GameCreator

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

inja::AstNode
inja::BlockNode
inja::ExpressionListNode
inja::ExpressionNode
inja::FunctionNode
inja::JsonNode
inja::LiteralNode
inja::StatementNode
inja::ForStatementNode
inja::ForArrayStatementNode
inja::ForObjectStatementNode
inja::lfStatementNode
inja::IncludeStatementNode
inja::SetStatementNode
inja::TextNode
inja::Environment
inja::FunctionStorage::FunctionData
inja::FunctionStorage
inja::Lexer
inja::NodeVisitor
inja::Renderer
inja::StatisticsVisitor
Page
Area
Category
inja::Parser
runtime_error
inja::InjaError
inja::FileError
inja::JsonError
inja::ParserError
inja::RenderError
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2 Hierarchical Index

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User											 				 						34
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World											 				 						49
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Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Area
inja::AstNode
Base node class for the abstract syntax tree (AST)6
inja::BlockNode
Category
inja::Environment
Class for changing the configuration
inja::ExpressionListNode
inja::ExpressionNode
inja::FileError
inja::ForArrayStatementNode
inja::ForObjectStatementNode
inja::ForStatementNode
inja::FunctionStorage::FunctionData
inja::FunctionNode
inja::FunctionStorage
Class for builtin functions and user-defined callbacks
inja::IfStatementNode
inja::IncludeStatementNode
inja::InjaError
inja::JsonError
inja::JsonNode
inja::Lexer
Class for lexing an inja Template
inja::LiteralNode
inja::NodeVisitor
Page 20
inja::Parser
Class for parsing an inja Template
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inja::Renderer
Class for rendering a Template with data
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nja::TextNode	33
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Helper-class for the inja Lexer	33
Jser	34
JserManager	43
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Chapter 3

Class Documentation

3.1 Area Class Reference

```
#include <area.h>
```

Inheritance diagram for Area:



Public Member Functions

- Area (std::string base_path_, std::string path, nlohmann::json objects)
- nlohmann::json CreatePageData (std::string path)

Additional Inherited Members

3.1.1 Detailed Description

Author

fux

3.1.2 Member Function Documentation

3.1.2.1 CreatePageData()

Calls base-class function for area and CreateObjectPageData for opject.

Parameters

in	path	to area or object.
----	------	--------------------

Returns

json with information.

Reimplemented from Page.

The documentation for this class was generated from the following files:

- · /home/fux/Documents/programming/Der-Zug/src/gui/src/page/area.h
- /home/fux/Documents/programming/Der-Zug/src/gui/src/page/area.cc

3.2 inja::AstNode Class Reference

Base node class for the abstract syntax tree (AST).

#include <inja.hpp>

Inheritance diagram for inja::AstNode:



Public Member Functions

- virtual void accept (NodeVisitor &v) const =0
- AstNode (size_t pos)

Public Attributes

size_t pos

3.2.1 Detailed Description

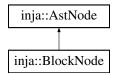
Base node class for the abstract syntax tree (AST).

The documentation for this class was generated from the following file:

• /home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.3 inja::BlockNode Class Reference

Inheritance diagram for inja::BlockNode:



Public Member Functions

· void accept (NodeVisitor &v) const

Public Attributes

std::vector< std::shared_ptr< AstNode >> nodes

The documentation for this class was generated from the following file:

• /home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.4 Category Class Reference

#include <category.h>

Inheritance diagram for Category:



Public Member Functions

- Category (std::string base_path, std::string path)
- nlohmann::json CreatePageData (std::string path)

Additional Inherited Members

3.4.1 Detailed Description

Author

fux Class for all categories. As category is a page refering to other categories not objects.

3.4.2 Member Function Documentation

3.4.2.1 CreatePageData()

Calls base-class function.

Parameters

in	path	to area or object.
----	------	--------------------

Returns

json with information.

Reimplemented from Page.

The documentation for this class was generated from the following files:

- · /home/fux/Documents/programming/Der-Zug/src/gui/src/page/category.h
- · /home/fux/Documents/programming/Der-Zug/src/gui/src/page/category.cc

3.5 inja::Environment Class Reference

Class for changing the configuration.

```
#include <inja.hpp>
```

Public Member Functions

- Environment (const std::string &global_path)
- Environment (const std::string &input_path, const std::string &output_path)
- void set_statement (const std::string &open, const std::string &close)

Sets the opener and closer for template statements.

void set_line_statement (const std::string &open)

Sets the opener for template line statements.

void set expression (const std::string &open, const std::string &close)

Sets the opener and closer for template expressions.

• void set_comment (const std::string &open, const std::string &close)

Sets the opener and closer for template comments.

void set trim blocks (bool trim blocks)

Sets whether to remove the first newline after a block.

void set_lstrip_blocks (bool lstrip_blocks)

Sets whether to strip the spaces and tabs from the start of a line to a block.

void set_search_included_templates_in_files (bool search_in_files)

Sets the element notation syntax.

void set throw at missing includes (bool will throw)

Sets whether a missing include will throw an error.

- Template parse (nonstd::string view input)
- Template parse_template (const std::string &filename)
- Template parse_file (const std::string &filename)
- std::string render (nonstd::string_view input, const json &data)
- std::string render (const Template &tmpl, const json &data)
- std::string render_file (const std::string &filename, const json &data)
- std::string render_file_with_json_file (const std::string &filename, const std::string &filename_data)
- void write (const std::string &filename, const json &data, const std::string &filename_out)
- void write (const Template &temp, const json &data, const std::string &filename_out)
- void write_with_json_file (const std::string &filename, const std::string &filename_data, const std::string &filename out)
- void write_with_json_file (const Template &temp, const std::string &filename_data, const std::string &filename_out)
- std::ostream & render_to (std::ostream &os, const Template &tmpl, const json &data)
- std::string **load_file** (const std::string &filename)
- json load_json (const std::string &filename)
- void add callback (const std::string &name, const CallbackFunction &callback)

Adds a variadic callback.

void add void callback (const std::string &name, const VoidCallbackFunction &callback)

Adds a variadic void callback.

void add_callback (const std::string &name, int num_args, const CallbackFunction &callback)

Adds a callback with given number or arguments.

void add_void_callback (const std::string &name, int num_args, const VoidCallbackFunction &callback)

Adds a void callback with given number or arguments.

void include template (const std::string &name, const Template &tmpl)

3.5.1 Detailed Description

Class for changing the configuration.

3.5.2 Member Function Documentation

3.5.2.1 include template()

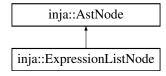
Includes a template with a given name into the environment. Then, a template can be rendered in another template using the include "<name>" syntax.

The documentation for this class was generated from the following file:

• /home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.6 inja::ExpressionListNode Class Reference

Inheritance diagram for inja::ExpressionListNode:



Public Member Functions

- ExpressionListNode (size_t pos)
- · void accept (NodeVisitor &v) const

Public Attributes

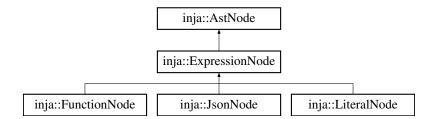
std::vector< std::shared_ptr< ExpressionNode > > rpn_output

The documentation for this class was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.7 inja::ExpressionNode Class Reference

Inheritance diagram for inja::ExpressionNode:



Public Member Functions

- ExpressionNode (size_t pos)
- · void accept (NodeVisitor &v) const

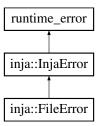
Additional Inherited Members

The documentation for this class was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.8 inja::FileError Struct Reference

Inheritance diagram for inja::FileError:



Public Member Functions

- FileError (const std::string &message)
- FileError (const std::string &message, SourceLocation location)

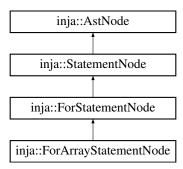
Additional Inherited Members

The documentation for this struct was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.9 inja::ForArrayStatementNode Class Reference

Inheritance diagram for inja::ForArrayStatementNode:



Public Member Functions

- ForArrayStatementNode (const std::string &value, BlockNode *const parent, size_t pos)
- void accept (NodeVisitor &v) const

Public Attributes

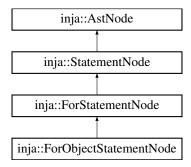
· const std::string value

The documentation for this class was generated from the following file:

• /home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.10 inja::ForObjectStatementNode Class Reference

Inheritance diagram for inja::ForObjectStatementNode:



Public Member Functions

- ForObjectStatementNode (const std::string &key, const std::string &value, BlockNode *const parent, size

 _t pos)
- · void accept (NodeVisitor &v) const

Public Attributes

const std::string key

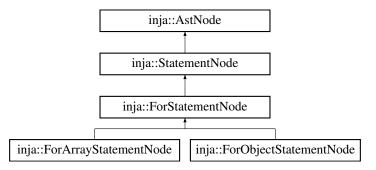
· const std::string value

The documentation for this class was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.11 inja::ForStatementNode Class Reference

Inheritance diagram for inja::ForStatementNode:



Public Member Functions

- ForStatementNode (BlockNode *const parent, size_t pos)
- virtual void accept (NodeVisitor &v) const =0

Public Attributes

- ExpressionListNode condition
- BlockNode body
- BlockNode *const parent

The documentation for this class was generated from the following file:

• /home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.12 inja::FunctionStorage::FunctionData Struct Reference

Public Member Functions

• FunctionData (const Operation &op, const CallbackFunction &cb=CallbackFunction{})

Public Attributes

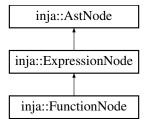
- · const Operation operation
- const CallbackFunction callback

The documentation for this struct was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.13 inja::FunctionNode Class Reference

Inheritance diagram for inja::FunctionNode:



Public Types

enum Associativity { Left, Right }

Public Member Functions

- FunctionNode (nonstd::string_view name, size_t pos)
- FunctionNode (Op operation, size_t pos)
- · void accept (NodeVisitor &v) const

Public Attributes

- · unsigned int precedence
- · Associativity associativity
- · Op operation
- std::string name
- · int number args
- · CallbackFunction callback

The documentation for this class was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.14 inja::FunctionStorage Class Reference

Class for builtin functions and user-defined callbacks.

```
#include <inja.hpp>
```

Classes

struct FunctionData

Public Types

```
    enum Operation {
        Not, And, Or, In,
        Equal, NotEqual, Greater, GreaterEqual,
        Less, LessEqual, Add, Subtract,
        Multiplication, Division, Power, Modulo,
        Atld, At, Default, DivisibleBy,
        Even, Exists, ExistsInObject, First,
        Float, Int, IsArray, IsBoolean,
        IsFloat, IsInteger, IsNumber, IsObject,
        IsString, Last, Length, Lower,
        Max, Min, Odd, Range,
        Round, Sort, Upper, Callback,
        ParenLeft, ParenRight, None }
```

Public Member Functions

- void add_builtin (nonstd::string_view name, int num_args, Operation op)
- void add_callback (nonstd::string_view name, int num_args, const CallbackFunction &callback)
- FunctionData find_function (nonstd::string_view name, int num_args) const

3.14.1 Detailed Description

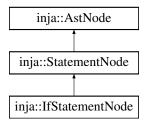
Class for builtin functions and user-defined callbacks.

The documentation for this class was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.15 inja::IfStatementNode Class Reference

Inheritance diagram for inja::IfStatementNode:



Public Member Functions

- IfStatementNode (BlockNode *const parent, size_t pos)
- IfStatementNode (bool is_nested, BlockNode *const parent, size_t pos)
- · void accept (NodeVisitor &v) const

Public Attributes

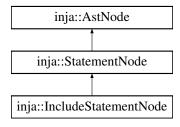
- ExpressionListNode condition
- BlockNode true_statement
- BlockNode false_statement
- BlockNode *const parent
- · const bool is nested
- bool has_false_statement {false}

The documentation for this class was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.16 inja::IncludeStatementNode Class Reference

Inheritance diagram for inja::IncludeStatementNode:



Public Member Functions

- IncludeStatementNode (const std::string &file, size_t pos)
- · void accept (NodeVisitor &v) const

Public Attributes

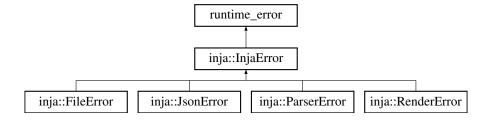
· const std::string file

The documentation for this class was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.17 inja::InjaError Struct Reference

Inheritance diagram for inja::InjaError:



Public Member Functions

- InjaError (const std::string &type, const std::string &message)
- InjaError (const std::string &type, const std::string &message, SourceLocation location)

Public Attributes

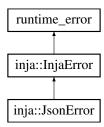
- const std::string type
- · const std::string message
- · const SourceLocation location

The documentation for this struct was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.18 inja::JsonError Struct Reference

Inheritance diagram for inja::JsonError:



Public Member Functions

• JsonError (const std::string &message, SourceLocation location)

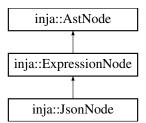
Additional Inherited Members

The documentation for this struct was generated from the following file:

• /home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.19 inja::JsonNode Class Reference

Inheritance diagram for inja::JsonNode:



Public Member Functions

- **JsonNode** (nonstd::string_view ptr_name, size_t pos)
- void accept (NodeVisitor &v) const

Static Public Member Functions

• static std::string convert_dot_to_json_ptr (nonstd::string_view ptr_name)

Public Attributes

· const std::string name

· const json::json_pointer ptr

The documentation for this class was generated from the following file:

• /home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.20 inja::Lexer Class Reference

Class for lexing an inja Template.

```
#include <inja.hpp>
```

Public Member Functions

- Lexer (const LexerConfig &config)
- SourceLocation current position () const
- void **start** (nonstd::string_view input)
- Token scan ()
- const LexerConfig & get_config () const

3.20.1 Detailed Description

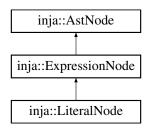
Class for lexing an inja Template.

The documentation for this class was generated from the following file:

• /home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.21 inja::LiteralNode Class Reference

Inheritance diagram for inja::LiteralNode:



Public Member Functions

- LiteralNode (const nlohmann::json &value, size_t pos)
- · void accept (NodeVisitor &v) const

Public Attributes

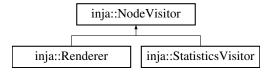
· const nlohmann::json value

The documentation for this class was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.22 inja::NodeVisitor Class Reference

Inheritance diagram for inja::NodeVisitor:



Public Member Functions

- virtual void visit (const BlockNode &node)=0
- virtual void visit (const TextNode &node)=0
- virtual void visit (const ExpressionNode &node)=0
- virtual void visit (const LiteralNode &node)=0
- virtual void **visit** (const JsonNode &node)=0
- virtual void **visit** (const FunctionNode &node)=0
- virtual void visit (const ExpressionListNode &node)=0
- virtual void visit (const StatementNode &node)=0
- virtual void visit (const ForStatementNode &node)=0
- virtual void visit (const ForArrayStatementNode &node)=0
- virtual void visit (const ForObjectStatementNode &node)=0
- virtual void visit (const IfStatementNode &node)=0
- virtual void **visit** (const IncludeStatementNode &node)=0
- virtual void **visit** (const SetStatementNode &node)=0

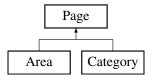
The documentation for this class was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.23 Page Class Reference

```
#include <page.h>
```

Inheritance diagram for Page:



Public Member Functions

- Page (std::string base_path, std::string path)
- virtual nlohmann::json CreatePageData (std::string path)

Protected Member Functions

- void GenerateParentNodes ()
- virtual void GenerateChildNodes ()

Protected Attributes

- std::string base_path_
- std::string path_
- std::string name_
- std::map< std::string, std::string > child_nodes_
- std::map< std::string, std::string > parent_nodes_

3.23.1 Detailed Description

Author

fux Base class for pages. Class is abstract and never instaciated. Also storing all parents and child-nodes.

3.23.2 Member Function Documentation

3.23.2.1 CreatePageData()

Creates data for page: json-data & path to matching templae. Used by category and area, however not for objects.

Parameters

in	path	path to target page.
----	------	----------------------

Returns

json with information.

Reimplemented in Category, and Area.

3.23.2.2 GenerateChildNodes()

```
virtual void Page::GenerateChildNodes ( ) [inline], [protected], [virtual]
```

Updates all child-nodes. (Virtual add different for category/ area.)

3.23.2.3 GenerateParentNodes()

```
void Page::GenerateParentNodes ( ) [protected]
```

Generates all parents. (Identical for category and area.)

3.23.3 Member Data Documentation

3.23.3.1 child_nodes_

```
std::map<std::string, std::string> Page::child_nodes_ [protected]
```

Child nodes. key: url-path, value: child-name.

3.23.3.2 parent_nodes_

```
std::map<std::string, std::string> Page::parent_nodes_ [protected]
```

Parent nodes. key: url-path, value: parent-name.

The documentation for this class was generated from the following files:

- · /home/fux/Documents/programming/Der-Zug/src/gui/src/page/page.h
- $\bullet \ \ / home/fux/Documents/programming/Der-Zug/src/gui/src/page/page.cc$

3.24 inja::Parser Class Reference

Class for parsing an inja Template.

#include <inja.hpp>

Public Member Functions

- Parser (const ParserConfig &parser_config, const LexerConfig &lexer_config, TemplateStorage &template ← _storage, const FunctionStorage &function_storage)
- Template parse (nonstd::string_view input, nonstd::string_view path)
- Template parse (nonstd::string_view input)
- void parse_into_template (Template &tmpl, nonstd::string_view filename)
- std::string load file (nonstd::string view filename)

3.24.1 Detailed Description

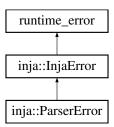
Class for parsing an inja Template.

The documentation for this class was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.25 inja::ParserError Struct Reference

Inheritance diagram for inja::ParserError:



Public Member Functions

• ParserError (const std::string &message, SourceLocation location)

Additional Inherited Members

The documentation for this struct was generated from the following file:

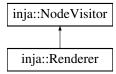
/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.26 inja::Renderer Class Reference

Class for rendering a Template with data.

```
#include <inja.hpp>
```

Inheritance diagram for inja::Renderer:



Public Member Functions

- Renderer (const RenderConfig &config, const TemplateStorage &template_storage, const FunctionStorage &function_storage)
- void render_to (std::ostream &os, const Template &tmpl, const json &data, json *loop_data=nullptr)

3.26.1 Detailed Description

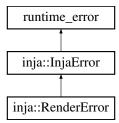
Class for rendering a Template with data.

The documentation for this class was generated from the following file:

• /home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.27 inja::RenderError Struct Reference

Inheritance diagram for inja::RenderError:



Public Member Functions

RenderError (const std::string &message, SourceLocation location)

Additional Inherited Members

The documentation for this struct was generated from the following file:

· /home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.28 ServerFrame Class Reference

```
#include <server_frame.h>
```

Public Member Functions

- ServerFrame ()
- UserManager & user_manager ()
- void Start (int port)
- void LoginPage (const httplib::Request &req, httplib::Response &resp) const
- void DoLogin (const httplib::Request &req, httplib::Response &resp)
- void DoRegistration (const httplib::Request &req, httplib::Response &resp)
- void DoLogout (const httplib::Request &req, httplib::Response &resp)
- void DelUser (const httplib::Request &req, httplib::Response &resp)

Deletes a user. User is deleted on own request.

- void ServeFile (const httplib::Request &req, httplib::Response &resp, bool backup=false) const
- void AddElem (const httplib::Request &req, httplib::Response &resp)

Add new element (world, subcategory, object).

void DelElem (const httplib::Request &req, httplib::Response &resp)

Delete element (world, subcategory, object).

void WriteObject (const httplib::Request &req, httplib::Response &resp)

Write (modified) object.

void Backups (const httplib::Request &req, httplib::Response &resp, std::string action)

Creates a backup of the selected world.

void GrantAccessTo (const httplib::Request &req, httplib::Response &resp)

Grants given user access to world of other user.

• void CreateRequest (const httplib::Request &req, httplib::Response &resp)

Grants given user access to world of other user.

void CheckRunning (const httplib::Request &req, httplib::Response &resp)

Checks whether game is still running.

void GetLog (const httplib::Request ®, httplib::Response &resp)

Checks whether game is still running.

void StartGame (const httplib::Request &req, httplib::Response &resp)

Checks whether game is still running.

• bool IsRunning ()

Gives feedback on whether server is still running

void Stop ()

Makes server stop running.

∼ServerFrame ()

Destructor, which stops server.

3.28.1 Detailed Description

Author

fux

3.28.2 Constructor & Destructor Documentation

3.28.2.1 ServerFrame()

```
ServerFrame::ServerFrame ( )
```

Constructor. Creating user_manager with path to user-data and possible categories.

3.28.3 Member Function Documentation

3.28.3.1 AddElem()

Add new element (world, subcategory, object).

Parameters

in	req	(reference to request)
in,out	resp	(reference to response)

3.28.3.2 Backups()

Creates a backup of the selected world.

Parameters

in	req	(reference to request)
in, out	resp	(reference to response)

Generated by Doxygen

3.28.3.3 CheckRunning()

Checks whether game is still running.

Parameters

in	req	(reference to request)
in,out	resp	(reference to response)

3.28.3.4 CreateRequest()

Grants given user access to world of other user.

Parameters

in	req	(reference to request)
in,out	resp	(reference to response)

3.28.3.5 DelElem()

Delete element (world, subcategory, object).

Parameters

in	req	(reference to request)
in,out	resp	(reference to response)

3.28.3.6 DelUser()

Deletes a user. User is deleted on own request.

Parameters

in	req	(reference to request)
in,out	resp	(reference to response)

3.28.3.7 DoLogin()

function to handle login

Parameters

in	req	(reference to request)
in,out	resp	(server response)
in	user_manager	(user_manager to check whether user exists)

3.28.3.8 DoLogout()

logout a user

Parameters

in	req	(reference to request)
in,out	resp	(server response)

3.28.3.9 DoRegistration()

```
void ServerFrame::DoRegistration (
```

```
const httplib::Request & req,
httplib::Response & resp )
```

function to handle registration

Parameters

in	req	(reference to request)
in,out	resp	(server response)

3.28.3.10 GetLog()

Checks whether game is still running.

Parameters

in	req	(reference to request)
in,out	resp	(reference to response)

3.28.3.11 GrantAccessTo()

Grants given user access to world of other user.

Parameters

in	req	(reference to request)
in,out	resp	(reference to response)

3.28.3.12 IsRunning()

```
bool ServerFrame::IsRunning ( )
```

Gives feedback on whether server is still running

Returns

boolean

3.28.3.13 LoginPage()

Function to send login page, or overview page, depending on status: logged in/ not logged in.

Parameters

in	req	(reference to request)
in,out	resp	(server response)

3.28.3.14 ServeFile()

Function to send all pages (except login and start page). Redirect to login depending on status: logged in/ not logged in.

Parameters

in	req	(reference to request)
in,out	resp	(server response)

3.28.3.15 Start()

Starts server. Server is started on given port. Also handlers are initialized.

Parameters

in	port	(Port to start server on)

3.28.3.16 StartGame()

Checks whether game is still running.

Parameters

in	req	(reference to request)
in,out	resp	(reference to response)

3.28.3.17 WriteObject()

Write (modified) object.

Parameters

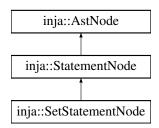
in	req	(reference to request)
in,out	resp	(reference to response)

The documentation for this class was generated from the following files:

- /home/fux/Documents/programming/Der-Zug/src/gui/src/server/server_frame.h
- /home/fux/Documents/programming/Der-Zug/src/gui/src/server/server_frame.cc

3.29 inja::SetStatementNode Class Reference

Inheritance diagram for inja::SetStatementNode:



Public Member Functions

- SetStatementNode (const std::string &key, size_t pos)
- · void accept (NodeVisitor &v) const

Public Attributes

- · const std::string key
- ExpressionListNode expression

The documentation for this class was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.30 inja::SourceLocation Struct Reference

Public Attributes

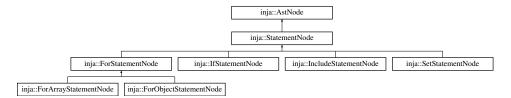
- · size t line
- size_t column

The documentation for this struct was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.31 inja::StatementNode Class Reference

Inheritance diagram for inja::StatementNode:



Public Member Functions

- StatementNode (size_t pos)
- virtual void accept (NodeVisitor &v) const =0

Additional Inherited Members

The documentation for this class was generated from the following file:

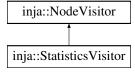
/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.32 inja::StatisticsVisitor Class Reference

A class for counting statistics on a Template.

```
#include <inja.hpp>
```

Inheritance diagram for inja::StatisticsVisitor:



Public Attributes

· unsigned int variable counter

Additional Inherited Members

3.32.1 Detailed Description

A class for counting statistics on a Template.

The documentation for this class was generated from the following file:

• /home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.33 inja::Template Struct Reference

The main inja Template.

```
#include <inja.hpp>
```

Public Member Functions

- Template (const std::string &content)
- int count_variables ()

Return number of variables (total number, not distinct ones) in the template.

Public Attributes

- BlockNode root
- · std::string content

3.33.1 Detailed Description

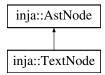
The main inja Template.

The documentation for this struct was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.34 inja::TextNode Class Reference

Inheritance diagram for inja::TextNode:



Public Member Functions

- TextNode (size_t pos, size_t length)
- void accept (NodeVisitor &v) const

Public Attributes

· const size_t length

The documentation for this class was generated from the following file:

• /home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.35 inja::Token Struct Reference

Helper-class for the inja Lexer.

```
#include <inja.hpp>
```

Public Types

enum Kind {
 Text, ExpressionOpen, ExpressionClose, LineStatementOpen,
 LineStatementClose, StatementOpen, StatementClose, CommentOpen,
 CommentClose, Id, Number, String,
 Plus, Minus, Times, Slash,
 Percent, Power, Comma, Dot,
 Colon, LeftParen, RightParen, LeftBracket,
 RightBracket, LeftBrace, RightBrace, Equal,
 NotEqual, GreaterThan, GreaterEqual, LessThan,
 LessEqual, Unknown, Eof }

Public Member Functions

- constexpr Token (Kind kind, nonstd::string_view text)
- · std::string describe () const

Public Attributes

- Kind kind {Kind::Unknown}
- nonstd::string_view text

3.35.1 Detailed Description

Helper-class for the inja Lexer.

The documentation for this struct was generated from the following file:

/home/fux/Documents/programming/Der-Zug/src/gui/src/users/inja.hpp

3.36 User Class Reference

#include <user.h>

Public Member Functions

- User (std::string username, std::string pw, std::string path, std::vector< std::string > categories)
- User (std::string username, std::string pw, std::string path, std::vector< std::string > locations, std::vector< std::string > categories)
- const std::string username () const
- std::string password () const
- std::map< std::string, int > & worlds ()
- const std::vector< std::string > & locations () const
- void set_password (std::string password)
- void AddLocation (std::string user, std::string world)
- std::string GetOverview (nlohmann::json shared_worlds, nlohmann::json all_worlds)
- std::string GetWorld (std::string path, std::string user, std::string world, int port)

Get Overview of categories in one world.

- std::string GetCategory (std::string path, std::string user, std::string world, std::string category)
- std::string GetBackups (std::string user, std::string world)
- std::string GetObjects (std::string path, std::string user, std::string world, std::string category, std::string sub)
- std::string GetObject (std::string path, std::string user, std::string world, std::string category, std::string sub, std::string obj)
- int CreateNewWorld (std::string name, int port)

Creates a new world for this user.

int AddFile (std::string path, std::string name)

Adds new file to category Adds new file and tries to create json matching category.

int AddNewObject (std::string path, std::string id, bool force=false)

Adds a new empty object.

int WriteObject (std::string request)

3.36 User Class Reference 35

- int DeleteWorld (std::string world)
- int DeleteFile (std::string path, std::string subcategory)
- int DeleteObject (std::string path, std::string object)
- void SafeUser () const
- bool CheckAccessToLocations (std::string path)
- int CreateBackup (std::string user, std::string world)
- int RestoreBackup (std::string user, std::string backup)
- int DeleteBackup (std::string user, std::string backup)
- bool CheckGameRunning (std::string path)
- int GetPortOfWorld (std::string path)
- bool AddRequest (std::string user, std::string world)
- void RemoveRequest (std::string user, std::string world)

3.36.1 Detailed Description

Author

fux

3.36.2 Constructor & Destructor Documentation

3.36.2.1 User() [1/2]

```
User::User (
         std::string name,
         std::string pw,
         std::string path,
         std::vector< std::string > cats )
```

Constructor creating a (new) user.

Parameters

in	username.	
in	pw	(password).
in	path	(path to folders).
in	categories	(all currently available categories)

Author

fux

3.36.2.2 User() [2/2]

```
std::string pw,
std::string path,
std::vector< std::string > locations,
std::vector< std::string > categories )
```

Constructor creating a (new) user.

Parameters

in	username.	
in	pw	(password).
in	path	(path to folders).
in	locations	(locations available for this user).
in	categories	(all currently available categories)

3.36.3 Member Function Documentation

3.36.3.1 AddFile()

Adds new file to category Adds new file and tries to create json matching category.

Parameters

path	
name	

Returns

error code.

3.36.3.2 AddLocation()

Add a new location. Adds a new location (a new world) to list of locations by adding path: "[new_\circ\u00ed username]/files/[new_world]" to locations.

3.36 User Class Reference 37

Parameters

in	user	(user who granted access)
in	world	(new world which is added)

3.36.3.3 AddNewObject()

Adds a new empty object.

Parameters

path	
id	
force	

Returns

ErrorCode.

3.36.3.4 AddRequest()

Adds a new access-request.

Parameters

in	user	(user who asks for access)
in	world	(world to gran access for)

Returns

success.

3.36.3.5 CheckAccessToLocations()

Check whether user has access to given path.

Parameters

```
in path.
```

3.36.3.6 CheckGameRunning()

Tries to run game. Extracts user and world from path and tries to run game with all existing players.

Parameters

in	path	(path to extract information from)
in	number	(of players to check)

Returns

boolean indicating success.

3.36.3.7 CreateBackup()

Create a backup of given world.

Parameters

in	user	
in	world	

Returns

ErrorCode.

3.36 User Class Reference 39

3.36.3.8 CreateNewWorld()

Creates a new world for this user.

Parameters

name	(Name of the world)
port	

Returns

Success code.

3.36.3.9 DeleteBackup()

Delete a backup of given world.

Parameters

in	user	
in	backup	

Returns

ErrorCode.

3.36.3.10 DeleteFile()

delete a given file (subcategory)

Parameters

in	path	(path to category)
in	subcategory	return ErrorCode.

3.36.3.11 DeleteObject()

delete a given object

Parameters

in	path	(path to json)
in	object	(object to delete from json) return ErrorCode.

3.36.3.12 DeleteWorld()

delete a given file (subcategory)

Parameters

in	world	return ErrorCode.

3.36.3.13 GetBackups()

Get Overview of a backups. (f.e. world1/rooms = trainstation, hospital...)

Parameters

in	user	
in	world	

Returns

overview page of all backups

3.36 User Class Reference 41

3.36.3.14 GetCategory()

```
std::string User::GetCategory (
    std::string path,
    std::string user,
    std::string world,
    std::string category )
```

Get Overview of a category. (f.e. world1/rooms = trainstation, hospital...)

3.36.3.15 GetObjects()

```
std::string User::GetObjects (
    std::string path,
    std::string user,
    std::string world,
    std::string category,
    std::string sub )
```

Get Overview of a SubCategory. (f.e. world1/rooms/trainstation = platform a, great_hall ...)

3.36.3.16 GetOverview()

Gets all worlds and parses them into the overview page.

Parameters

in	shared_worlds	(json with all shared_worlds and ports)
in	all_worlds	(json with all worlds and ports)

Returns

overview-page.

3.36.3.17 GetPortOfWorld()

Get a attribute of a certain world

Parameters

in	path	(path to world)
7	attr	
T11	alli	

Generated by Doxygen

3.36.3.18 GetWorld()

```
std::string User::GetWorld (
    std::string path,
    std::string user,
    std::string world,
    int port )
```

Get Overview of categories in one world.

Parameters

path	(path to current world)	
world	(name of accessed world)	
port	(port of world, as it might not be the current users port)	

Returns

HTML page or empty string.

3.36.3.19 RemoveRequest()

Removes an access-request.

Parameters

in	user	(user who asks for access)
in	world	(world to gran access for)

Returns

success.

3.36.3.20 RestoreBackup()

Restores a backup of given world.

Parameters

in	user	
in	backup	(given backup to restore)

Returns

ErrorCode.

3.36.3.21 SafeUser()

```
void User::SafeUser ( ) const
```

Write users jsons to disc.

3.36.3.22 WriteObject()

Write json to disc. Used to create a new object or overwrite an existsing object.

Parameters

in	request	(request to create new, or change existsing)
in	force	(If true, then writing is set even if game is not running.)

Returns

ErrorCode.

The documentation for this class was generated from the following files:

- $\bullet \ \ /home/fux/Documents/programming/Der-Zug/src/gui/src/users/user.h$
- /home/fux/Documents/programming/Der-Zug/src/gui/src/users/user.cc

3.37 UserManager Class Reference

#include <user_manager.h>

Public Member Functions

- UserManager (std::string path, std::vector< std::string > categories)
- User * GetUser (std::string username) const
- void DeleteUser (std::string username)
- bool DoLogout (const char *ptr)
- std::string DoLogin (std::string username, std::string password)
- std::string DoRegistration (std::string username, std::string pw1, std::string pw2)
- std::string GenerateCookie (std::string username)
- std::string GetUserFromCookie (const char *ptr) const
- int GrantAccessTo (std::string user1, std::string user2, std::string world)
- int GetNextPort ()
- nlohmann::json GetAllWorlds (std::string username) const
- nlohmann::json GetSharedWorlds (std::string username) const
- int GetPortOfWorld (std::string user, std::string world) const
- · std::string GetPage (std::string path) const

3.37.1 Detailed Description

Author

fux class storing all users. TODO (fux): replace this class with a database.

3.37.2 Constructor & Destructor Documentation

3.37.2.1 UserManager()

constructor loading all users stored on disc.

Author

fux

3.37.3 Member Function Documentation

3.37.3.1 DeleteUser()

detele user. deletes object, erases from map and delete users jsons file.

Parameters

```
in username
```

3.37.3.2 DoLogin()

Check whether login was successful. Return error if not.

Parameters

username	
password	

Returns

error or empty string

3.37.3.3 DoLogout()

```
bool UserManager::DoLogout ( {\tt const\ char\ *\ ptr\ )}
```

Logout user. try to get user from cookie. Logout user, reset controller update interval and erase cookie. If user does not exist, try only to delete cookie from map.

Parameters

```
in cookie.
```

Returns

false if cookie does not exist in map.

3.37.3.4 DoRegistration()

```
std::string pw1,
std::string pw2 )
```

Check whether registration was successful. Return error or empty string.

Parameters

username	
pw1	
pw2	

Returns

error code or empty string.

3.37.3.5 GenerateCookie()

Create random 32 characters to generates cookie. And maps cookie and given user.

Parameters

in	username	(username which is mapped on cookie)
----	----------	--------------------------------------

Returns

returns cookie as string.

3.37.3.6 GetAllWorlds()

Get all worlds. Array of jsons returned with values: user, name (of world) and port.

Parameters

```
in user to create list for. return json
```

3.37.3.7 GetNextPort()

```
int UserManager::GetNextPort ( )
```

Returns next port.

3.37.3.8 GetSharedWorlds()

Get all shared worlds of a user. Array of jsons returned with values: user, name (of world) and port.

Parameters

in	user	to create list for. return json
----	------	---------------------------------

3.37.3.9 GetUser()

Returns given user, if exists

Parameters

```
in username
```

Returns

user, if exists, nullptr otherwise

3.37.3.10 GetUserFromCookie()

Get user from cookie.

Parameters

in resp (reference to response)

Returns

username, "\$no_cookie" or "\$no_user"

3.38 World Class Reference 49

3.37.3.11 GrantAccessTo()

```
int UserManager::GrantAccessTo (
    std::string user1,
    std::string user2,
    std::string world )
```

Grant other user acces to a own world.

Parameters

in	user1	(user which gives access world to)
in	user2	(user to give access to)
in	world	(world which to grant access to)

Returns

error_code

The documentation for this class was generated from the following files:

- /home/fux/Documents/programming/Der-Zug/src/gui/src/users/user_manager.h
- /home/fux/Documents/programming/Der-Zug/src/gui/src/users/user_manager.cc

3.38 World Class Reference

```
#include <world.h>
```

Public Member Functions

- World (std::string base_path, std::string path, int port)
- ∼World ()
- int port ()
- nlohmann::json GetPage (std::string path)

3.38.1 Detailed Description

Author

fux Class storing all pages and information of a world.

3.38.2 Constructor & Destructor Documentation

3.38.2.1 World()

```
World::World (
    std::string base_path,
    std::string path,
    int port )
```

Constructor generating all pages.

Parameters

in base_path to user-directory.

3.38.2.2 ∼World()

```
World::\simWorld ( )
```

Destructor deleteing all pages.

3.38.3 Member Function Documentation

3.38.3.1 GetPage()

Calls GetPage value of referenced page and add short paths to data-json.

Parameters

in	path	to category/area/object.
----	------	--------------------------

Returns

json with page-data, path to template and short-paths.

The documentation for this class was generated from the following files:

- /home/fux/Documents/programming/Der-Zug/src/gui/src/world/world.h
- /home/fux/Documents/programming/Der-Zug/src/gui/src/world/world.cc

3.39 Worlds Class Reference

```
#include <worlds.h>
```

Public Member Functions

- Worlds (std::string base_path, int start_port)
- ∼Worlds ()
- std::string GetPage (std::string path)

3.39.1 Detailed Description

Author

fux Class storing all existing worlds by it's full path. Full path means: [base_path]/[user]/files/[world] Apart from storing, the class redirects all requests to the matching world and assignes port to every world, to potentially run on.

3.39.2 Constructor & Destructor Documentation

3.39.2.1 Worlds()

Constructor, loading all worlds.

Parameters

in	base_path	to user-directories.
in	start_port	from which to increment and assign ports.

3.39.2.2 ∼Worlds()

```
Worlds::\simWorlds ( )
```

Destructor deleteing all worlds.

3.39.3 Member Function Documentation

3.39.3.1 GetPage()

Seves page of requested category/ object. Acctually get json-data and path to tempate, then calls ParseTemplate().

Parameters

in	path	(url)

Returns

rendered page.

The documentation for this class was generated from the following files:

• /home/fux/Documents/programming/Der-Zug/src/gui/src/world/worlds.h

• /home/fux/Documents/programming/Der-Zug/src/gui/src/world/worlds.cc

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