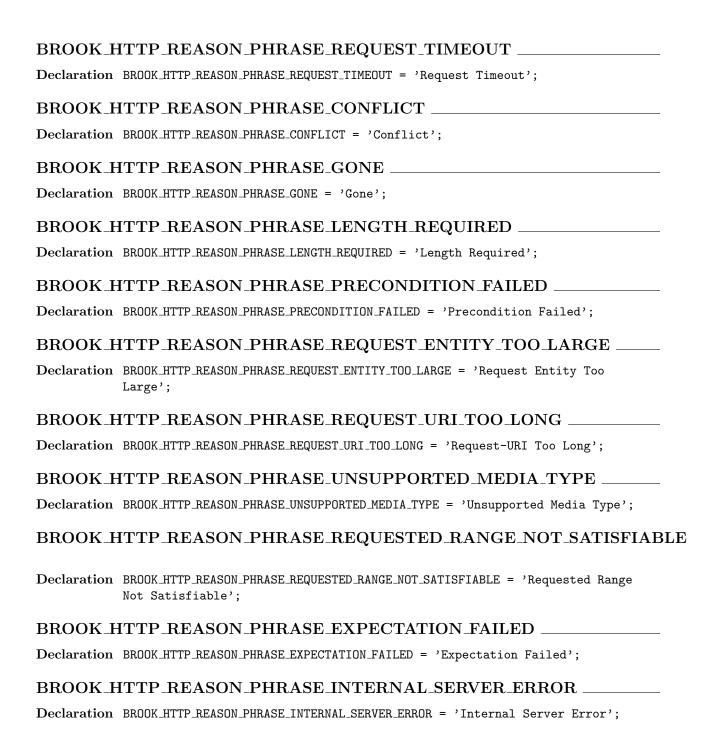
BROOK_HTTP_STATUS_CODE_BAD_REQUEST
Declaration BROOK_HTTP_STATUS_CODE_BAD_REQUEST = 400;
BROOK_HTTP_STATUS_CODE_UNAUTHORIZED
Declaration BROOK_HTTP_STATUS_CODE_UNAUTHORIZED = 401;
BROOK_HTTP_STATUS_CODE_PAYMENT_REQUIRED
Declaration BROOK_HTTP_STATUS_CODE_PAYMENT_REQUIRED = 402;
BROOK_HTTP_STATUS_CODE_FORBIDDEN
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;
Deciaration productiff pratop confidence of the first of the production of the produ

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
D. I DDGGV VIIII GILIIVIG GODE VIVGUDDODIED VIDET IIVIDE
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
<pre>Declaration BROOK_HTTP_REASON_PHRASE_CONTINUE = 'Continue';</pre>
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
<pre>Declaration BROOK_HTTP_REASON_PHRASE_CREATED = 'Created';</pre>
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
<pre>Declaration BROOK_HTTP_REASON_PHRASE_NO_CONTENT = 'No Content';</pre>
BROOK_HTTP_REASON_PHRASE_RESET_CONTENT
<pre>Declaration BROOK_HTTP_REASON_PHRASE_RESET_CONTENT = 'Reset Content';</pre>
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
<pre>Declaration BROOK_HTTP_REASON_PHRASE_FOUND = 'Found';</pre>

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_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
<pre>Declaration BROOK_HTTP_REQUEST_METHOD_GET = 'GET';</pre>
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
<pre>Declaration BROOK_HTTP_REQUEST_METHOD_OPTIONS = 'OPTIONS';</pre>
BROOK_HTTP_REQUEST_METHOD_PATCH
Declaration BROOK_HTTP_REQUEST_METHOD_PATCH = 'PATCH';

BROOK_HTTP_REQUEST_METHOD_PROPFIND
<pre>Declaration BROOK_HTTP_REQUEST_METHOD_PROPFIND = 'PROPFIND';</pre>
BROOK_HTTP_REQUEST_METHOD_PROPPATCH
Declaration BROOK_HTTP_REQUEST_METHOD_PROPPATCH = 'PROPPATCH';
BROOK_HTTP_REQUEST_METHOD_COPY
<pre>Declaration BROOK_HTTP_REQUEST_METHOD_COPY = 'COPY';</pre>
BROOK_HTTP_REQUEST_METHOD_MOVE
<pre>Declaration BROOK_HTTP_REQUEST_METHOD_MOVE = 'MOVE';</pre>
BROOK_HTTP_REQUEST_METHOD_MKCOL
<pre>Declaration BROOK_HTTP_REQUEST_METHOD_MKCOL = 'MKCOL';</pre>
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';

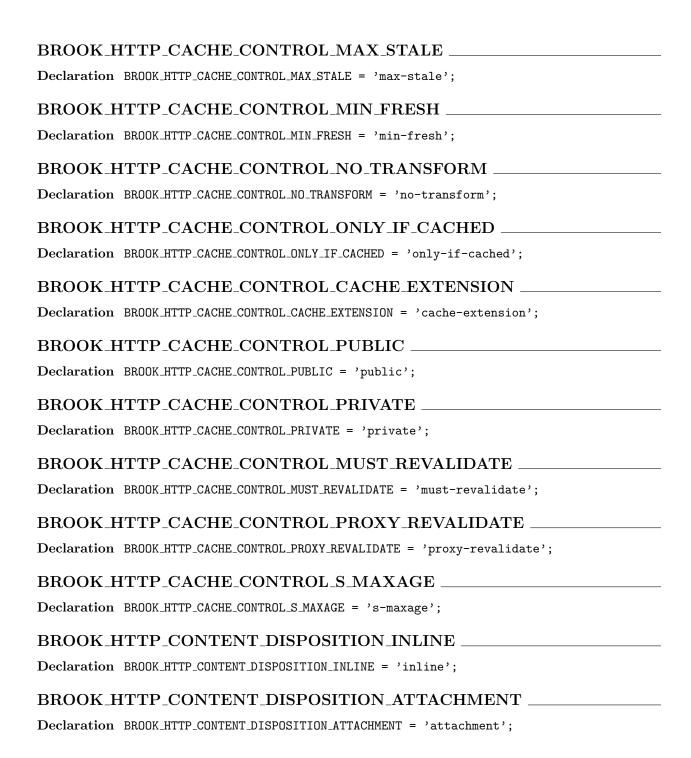
BROOK_HTTP_HEADER_STATUS
Declaration BROOK_HTTP_HEADER_STATUS = 'Status';
BROOK_HTTP_HEADER_TRANSFER_ENCODING
Declaration BROOK_HTTP_HEADER_TRANSFER_ENCODING = 'Transfer-Encoding';
BROOK_HTTP_HEADER_X_POWERED_BY
<pre>Declaration BROOK_HTTP_HEADER_X_POWERED_BY = 'X-Powered-By';</pre>
BROOK_HTTP_HEADER_CHARSET
<pre>Declaration BROOK_HTTP_HEADER_CHARSET = '; charset=';</pre>
BROOK_HTTP_CONTENT_TYPE_TEXT_PLAIN
<pre>Declaration BROOK_HTTP_CONTENT_TYPE_TEXT_PLAIN = 'text/plain';</pre>
BROOK_HTTP_CONTENT_TYPE_TEXT_HTML
<pre>Declaration BROOK_HTTP_CONTENT_TYPE_TEXT_HTML = 'text/html';</pre>
BROOK_HTTP_CONTENT_TYPE_TEXT_CSS
<pre>Declaration BROOK_HTTP_CONTENT_TYPE_TEXT_CSS = 'text/css';</pre>
BROOK_HTTP_CONTENT_TYPE_TEXT_XML
<pre>Declaration BROOK_HTTP_CONTENT_TYPE_TEXT_XML = 'text/xml';</pre>
BROOK_HTTP_CONTENT_TYPE_TEXT_CVS
<pre>Declaration BROOK_HTTP_CONTENT_TYPE_TEXT_CVS = 'text/cvs';</pre>
BROOK_HTTP_CONTENT_TYPE_TEXT_RICHTEXT
<pre>Declaration BROOK_HTTP_CONTENT_TYPE_TEXT_RICHTEXT = 'text/richtext';</pre>
BROOK_HTTP_CONTENT_TYPE_TEXT_RTF
<pre>Declaration BROOK_HTTP_CONTENT_TYPE_TEXT_RTF = 'text/rtf';</pre>
BROOK_HTTP_CONTENT_TYPE_MULTIPART_FORM_DATA
<pre>Declaration BROOK_HTTP_CONTENT_TYPE_MULTIPART_FORM_DATA = 'multipart/form-data';</pre>

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'; 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 _

BROOK_HTTP_CONTENT_TYPE_MULTIPART_FORM_DATA_BOUNDARY

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

BROOK_HTTP_CONTENT_TYPE_APP_MP4
<pre>Declaration BROOK_HTTP_CONTENT_TYPE_APP_MP4 = 'application/mp4';</pre>
BROOK_HTTP_CONTENT_TYPE_APP_MPEG4_GENERIC
Declaration BROOK_HTTP_CONTENT_TYPE_APP_MPEG4_GENERIC = 'application/mpeg4-generic';
BROOK_HTTP_CONTENT_TYPE_IMAGE_PNG
<pre>Declaration BROOK_HTTP_CONTENT_TYPE_IMAGE_PNG = 'image/png';</pre>
BROOK_HTTP_CONTENT_TYPE_IMAGE_JPEG
<pre>Declaration BROOK_HTTP_CONTENT_TYPE_IMAGE_JPEG = 'image/jpeg';</pre>
BROOK_HTTP_CONTENT_TYPE_IMAGE_GIF
<pre>Declaration BROOK_HTTP_CONTENT_TYPE_IMAGE_GIF = 'image/gif';</pre>
BROOK_HTTP_CONTENT_TYPE_IMAGE_TIFF
<pre>Declaration BROOK_HTTP_CONTENT_TYPE_IMAGE_TIFF = 'image/tiff';</pre>
BROOK_HTTP_CONTENT_TYPE_AUDIO_MPEG
<pre>Declaration BROOK_HTTP_CONTENT_TYPE_AUDIO_MPEG = 'audio/mpeg';</pre>
BROOK_HTTP_CONTENT_TYPE_VIDEO_MPEG
<pre>Declaration BROOK_HTTP_CONTENT_TYPE_VIDEO_MPEG = 'video/mpeg';</pre>
BROOK_HTTP_CONTENT_TYPE_VIDEO_QUICKTIME
Declaration BROOK_HTTP_CONTENT_TYPE_VIDEO_QUICKTIME = 'video/quicktime';
BROOK_HTTP_CACHE_CONTROL_NO_CACHE
<pre>Declaration BROOK_HTTP_CACHE_CONTROL_NO_CACHE = 'no-cache';</pre>
BROOK_HTTP_CACHE_CONTROL_NO_STORE
<pre>Declaration BROOK_HTTP_CACHE_CONTROL_NO_STORE = 'no-store';</pre>
BROOK_HTTP_CACHE_CONTROL_MAX_AGE
Declaration BROOK_HTTP_CACHE_CONTROL_MAX_AGE = 'max-age=';



BROOK_HTTP_CONTENT_ENCODING_DEFLATE
<pre>Declaration BROOK_HTTP_CONTENT_ENCODING_DEFLATE = 'deflate';</pre>
BROOK_HTTP_CONTENT_ENCODING_GZIP
Declaration BROOK_HTTP_CONTENT_ENCODING_GZIP = 'gzip';
Declaration brook_http://doi.org/10.1001/10.10
BROOK_HTTP_CONTENT_ENCODING_SDCH
<pre>Declaration BROOK_HTTP_CONTENT_ENCODING_SDCH = 'sdch';</pre>
BROOK_HTTP_CONTENT_ENCODING_X_GZIP
<pre>Declaration BROOK_HTTP_CONTENT_ENCODING_X_GZIP = 'x-gzip';</pre>
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
<pre>Declaration BROOK_HTTP_CHARSET_UTF_8 = 'utf-8';</pre>
<pre>Declaration BROOK_HTTP_CHARSET_UTF_8 = 'utf-8';</pre>
Declaration BROOK_HTTP_CHARSET_UTF_8 = 'utf-8'; BROOK_SRV_ENV_DOCUMENT_ROOT
Declaration BROOK_HTTP_CHARSET_UTF_8 = 'utf-8'; BROOK_SRV_ENV_DOCUMENT_ROOT Declaration BROOK_SRV_ENV_DOCUMENT_ROOT = 'DOCUMENT_ROOT';
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_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_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';
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_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';
Declaration BROOK_HTTP_CHARSET_UTF_8 = 'utf-8'; BROOK_SRV_ENV_DOCUMENT_ROOT

BROOK_SRV_ENV_GATEWAY_INTERFACE
Declaration BROOK_SRV_ENV_GATEWAY_INTERFACE = 'GATEWAY_INTERFACE';
BROOK_SRV_ENV_SERVER_PROTOCOL
<pre>Declaration BROOK_SRV_ENV_SERVER_PROTOCOL = 'SERVER_PROTOCOL';</pre>
BROOK_SRV_ENV_SERVER_PORT
<pre>Declaration BROOK_SRV_ENV_SERVER_PORT = 'SERVER_PORT';</pre>
BROOK_SRV_ENV_REQUEST_METHOD
<pre>Declaration BROOK_SRV_ENV_REQUEST_METHOD = 'REQUEST_METHOD';</pre>
BROOK_SRV_ENV_REQUEST_URI
<pre>Declaration BROOK_SRV_ENV_REQUEST_URI = 'REQUEST_URI';</pre>
BROOK_SRV_ENV_PATH_INFO
<pre>Declaration BROOK_SRV_ENV_PATH_INFO = 'PATH_INFO';</pre>
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
<pre>Declaration BROOK_SRV_ENV_QUERY_STRING = 'QUERY_STRING';</pre>
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
<pre>Declaration BROOK_SRV_ENV_REMOTE_PORT = 'REMOTE_PORT';</pre>
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
7. • • • • • • • • • • • • • • • • • • •
Declaration BROOK_SRV_ENV_REMOTE_IDENT = 'REMOTE_IDENT';
BROOK_SRV_ENV_CONTENT_TYPE
Declaration BROOK_SRV_ENV_CONTENT_TYPE = 'CONTENT_TYPE';
Declaration blook_bitv_Livv_content_file - content_file ,
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
Darlandina proof of a child hand doored - thank doored
Declaration BROOK_CLT_ENV_HTTP_COOKIE = 'HTTP_COOKIE';
BROOK_CLT_ENV_HTTP_REFERER
Declaration BROOK_CLT_ENV_HTTP_REFERER = 'HTTP_REFERER';
DDOOM CUT DAW HEED HOLD A CDAW
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';
Deciaration proof-cri-rwalitalitatonitaten since = .Hitalitatonitaten 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>' + 'Error: @error' + '</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

Brook framework, HttpDefs Classes
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10.2 Uses

• HttpDefs

10.3 Types

TBrookReq	
Declaration 7	- TBrookRequest = TRequest;
Description	Alias to TRequest.
TBrookRes	ponse
Declaration 7	TBrookResponse = TResponse;
Description	Alias to TResponse.
${ m TBrookUpl}$	oadedFile
Declaration 7	TBrookUploadedFile = TUploadedFile;
Description	Alias to TUploadedFile.

$TBrookUploadedFiles _$	
1	

Declaration TBrookUploadedFiles = TUploadedFiles;

 ${\bf Description} \ \ {\bf Alias} \ {\bf to} \ {\bf TUploadedFiles}.$

Chapter 11

Unit BrookHttpUtils

11.1 Description

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11.2 Uses

- BrookHttpClient(8)
- $\bullet \ {\tt BrookMessages}(12)$
- BrookHttpConsts(9)
- BrookConsts(6)
- BrookUtils(16)
- 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 AceptEnconding header.

BrookGetAcceptEncoding Returns a string of HTTP AcceptEnconding.

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.

Description Returns a set of HTTP AceptEnconding header.

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

BrookRequestMethodToStr Returns the string corresponding to a TBrookRequestMethod.

BrookStrToRequestMethod Returns the TBrookRequestMethod corresponding to a string.

BrookHttpRequest Perform HTTP requests.

11.4 Functions and Procedures

BrookDate	eTimeToGMT
Declaration	<pre>function BrookDateTimeToGMT(const ADateTime: TDateTime): string;</pre>
Description	Converts TDateTime to a GMT format.
BrookSam	eUrl
Declaration	function BrookSameUrl(AUrl1, AUrl2: string): Boolean;
Description	Compare two URLs ignoring a possible final slash.
BrookStat	usCodeToReasonPhrase
Declaration	function BrookStatusCodeToReasonPhrase(const AStatusCode: Word): string;
Description	Returns the reason phrase corresponding to a status code.
BrookReas	sonPhraseToStatusCode
Declaration	function BrookReasonPhraseToStatusCode(const AReasonPhrase: string): Word;
Description	Returns the status code corresponding to a reason phrase.
${\bf BrookGetAcceptEncodingSet} \ ___$	
Declaration	<pre>function BrookGetAcceptEncodingSet(const AAcceptEncoding: ShortString): TBrookAcceptEncodingSet;</pre>

BrookGetAcceptEncoding _____ Declaration function BrookGetAcceptEncoding(const AAcceptEncoding: TBrookAcceptEncodingSet): string; **Description** Returns a string of HTTP AcceptEnconding. 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. BrookStrToRequestMethod _____ Declaration function BrookStrToRequestMethod(const AMethod: string): TBrookRequestMethod;

Description Returns the TBrookRequestMethod corresponding to a string.

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 BrookMessages

12.1 Description

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12.2 Variables

SBrookInvalidRequestMethodError
Declaration SBrookInvalidRequestMethodError: string = 'Invalid request method: %s';
SBrookItemNotFoundError
Declaration SBrookItemNotFoundError: string = 'Item "%s" not found.';
SBrookFileNotFoundError
Declaration SBrookFileNotFoundError: string = 'File not found: %s';
SBrookNoRequestMethodError
<pre>Declaration SBrookNoRequestMethodError: string = 'No REQUEST_METHOD passed from server.';</pre>
SBrookNoApplicationRegisteredError
Declaration SBrookNoApplicationRegisteredError: string = 'No application registered.';

SBrookApplicationAlreadyRegisteredError		
Declaration	<pre>SBrookApplicationAlreadyRegisteredError: string = 'The application is already registered.';</pre>	
SBrookReg	giterTBrookActionError	
Declaration	<pre>SBrookRegiterTBrookActionError: string = 'Unable to register the type TBrookAction directly.';</pre>	
SBrookAct	tionAlreadyRegisteredError	
Declaration	<pre>SBrookActionAlreadyRegisteredError: string = 'The action "%s" is already registered.';</pre>	
SBrookDef	${f fault Action Already Registered Error}$	
Declaration	<pre>SBrookDefaultActionAlreadyRegisteredError: string = 'There is already a default action registered.';</pre>	
SBrookPat	ternAlreadyRegisteredError	
Declaration	SBrookPatternAlreadyRegisteredError: string = 'There is already an action registered with the pattern "%s".';	
SBrookRo	${f uter Service Already Registered Error}$	
Declaration	<pre>SBrookRouterServiceAlreadyRegisteredError: string = 'The router service is already registered.';</pre>	
SBrookNo	RouterServiceRegisteredError	
Declaration	<pre>SBrookNoRouterServiceRegisteredError: string = 'No router service registered.';</pre>	
SBrookNoRouteRegisteredError		
Declaration	<pre>SBrookNoRouteRegisteredError: string = 'No route registered.';</pre>	
SBrookCfgFileNotFoundError		
Declaration	<pre>SBrookCfgFileNotFoundError: string = 'The config file was not found: "%s"';</pre>	
SBrookNo	tNilError	
Declaration	SBrookNotNilError: string = '"%s" must not be nil.';	

SBrookEm	ptyLibraryNameError
	SBrookEmptyLibraryNameError: string = 'The library name must not be empty.';
${f SBrookMe}$	thodNotAllowedError
Declaration	<pre>SBrookMethodNotAllowedError: string = 'HTTP method not allowed for the requested resource.';</pre>
SBrookCo	nstraintAlreadyRegisteredError
Declaration	SBrookConstraintAlreadyRegisteredError: string = 'The constraint "%s" is already registered.';
SBrookCo	nstraintsServiceAlreadyRegisteredError
	SBrookConstraintsServiceAlreadyRegisteredError: string = 'The constraints service is already registered.';
SBrookNo	ConstraintsServiceRegisteredError
Declaration	SBrookNoConstraintsServiceRegisteredError: string = 'No constraints service registered.';

Chapter 13

Unit BrookMiddleware

13.1 Description

Brook framework, Middleware Classes
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13.2 Uses

- BrookClasses(3)
- BrookAction(1)
- BrookRouter(14)
- BrookException(7)
- HTTPDefs

13.3 Overview

EBrookMiddleware Class Handles exceptions for TBrookMiddleware(13.4).

 ${\tt TBrookMiddleware\ Class\ Intermediates\ two\ classes\ through\ a\ {\tt TBrookExecuteActionEvent\ event}.}$

13.4 Classes, Interfaces, Objects and Records

EBrookMiddleware Class _____

Hierarchy

EBrookMiddleware > EBrook(7.4) > Exception

Description

Handles exceptions for TBrookMiddleware(13.4).

TBrookMiddleware Class _____

Hierarchy

TBrookMiddleware > TBrookObject(3.4) > TObject

Description

Intermediates two classes through a TBrookExecuteActionEvent event.

Methods

Create

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

Description Creates an instance of a TBrookMiddleware(13.4) class.

Execute

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

Description Is triggered when the TBrookExecuteActionEvent event bound in this class is executed.

BindExecution

Declaration public procedure BindExecution(AEvent: PBrookExecuteActionEvent);

Description Bindes a TBrookExecuteActionEvent event to this class keeping the implementation of a previously declared event.

13.5 Types

TBrookMiddlewareClass _____

Declaration TBrookMiddlewareClass = class of TBrookMiddleware;

 $\textbf{Description} \ \ \text{Is a metaclass for $\tt TBrookMiddleware} (13.4) \ class.$

Chapter 14

Unit BrookRouter

14.1 Description

Brook framework, Router Classes
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14.2 Uses

- BrookClasses(3)
- BrookHttpDefs(10)
- BrookException(7)
- BrookAction(1)
- \bullet BrookUtils(16)
- BrookConsts(6)
- $\bullet \ {\tt BrookMessages}(12)$
- BrookHTTPConsts(9)
- HTTPDefs
- ullet Classes
- SysUtils
- StrUtils

14.3 Overview

EBrookRoutes Class Handles exceptions for TBrookRoutes(14.4).

EBrookRouter Class Handles exceptions for TBrookRouter(14.4).

TBrookRoute record Defines a route item.

TBrookRoutes Class Defines a list of routes.

TBrookRouter Class Provides features for the route handling.

14.4 Classes, Interfaces, Objects and Records

EBrookRoutes Class.

Hierarchy

EBrookRoutes > EBrook(7.4) > Exception

Description

Handles exceptions for TBrookRoutes(14.4).

EBrookRouter Class _

Hierarchy

EBrookRouter > EBrook(7.4) > Exception

Description

Handles exceptions for TBrookRouter(14.4).

TBrookRoute record ____

Description

Defines a route item.

Fields

ActionClass ActionClass: TBrookActionClass;

Specifies the class of the action to be called.

Method Method: TBrookRequestMethod;

Specifies a HTTP request method of the action to be called.

Pattern Pattern: string;

Specifies the patter of the action to be called.

TBrookRoutes Class _____

Hierarchy

TBrookRoutes > TBrookObject(3.4) > TObject

Description

Defines a list of routes.

Properties

The list of routes.

Methods

Create

Declaration public constructor Create;

Description Creates an instance of a TBrookRoutes(14.4) class.

Destroy

Declaration public destructor Destroy; override;

Description Frees an instance of TBrookRoutes(14.4) class.

Clear

Declaration public procedure Clear;

Description Clears all routes.

Count

Declaration public function Count: Integer;

Description Returns the number of registered routes.

 \mathbf{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.

${\bf Pattern By Action Class}$

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.

${\bf Action Class By Class Name}$

Declaration public function ActionClassByClassName(const AName: string):

TBrookActionClass;

Description Get an action class from its class name.

TBrookRouter Class ___

Hierarchy

TBrookRouter > TBrookObject(3.4) > TObject

Description

Provides features for the route handling.

Properties

Routes public property Routes: TBrookRoutes read FRoutes write FRoutes;

List of available routes.

AfterExecuteAction public property AfterExecuteAction: TBrookExecuteActionEvent read

FAfterExecuteAction write FAfterExecuteAction;

Is triggered after the router executes a action.

AfterMatchPattern public property AfterMatchPattern: TBrookMatchPatternEvent read

FAfterMatchPattern write FAfterMatchPattern;

Is triggered after the router matches a pattern.

AfterRoute public property AfterRoute: TBrookRouteEvent read FAfterRoute

write FAfterRoute;

Is triggered after the router is routing.

BeforeExecuteAction public property BeforeExecuteAction: TBrookExecuteActionEvent read

FBeforeExecuteAction write FBeforeExecuteAction;

Is triggered before the router executes a action.

BeforeMatchPattern public property BeforeMatchPattern: TBrookMatchPatternEvent read

FBeforeMatchPattern write FBeforeMatchPattern;

Is triggered before the router matches a pattern.

BeforeRoute public property BeforeRoute: TBrookRouteEvent read FBeforeRoute

write FBeforeRoute;

Is triggered before the router is routing.

Methods

Create

Declaration public constructor Create; virtual;

Description Creates an instance of a TBrookRouter(14.4) class.

Destroy

Declaration public destructor Destroy; override;

Description Frees an instance of TBrookRouter(14.4) class.

GetServiceClass

Declaration public class function GetServiceClass: TBrookRouterClass;

Description Return the service class provided by this class.

RegisterService

Declaration public class procedure RegisterService;

Description Registers the service provided by this class.

UnregisterService

Declaration public class procedure UnregisterService;

Description Unregisters the service 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 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:

```
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.

Route

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

Description Runs the route processing.

14.5 Types

TBrookRoutesClass ____

Declaration TBrookRoutesClass = class of TBrookRoutes;

Description Is a metaclass for TBrookRoutes(14.4) class.

TBrookRouterClass ____

Declaration TBrookRouterClass = class of TBrookRouter;

Description Is a metaclass for TBrookRouter(14.4) class.

PBrookRoute ____

Declaration PBrookRoute = ^TBrookRoute;

Description Defines a pointer to the route item.

TBrookMatchPatternEvent ____

Declaration TBrookMatchPatternEvent = procedure(ASender: TObject; APattern, APathInfo: string; out ARedirect: Boolean; out ANames, AValues: TBrookArrayOfString) 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) 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; 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 15

Unit BrookSession

15.1 Description

Brook framework, Session Class Copyright (C) 2014 Silvio Clecio See the file LICENSE.txt, included in this distribution, for details about the copyright. This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

15.2 Uses

- BrookClasses(3)
- BrookHttpDefs(10)
- BrookUtils(16)
- BrookException(7)
- BrookConsts(6)
- Classes
- SysUtils
- HTTPDefs
- DateUtils

15.3 Overview

EBrookSession Class Handles exceptions for TBrookSession(15.4).

TBrookSession Class Defines features to the section handling.

TBrookGSession Class Defines features to the section mapping field values to object.

15.4 Classes, Interfaces, Objects and Records

EBrookSession Class _

Hierarchy

EBrookSession > EBrook(7.4) > Exception

Description

Handles exceptions for TBrookSession(15.4).

TBrookSession Class _

Hierarchy

TBrookSession > TBrookComponent(3.4) > TComponent

Description

Defines features to the section 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.

Fields public property Fields: TStrings read FFields;

The session fields.

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 fieds 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;

The remaining seconds for the session finish.

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.

Methods

Create

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

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

Destroy

Declaration public destructor Destroy; override;

Description Frees an instance of TBrookSession(15.4) class.

GetFields

Declaration public procedure GetFields(AObject: TObject);

Description Get an object with the fields coming from session.

```
IsExpired
Declaration public function IsExpired: Boolean; virtual;
Description Returns True if the session has expired.
IsEmpty
Declaration public function IsEmpty: Boolean; virtual;
Description Returns True if the session fieds is empty.
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.
TBrookGSession Class _
```

TBrookGSession > TBrookSession(15.4) > TBrookComponent(3.4) > TComponent

Hierarchy

Description

Defines features to the section mapping field values to object.

Properties

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

Methods

Create

```
{\bf Declaration\ public\ constructor\ Create(AOwner:\ TComponent);\ override;}
```

Description Creates an instance of a ${\tt TBrookGSession}(15.4)$ class.

Destroy

```
Declaration public destructor Destroy; override;
```

Description Frees an instance of TBrookGSession(15.4) class.

15.5 Types

TBrookSessionClass ____

Declaration TBrookSessionClass = class of TBrookSession;

Description Is a metaclass for TBrookSession(15.4) class.

Chapter 16

Unit BrookUtils

16.1 Description

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16.2 Uses

- BrookException(7)
- BrookMessages(12)
- BrookConsts(6)
- BrookHTTPConsts(9)
- CustWeb
- Classes
- SysUtils
- TypInfo

16.3 Overview

TBrookSettings record Stores the Brook configurations.

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.

16.4 Classes, Interfaces, Objects and Records

TBrookSettings record _____

Description

Stores the Brook configurations.

Fields

Mapped Mapped: Boolean;

Enables the mapping of HTTP request methods.

Charset: ShortString;

Set the default application Charset.

ContentType ContentType: ShortString;

Set the default application Content-Type.

Page404: string;

Set the 404 HTML page. The string will be sent as is.

Page404File Page404File: string;

Set the 404 HTML page file. The file content will be sent. This has higher precedence than TBrookSettings.Page404 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

TBrookSettings.Page404

Page500 Page500: string;

Set the 500 HTML page. The string will be sent as is.

Page500File Page500File: string;

Set the 500 HTML page file. The file content will be sent. This has higher precedence than TBrookSettings.Page500 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

TBrookSettings.Page500

DirectoryForUploads DirectoryForUploads: string;

Set the default directory for uploads.

DeleteUploadedFiles DeleteUploadedFiles: Boolean;

Defines if the temporary uploaded files will be deleted.

KeepUploadedNames KeepUploadedNames: Boolean;

Keeps the original name of the uploaded files.

AcceptsJSONContent AcceptsJSONContent: Boolean;

Defines if the application allows JSON formated requests.

Configuration Configuration: string;

Set a configuration for the application or for its object members.

RootUrl: string;

Set the default root URL. This is used by methods such as TBrookAction.UrlFor, TBrookActionHelper.LinkTo, TBrookActionHelper.ButtonTo etc. By default,

Brook assumes SCRIPT_NAME as root URL.

Port: Word;

Set the default application port.

OnError: TOnShowRequestException;

Handles the application exceptions.

16.5 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 _

Description Get the path level passing the respective index. Exemple: BrookGetPathLavel('/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 AlgnoreCase: 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: **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 AlgnoredProps: 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 AlgnoredProps: 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.

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

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

BrookObjectToStrings _____

overload;

BrookObjectToStrings _____ Declaration procedure BrookObjectToStrings(AObject: TObject; AStrings: TStrings; const AlgnoredProps: 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 AlgnoredProps: 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 AlgnoredProps: 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 AlgnoredProps: TStrings); overload; **Description** Reads the published properties of an object getting the names and values as a list of strings and checking the params.

AFrom, ATo: TObject); overload;

Description Copies the value of all properties from one object to another passing the properties and pro-

Declaration procedure BrookCopyObject(APropList: PPropList; const APropCount: Integer;

BrookCopyObject ___

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 ____

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. 16.6 **Types** TBrookArrayOfString _____ Declaration TBrookArrayOfString = array of string; **Description** Defines an array of strings.

```
TBrookRequestMethod = (...);

Description Defines an enumerator to represent the HTTP request methods.

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

16.7 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; AcceptsJSONContent: False; Configuration: ES; RootUrl: ES; Port: 0;
OnError: nil;);

Description Global variable to store Brook settings.