## jsonToBatProject 0.2.0

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# **Bug List**

#### Class batch::BatchCreator

HideShell is not implemented correctly

#### Namespace json

Name to similiar to "Json" namespace from the json library.

#### Member main (int argc, char \*argv[])

Initielizes to early for config file to be loaded

Getopt is not working on Windows.

### Member utils::StartupHandler::getOptions (int argc, char \*argv[])

Global verbose flag is not working.

#### Member utils::StartupHandler::initEasyLogging ()

Easylogging conf only recognized when running application from source dir

2 **Bug List** 

## **Todo List**

Member json::JSONHandler::assignHideShell () const

: Error handling if not found

Member utils::StartupHandler::getOptions (int argc, char \*argv[])

Implement functionality for the options.

- Implement/Add more options.
- Shorten function and outsource functionality to other functions.

Member utils::StartupHandler::initEasyLogging ()

Improve easylogging configuration

**Todo List** 

# **Namespace Index**

## 3.1 Namespace List

Here is a list of all namespaces with brief descriptions:

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	Namespace for utility functions	12

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# **Class Index**

### 4.1 Class List

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# **Namespace Documentation**

## 6.1 batch Namespace Reference

#### Classes

· class BatchCreator

### 6.2 clinterface Namespace Reference

#### Classes

class CliHandler

## 6.3 json Namespace Reference

json namespace

#### Classes

- class JSONData
- class JSONHandler

JSONHandler class.

#### 6.3.1 Detailed Description

json namespace

The json namespace contains all classes and functions related to the json parsing and handling.

Bug Name to similiar to "Json" namespace from the json library.

## 6.4 utils Namespace Reference

Namespace for utility functions.

#### Classes

• class StartupHandler

Handles startup task for the application.

#### **Variables**

• static int verbose = 0

### 6.4.1 Detailed Description

Namespace for utility functions.

This namespace contains utility functions for the application. Currently, it contains the StartupHandler class.

#### 6.4.2 Variable Documentation

#### 6.4.2.1 verbose

```
int utils::verbose = 0 [static]
```

Definition at line 11 of file StartupHandler.cpp.

## **Class Documentation**

### 7.1 batch::BatchCreator Class Reference

```
#include <BatchCreator.hpp>
```

#### **Public Member Functions**

- BatchCreator (std::shared\_ptr< json::JSONData > jsonData)
- std::shared\_ptr< std::ofstream > createBatchFile ()

#### **Private Member Functions**

- void writeHideShellStart ()
- void writeHideShellEnd ()
- void writeShell ()
- void writeCommands ()
- void writeEnvironmentVariables ()
- void writePathValue ()
- void writeApplication ()

#### **Private Attributes**

- std::shared ptr< json::JSONData > jsonData
- std::shared\_ptr< std::ofstream > batchFile = nullptr

#### 7.1.1 Detailed Description

**Bug** HideShell is not implemented correctly

Definition at line 10 of file BatchCreator.hpp.

#### 7.1.2 Constructor & Destructor Documentation

#### 7.1.2.1 BatchCreator()

#### 7.1.3 Member Function Documentation

#### 7.1.3.1 createBatchFile()

```
std::shared_ptr< std::ofstream > batch::BatchCreator::createBatchFile ( )
```

Here is the caller graph for this function:



#### 7.1.3.2 writeApplication()

```
void batch::BatchCreator::writeApplication ( ) [private]
```

#### 7.1.3.3 writeCommands()

```
void batch::BatchCreator::writeCommands ( ) [private]
```

#### 7.1.3.4 writeEnvironmentVariables()

```
void batch::BatchCreator::writeEnvironmentVariables ( ) [private]
```

#### 7.1.3.5 writeHideShellEnd()

```
void batch::BatchCreator::writeHideShellEnd ( ) [private]
```

#### 7.1.3.6 writeHideShellStart()

void batch::BatchCreator::writeHideShellStart ( ) [private]

#### 7.1.3.7 writePathValue()

```
void batch::BatchCreator::writePathValue ( ) [private]
```

#### 7.1.3.8 writeShell()

```
void batch::BatchCreator::writeShell ( ) [private]
```

#### 7.1.4 Member Data Documentation

#### 7.1.4.1 batchFile

```
std::shared_ptr<std::ofstream> batch::BatchCreator::batchFile = nullptr [private]
```

Definition at line 18 of file BatchCreator.hpp.

#### 7.1.4.2 jsonData

```
std::shared_ptr<json::JSONData> batch::BatchCreator::jsonData [private]
```

Definition at line 17 of file BatchCreator.hpp.

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

• src/headers/BatchCreator.hpp

#### 7.2 clinterface::CliHandler Class Reference

```
#include <CliHandler.hpp>
```

#### 7.2.1 Detailed Description

Definition at line 10 of file CliHandler.hpp.

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

• src/headers/CliHandler.hpp

### 7.3 json::JSONData Class Reference

```
#include <JSONData.hpp>
```

#### **Public Member Functions**

void setOutputFile (std::string &newOutputfile)

Set's the output file.

void setHideShell (bool newHideShell)

Set's the hide shell flag.

void setApplication (const std::string &newApplication)

Set's the application.

void addCommand (const std::string &command)

Add a command to the commands vector.

void addEnvironmentVariable (const std::string &name, const std::string &value)

Add an environment variable to the environment Variables vector.

void addPathValue (const std::string &pathValue)

Add a path value to the pathValues vector.

const std::string & getOutputFile () const

Get the output file.

• bool getHideShell () const

Get the hide shell flag.

const std::optional < std::string > & getApplication () const

Get the application.

const std::vector< std::string > & getCommands () const

Get the commands.

- const std::vector< std::tuple< std::string, std::string > > & getEnvironmentVariables () const
   Get the environment variables.
- const std::vector< std::string > & getPathValues () const

Get the path values.

#### **Private Attributes**

- std::string outputfile
- bool hideShell
- std::optional < std::string > application
- std::vector< std::string > commands
- $\bullet \ \ \mathsf{std} :: \mathsf{vector} < \mathsf{std} :: \mathsf{tuple} < \mathsf{std} :: \mathsf{string}, \ \mathsf{std} :: \mathsf{string} > > \underbrace{\mathsf{environmentVariables}}$
- std::vector< std::string > pathValues

#### **Static Private Attributes**

• static const int8 t suffixLength = 4

#### 7.3.1 Detailed Description

Definition at line 10 of file JSONData.hpp.

#### 7.3.2 Member Function Documentation

#### 7.3.2.1 addCommand()

Add a command to the commands vector.

#### **Parameters**

#### **Exceptions**

std::invalid_argument	if the command is empty
-----------------------	-------------------------

Definition at line 37 of file JSONData.cpp.

References commands.

#### 7.3.2.2 addEnvironmentVariable()

Add an environment variable to the environment Variables vector.

The environment variable is added as a tuple with the name and value as it's elements.

#### **Parameters**

name	The name of the environment variable
value	The value of the environment variable

#### **Exceptions**

std::invalid_argument   if the nam	ne or the value is empty
------------------------------------	--------------------------

Definition at line 46 of file JSONData.cpp.

References environmentVariables.

#### 7.3.2.3 addPathValue()

Add a path value to the pathValues vector.

#### **Parameters**

pathValue	The path value

#### **Exceptions**

Definition at line 57 of file JSONData.cpp.

References pathValues.

#### 7.3.2.4 getApplication()

Get the application.

Returns

The application

Definition at line 90 of file JSONData.hpp.

References application.

#### 7.3.2.5 getCommands()

```
\verb|const| std::vector<| std::string| > & json::JSONData::getCommands| ( ) const| [inline]|
```

Get the commands.

Returns

The commands

Definition at line 98 of file JSONData.hpp.

References commands.

#### 7.3.2.6 getEnvironmentVariables()

```
const std::vector< std::tuple< std::string, std::string > > % json::JSONData::getEnvironment \leftrightarrow Variables ( ) const [inline]
```

Get the environment variables.

Returns

The environment variables

Definition at line 107 of file JSONData.hpp.

References environmentVariables.

#### 7.3.2.7 getHideShell()

```
bool json::JSONData::getHideShell ( ) const [inline]
```

Get the hide shell flag.

Returns

The hide shell flag

Definition at line 82 of file JSONData.hpp.

References hideShell.

#### 7.3.2.8 getOutputFile()

```
const std::string & json::JSONData::getOutputFile ( ) const [inline]
```

Get the output file.

Returns

The output file

Definition at line 74 of file JSONData.hpp.

References outputfile.

#### 7.3.2.9 getPathValues()

Get the path values.

Returns

The path values

Definition at line 115 of file JSONData.hpp.

References pathValues.

#### 7.3.2.10 setApplication()

Set's the application.

#### **Parameters**

Definition at line 30 of file JSONData.cpp.

References application.

#### 7.3.2.11 setHideShell()

Set's the hide shell flag.

#### **Parameters**

hideShell	The hide shell flag
-----------	---------------------

Definition at line 29 of file JSONData.hpp.

References hideShell.

#### 7.3.2.12 setOutputFile()

Set's the output file.

Note

If the output file does not end with .bat, the function will append .bat to the output file.

#### Parameters

outputfile	The output file

#### **Exceptions**

std::invalid_argument	if the outputfile is empty
std::invalid_argument	if the outputfile is already set

Definition at line 7 of file JSONData.cpp.

References outputfile, and suffixLength.

#### 7.3.3 Member Data Documentation

#### 7.3.3.1 application

```
std::optional<std::string> json::JSONData::application [private]
```

Definition at line 122 of file JSONData.hpp.

#### 7.3.3.2 commands

```
std::vector<std::string> json::JSONData::commands [private]
```

Definition at line 123 of file JSONData.hpp.

#### 7.3.3.3 environmentVariables

```
std::vector<std::tuple<std::string, std::string> > json::JSONData::environmentVariables [private]
```

Definition at line 124 of file JSONData.hpp.

#### 7.3.3.4 hideShell

```
bool json::JSONData::hideShell [private]
```

Definition at line 121 of file JSONData.hpp.

#### 7.3.3.5 outputfile

```
std::string json::JSONData::outputfile [private]
```

Definition at line 120 of file JSONData.hpp.

#### 7.3.3.6 pathValues

```
std::vector<std::string> json::JSONData::pathValues [private]
```

Definition at line 125 of file JSONData.hpp.

#### 7.3.3.7 suffixLength

```
const int8_t json::JSONData::suffixLength = 4 [static], [private]
```

Definition at line 126 of file JSONData.hpp.

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

- src/headers/JSONData.hpp
- src/sources/JSONData.cpp

#### 7.4 json::JSONHandler Class Reference

#### JSONHandler class.

```
#include <JSONHandler.hpp>
```

#### **Public Member Functions**

• JSONHandler (const std::string &filename)

Constructor.

• std::shared\_ptr< JSONData > getJSONData ()

Retrieve the JSONData object.

#### **Private Member Functions**

 std::shared\_ptr< Json::Value > parseFile (const std::string &filename) const Parse a file.

· void assignOutputFile () const

Assigns the output file to the JSONData object.

· void assignHideShell () const

Assigns the hide shell value to the JSONData object.

void assignApplication () const

Assigns the application to the JSONData object.

• void assignEntries () const

Assigns the entries to the JSONData object.

· void assignCommand (const Json::Value &entry) const

Assigns a command to the JSONData object.

• void assignEnvironmentVariable (const Json::Value &entry) const

Assigns an environment variable to the JSONData object.

void assignPathValue (const Json::Value &entry) const

Assigns a path value to the JSONData object.

std::shared\_ptr< JSONData > createJSONData ()

Creates a JSONData object.

#### **Private Attributes**

- std::shared ptr< Json::Value > root
- std::shared\_ptr< JSONData > data

#### 7.4.1 Detailed Description

#### JSONHandler class.

The JSONHandler class is responsible for parsing a json file and creating a JSONData object from it when requested. It assigns all necessary values to the JSONData object. Most of the error handling is done in the JSONData object.

Definition at line 29 of file JSONHandler.hpp.

#### 7.4.2 Constructor & Destructor Documentation

#### 7.4.2.1 JSONHandler()

Constructor.

The constructor calls the parseFile function to parse the file and adds it to the corresponding member variable.

#### **Parameters**

filename	The filename to parse
----------	-----------------------

Definition at line 9 of file JSONHandler.cpp.

References parseFile(), and root.

Here is the call graph for this function:



#### 7.4.3 Member Function Documentation

#### 7.4.3.1 assignApplication()

```
void json::JSONHandler::assignApplication ( ) const [private]
```

Assigns the application to the JSONData object.

Note

How should error handling be done? Value can be empty, but what about null vs ""?

Definition at line 47 of file JSONHandler.cpp.

References data, and root.

Here is the caller graph for this function:



#### 7.4.3.2 assignCommand()

Assigns a command to the JSONData object.

The function takes a Json::Value object and assigns the command to the JSONData object

#### **Parameters**

entry	The entry to assign
-------	---------------------

Note

Error handling is done in the JSONData object

Definition at line 69 of file JSONHandler.cpp.

References data.

Here is the caller graph for this function:



#### 7.4.3.3 assignEntries()

```
void json::JSONHandler::assignEntries ( ) const [private]
```

Assigns the entries to the JSONData object.

The function loops through the entries and calls the corresponding function to assign the entry to the JSONData object

#### **Exceptions**

std::runtime_error	If the entry type is unknown
--------------------	------------------------------

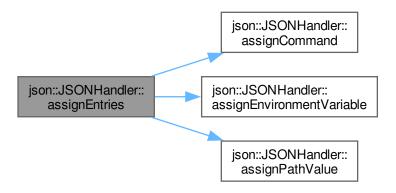
Note

Other error handling is done in the JSONData object

Definition at line 52 of file JSONHandler.cpp.

 $References\ assign Command (),\ assign Environment Variable (),\ assign Path Value (),\ and\ root.$ 

Here is the call graph for this function:



Here is the caller graph for this function:



#### 7.4.3.4 assignEnvironmentVariable()

Assigns an environment variable to the JSONData object.

The function takes a Json::Value object and assigns a tuple of the environment variable to the JSONData object

#### **Parameters**

entry	The entry to assign

Note

Error handling is done in the JSONData object

Definition at line 74 of file JSONHandler.cpp.

References data.

Here is the caller graph for this function:



#### 7.4.3.5 assignHideShell()

void json::JSONHandler::assignHideShell ( ) const [private]

Assigns the hide shell value to the JSONData object.

Note

There is no real error handling for this value, it defaults to false

Todo : Error handling if not found

Note

: default to false

Definition at line 40 of file JSONHandler.cpp.

References data, and root.

Here is the caller graph for this function:



#### 7.4.3.6 assignOutputFile()

void json::JSONHandler::assignOutputFile ( ) const [private]

Assigns the output file to the JSONData object.

Note

Error handling is done in the JSONData object

Definition at line 35 of file JSONHandler.cpp.

References data, and root.

Here is the caller graph for this function:



#### 7.4.3.7 assignPathValue()

Assigns a path value to the JSONData object.

The function takes a Json::Value object and assigns the path value to the JSONData object

#### **Parameters**

ntry to assign	entry
----------------	-------

Note

Error handling is done in the JSONData object

Definition at line 80 of file JSONHandler.cpp.

References data.

Here is the caller graph for this function:



#### 7.4.3.8 createJSONData()

```
\verb|std::shared_ptr<| JSONData| > \verb|json::JSONHandler::createJSONData| ( ) | [private]|
```

Creates a JSONData object.

The function creates the JSONData object and calls all the necessary methods to assign the values to the object.

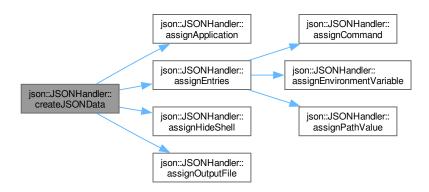
Returns

std::shared\_ptr<JSONData> The JSONData object

Definition at line 26 of file JSONHandler.cpp.

References assignApplication(), assignEntries(), assignHideShell(), assignOutputFile(), and data.

Here is the call graph for this function:



Here is the caller graph for this function:



#### 7.4.3.9 getJSONData()

```
std::shared_ptr< JSONData > json::JSONHandler::getJSONData ( )
```

Retrieve the JSONData object.

The function takes the necesarry steps to create a JSONData object and then returns it

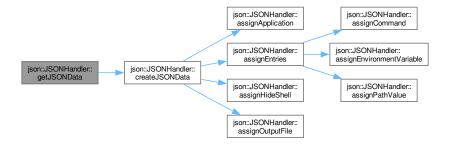
Returns

std::shared\_ptr<JSONData> The JSONData object

Definition at line 22 of file JSONHandler.cpp.

References createJSONData().

Here is the call graph for this function:



Here is the caller graph for this function:



#### 7.4.3.10 parseFile()

Parse a file.

The function takes a filename and parses the file into a Json::Value object.

#### **Parameters**

filename	The filename to parse

#### Returns

std::shared\_ptr<Json::Value> The parsed file

Definition at line 13 of file JSONHandler.cpp.

Here is the caller graph for this function:



#### 7.4.4 Member Data Documentation

#### 7.4.4.1 data

```
std::shared_ptr<JSONData> json::JSONHandler::data [private]
```

Definition at line 158 of file JSONHandler.hpp.

#### 7.4.4.2 root

```
std::shared_ptr<Json::Value> json::JSONHandler::root [private]
```

Definition at line 157 of file JSONHandler.hpp.

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

- src/headers/JSONHandler.hpp
- src/sources/JSONHandler.cpp

## 7.5 utils::StartupHandler Class Reference

Handles startup task for the application.

```
#include <StartupHandler.hpp>
```

#### **Public Member Functions**

- StartupHandler (const StartupHandler &)=delete

  Copy constructor (deleted)
- StartupHandler & operator= (const StartupHandler &)=delete

  Assignment operator (deleted)

#### **Static Public Member Functions**

• static void initEasyLogging ()

Initialize easylogging.

• static std::optional < std::string > getOptions (int argc, char \*argv[])

Get options from command line.

#### **Private Member Functions**

• StartupHandler ()=default

Constructor (private)

#### 7.5.1 Detailed Description

Handles startup task for the application.

This class provides functionality for the startup of the application. Currently it initializes easylogging and parses given options.

Note

I think this class should stay static - Simon

Definition at line 26 of file StartupHandler.hpp.

#### 7.5.2 Constructor & Destructor Documentation

### 7.5.2.1 StartupHandler() [1/2]

Copy constructor (deleted)

This class should not be instantiated.

#### 7.5.2.2 StartupHandler() [2/2]

```
utils::StartupHandler::StartupHandler ( ) [private], [default]
```

Constructor (private)

This class should not be instantiated.

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#### 7.5.3 Member Function Documentation

#### 7.5.3.1 getOptions()

Get options from command line.

This function parses the command line options and returns the filename given as an argument. It can hadle short, long and "regular" arguments. Currently, the following options are supported:

· -h, -help: Show help

· -V, -version: Show version

• -verbose: Set verbose flag

· -brief: Unset verbose flag

· -test: Test

#### **Todo**

Bug Global verbose flag is not working.

#### **Parameters**

argc	Number of arguments
argv	Arguments

#### Returns

Returns either the filename or nothing.

#### **Exceptions**

std::invalid_argument	If more than one filename is given.

Definition at line 20 of file StartupHandler.cpp.

References utils::verbose.

Here is the caller graph for this function:



#### 7.5.3.2 initEasyLogging()

```
void utils::StartupHandler::initEasyLogging ( ) [static]
```

Initialize easylogging.

This function initializes easylogging with the configuration file "\$SOURCE/conf/easylogging.conf".

**Todo** • Improve easylogging configuration

Bug Easylogging conf only recognized when running application from source dir

Definition at line 13 of file StartupHandler.cpp.

Here is the caller graph for this function:



#### 7.5.3.3 operator=()

Assignment operator (deleted)

This class should not be instantiated.

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

- src/headers/StartupHandler.hpp
- src/sources/StartupHandler.cpp

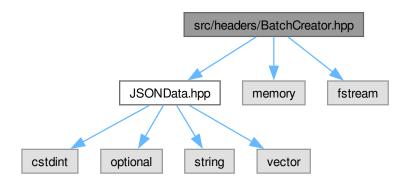
34 **Class Documentation** 

# **Chapter 8**

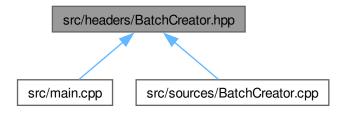
# **File Documentation**

## 8.1 src/headers/BatchCreator.hpp File Reference

```
#include "JSONData.hpp"
#include <memory>
#include <fstream>
Include dependency graph for BatchCreator.hpp:
```



This graph shows which files directly or indirectly include this file:



#### Classes

· class batch::BatchCreator

#### **Namespaces**

namespace batch

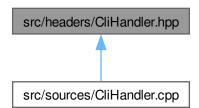
### 8.2 BatchCreator.hpp

#### Go to the documentation of this file.

```
00001 #ifndef BATCHCREATOR_HPP
00002 #define BATCHCREATOR_HPP
00003
00004 #include "JSONData.hpp"
00005 #include <memory>
00006 #include <fstream>
00007
00008 namespace batch {
00010
         class BatchCreator {
00011
          public:
              explicit BatchCreator(std::shared_ptr<json::JSONData> jsonData);
00012
00013
00014
              std::shared_ptr<std::ofstream> createBatchFile();
00015
         private:
00016
              std::shared_ptr<json::JSONData> jsonData;
00017
              std::shared_ptr<std::ofstream> batchFile = nullptr;
00019
              void writeHideShellStart();
00021
00022
              void writeHideShellEnd();
00023
00024
              void writeShell();
00025
00026
              void writeCommands();
00027
00028
              void writeEnvironmentVariables();
00029
00030
              void writePathValue();
00031
00032
              void writeApplication();
00033
00034
00035
00036 } // namespace batch
00037
00039 #endif // BATCHCREATOR_HPP
```

## 8.3 src/headers/CliHandler.hpp File Reference

This graph shows which files directly or indirectly include this file:



8.4 CliHandler.hpp 37

#### **Classes**

· class clInterface::CliHandler

#### **Namespaces**

· namespace clinterface

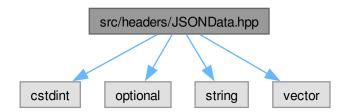
## 8.4 CliHandler.hpp

#### Go to the documentation of this file.

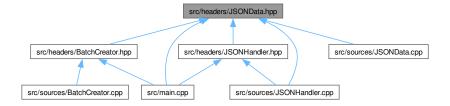
```
00001 //
00002 // Created by simon on 28.02.24.
00003 //
00004
00005 #ifndef JSONTOBATCH_CLIHANDLER_HPP
00006 #define JSONTOBATCH_CLIHANDLER_HPP
00007
00008 namespace clInterface {
00010
          class CliHandler {
00011
00012
          };
00013
00014 } // clInterface
00015
00016 #endif //JSONTOBATCH_CLIHANDLER_HPP
```

## 8.5 src/headers/JSONData.hpp File Reference

```
#include <cstdint>
#include <optional>
#include <string>
#include <vector>
Include dependency graph for JSONData.hpp:
```



This graph shows which files directly or indirectly include this file:



#### **Classes**

· class json::JSONData

#### **Namespaces**

• namespace json json namespace

## 8.6 JSONData.hpp

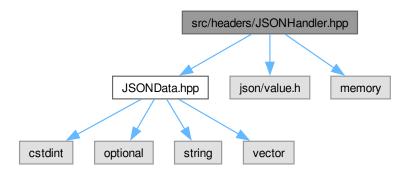
```
00001 #ifndef JSONDATA_HPP
00002 #define JSONDATA_HPP
00003
00004 #include <cstdint>
00005 #include <optional>
00006 #include <string>
00007 #include <vector>
80000
00009 namespace json {
00010
         class JSONData {
00011
          public:
00023
              void setOutputFile(std::string &newOutputfile);
00024
              void setHideShell(bool newHideShell) {
00029
00030
                  this->hideShell = newHideShell;
00031
00032
00037
              void setApplication(const std::string &newApplication);
00038
00045
              void addCommand(const std::string &command);
00046
00059
              void addEnvironmentVariable(const std::string &name,
00060
                                            const std::string &value);
00061
00068
              void addPathValue(const std::string &pathValue);
00069
00074
              [[nodiscard]] const std::string &getOutputFile() const {
00075
                  return outputfile;
00076
00077
              [[nodiscard]] bool getHideShell() const {
00082
00083
                  return hideShell;
00084
00085
00090
              [[nodiscard]] const std::optional<std::string> &getApplication() const {
00091
                  return application;
00092
00093
00098
              [[nodiscard]] const std::vector<std::string> &getCommands() const {
00099
                  return commands;
00100
```

```
00106
              [[nodiscard]] const std::vector<std::tuple<std::string, std::string»
00107
              &getEnvironmentVariables() const {
00108
                  return environmentVariables;
00109
00110
00115
              [[nodiscard]] const std::vector<std::string> &getPathValues() const {
00116
                  return pathValues;
00117
00118
        private:
00119
00120
             std::string outputfile;
00121
              bool hideShell;
00122
             std::optional<std::string> application;
00123
              std::vector<std::string> commands;
00124
              std::vector<std::tuple<std::string, std::string» environmentVariables;</pre>
             std::vector<std::string> pathValues;
const static int8_t suffixLength = 4;
00125
00126
        };
00128 } // namespace json
00129
00130 #endif // JSONDATA_HPP
```

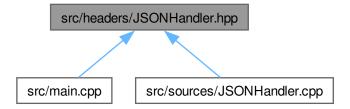
### 8.7 src/headers/JSONHandler.hpp File Reference

```
#include "JSONData.hpp"
#include "json/value.h"
#include <memory>
```

Include dependency graph for JSONHandler.hpp:



This graph shows which files directly or indirectly include this file:



#### **Classes**

 class json::JSONHandler JSONHandler class.

#### **Namespaces**

• namespace json json namespace

## 8.8 JSONHandler.hpp

#### Go to the documentation of this file.

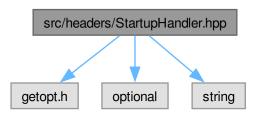
```
00001 #ifndef JSONHANDLER_HPP
00002 #define JSONHANDLER_HPP
00003
00004 #include "JSONData.hpp"
00005 #include "json/value.h"
00006 #include <memory>
00007
00017 namespace json {
00018
00029
          class JSONHandler {
00030
          public:
00040
              explicit JSONHandler(const std::string &filename);
00051
              std::shared_ptr<JSONData> getJSONData();
00052
00053
          private:
              [[nodiscard]] std::shared_ptr<Json::Value> parseFile(const std::string &filename) const;
00064
00065
00072
              void assignOutputFile() const;
00073
08000
              void assignHideShell() const;
00081
00089
              void assignApplication() const;
00090
00102
              void assignEntries() const;
00103
00116
              void assignCommand(const Json::Value &entry) const;
00117
00130
              void assignEnvironmentVariable(const Json::Value &entry) const;
00131
00144
              void assignPathValue(const Json::Value &entry) const;
00155
              std::shared_ptr<JSONData> createJSONData();
00156
00157
00158
              std::shared_ptr<Json::Value> root;
              std::shared_ptr<JSONData> data;
00159
          };
00160 } // namespace json
00162 #endif // JSONHANDLER_HPP
```

## 8.9 src/headers/StartupHandler.hpp File Reference

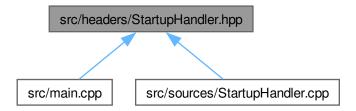
```
#include <getopt.h>
#include <optional>
```

#include <string>

Include dependency graph for StartupHandler.hpp:



This graph shows which files directly or indirectly include this file:



#### Classes

· class utils::StartupHandler

Handles startup task for the application.

#### **Namespaces**

namespace utils

Namespace for utility functions.

## 8.10 StartupHandler.hpp

```
00001 #ifndef STARTUPHANDLER_HPP
00002 #define STARTUPHANDLER_HPP
00003
00004 #include <getopt.h>
00005 #include <optional>
00006 #include <string>
```

```
00007
00015 namespace utils {
00026
          class StartupHandler {
00027
          public:
00042
               static void initEasyLogging();
00043
00072
               static std::optional<std::string> getOptions(int argc, char *argv[]);
00073
08000
               StartupHandler(const StartupHandler &) = delete;
00081
               StartupHandler &operator=(const StartupHandler &) = delete;
00088
00089
00090
          private:
00097
               StartupHandler() = default;
00098
00099
00100 };
00101 } // namespace utils
00102 #endif // STARTUPHANDLER_HPP
```

## 8.11 src/main.cpp File Reference

```
#include "JSONData.hpp"
#include "StartupHandler.hpp"
#include "JSONHandler.hpp"
#include "BatchCreator.hpp"
#include <easylogging++.h>
#include <getopt.h>
#include <iostream>
#include <json/json.h>
#include <sstream>
#include <stdexcept>
#include <string>
```

Include dependency graph for main.cpp:



#### **Functions**

INITIALIZE\_EASYLOGGINGPP int main (int argc, char \*argv[])
 Main function.

#### 8.11.1 Function Documentation

#### 8.11.1.1 main()

```
INITIALIZE_EASYLOGGINGPP int main (
          int argc,
          char * argv[] )
```

Main function.

8.12 main.cpp 43

Bug Initielizes to early for config file to be loaded

This is the main function for the application, The application is designed to parse a json file and create a batch file from it. Further more it provides a CLI to help the user to interact with the application.

Bug Getopt is not working on Windows.

Note

maybe close in creator? But this leaves possibility to add more stuff - why?

Definition at line 29 of file main.cpp.

References batch::BatchCreator::createBatchFile(), json::JSONHandler::getJSONData(), utils::StartupHandler::getOptions(), and utils::StartupHandler::initEasyLogging().

Here is the call graph for this function:



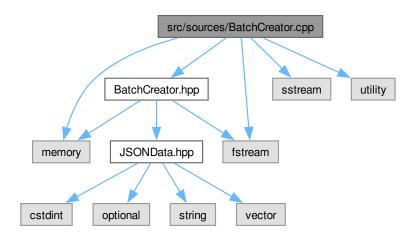
## 8.12 main.cpp

```
00001 #include "JSONData.hpp"
00002 #include "StartupHandler.hpp"
00003 #include "JSONHandler.hpp"
00004 #include "BatchCreator.hpp"
00005
00006 #include <easylogging++.h>
00007 #include <getopt.h>
00008 #include <iostream>
00009 #include <json/json.h>
00010 #include <sstream>
00011 #include <stdexcept>
00012 #include <string>
00013
00015 INITIALIZE_EASYLOGGINGPP
00016
00029 int main(int argc, char *argv[]) {
00030 std::cout « "Starting Application..." « std::endl;
00031
           utils::StartupHandler::initEasyLogging();
00032
00033
           if (argc <= 1)
00034
                LOG(WARNING) « "No arguments provided, exiting!";
00035
                std::cout « "No arguments provided, exiting!\n";
00036
                return 1;
00037
           }
00038
00039
           std::optional<std::string> filename;
```

```
00042
                   filename = utils::StartupHandler::getOptions(argc, argv);
00043
             catch (const std::invalid_argument &e) {
   LOG(WARNING) « "Caught invalid argument: " « e.what();
   std::cout « "Invalid argument: " « e.what() « std::endl;
00044
00045
00046
00047
00048
00049
             if (!filename.has_value()) {
                   LOG(ERROR) « "No filename given! Exiting..."; std::cerr « "No filename given!\nExiting...\n";
00050
00051
00052
                  return 1:
00053
             }
00054
             LOG(INFO) « "Filename received: " « filename.value(); std::cout « "Filename: " « filename.value() « std::endl; LOG(INFO) « "Further processing..."; std::cout « "Further processing..." « std::endl;
00055
00056
00057
00058
00059
00060
              // Initialize the JSONHandler with the file(name)
00061
              json::JSONHandler jsonHandler(filename.value());
00062
              // Get a JSONData object from the JSONHandler
00063
             std::shared_ptr<json::JSONData> jsonData = jsonHandler.getJSONData();
00064
             // Print the outputfile as a test
std::cout « "Outputfile: " « jsonData->getOutputFile() « std::endl;
00065
00066
00067
             batch::BatchCreator batchCreator(jsonData);
00070
             std::shared_ptr<std::ofstream> batchFile = batchCreator.createBatchFile();
00071
             batchFile->close();
00072
00073
             LOG(INFO) « "Application exiting!";
00074
             return 0;
00075 }
```

## 8.13 src/sources/BatchCreator.cpp File Reference

```
#include "BatchCreator.hpp"
#include <fstream>
#include <memory>
#include <sstream>
#include <utility>
Include dependency graph for BatchCreator.cpp:
```

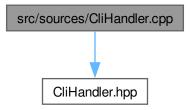


### 8.14 BatchCreator.cpp

```
00001 #include "BatchCreator.hpp'
00002 #include <fstream>
00003 #include <memory>
00004 #include <sstream>
00005 #include <utility>
00006
00007 namespace batch {
80000
00009
         BatchCreator::BatchCreator(std::shared_ptr<json::JSONData> jsonData)
                 : jsonData(std::move(jsonData)) {}
00011
00012
         std::shared_ptr<std::ofstream> BatchCreator::createBatchFile() {
00013
              this->batchFile = std::make_shared<std::ofstream>();
              this->batchFile->open(this->jsonData->getOutputFile());
00014
00015
              if (this->jsonData->getHideShell()) {
00016
                  this->writeHideShellStart();
00017
00018
              this->writeShell();
00019
              this->writeCommands();
              this->writeEnvironmentVariables();
00020
00021
              this->writePathValue();
00022
              this->writeApplication();
00023
              if (this->jsonData->getHideShell()) {
00024
                  this->writeHideShellEnd();
00025
00026
              return this->batchFile;
00027
          }
00028
          00030
00031
          void BatchCreator::writeHideShellEnd() { *this->batchFile \ll "@ECHO ON\n"; }
00032
00034
          void BatchCreator::writeShell() {
00035
             if (this->jsonData->getHideShell()) {
00036
                  *this->batchFile « R"(START C:\Windows\System32\cmd.exe /C ")";
00037
00038
00039
              *this->batchFile « R"(START C:\Windows\System32\cmd.exe /K ")";
00040
         }
00041
00042
          void BatchCreator::writeCommands() {
00043
             for (const auto &command: this->jsonData->getCommands()) {
00044
                  *this->batchFile « "CALL " « command « " && ^\n";
00045
00046
         }
00047
00048
          void BatchCreator::writeEnvironmentVariables() {
             for (const auto &envVar: this->jsonData->getEnvironmentVariables()) {
00049
00050
                  *this->batchFile « "SET " « std::get<0>(envVar) « "="
00051
                                   « std::get<1>(envVar) « " && ^\n";
00052
00053
         }
00054
00055
          void BatchCreator::writePathValue() {
00056
             std::stringstream additionalPaths;
00057
              for (const auto &pathValue: this->jsonData->getPathValues()) {
00058
                 additionalPaths « pathValue « ";";
00059
00060
              *this->batchFile « "SET PATH=%PATH%;" « additionalPaths.str();
00061
         }
00062
00063
         void BatchCreator::writeApplication() {
             if (!this->jsonData->getApplication().has_value()) {
   *this->batchFile « "\"\n";
00064
00065
00066
                  return:
00067
00068
              *this->batchFile « " && ^\n"
00069
                               « this->jsonData->getApplication().value()
00070
                               « "\"\n";
00071
00072 } // namespace batch
```

## 8.15 src/sources/CliHandler.cpp File Reference

#include "CliHandler.hpp"
Include dependency graph for CliHandler.cpp:



#### **Namespaces**

• namespace clinterface

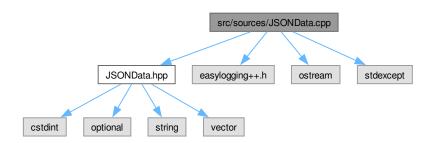
## 8.16 CliHandler.cpp

#### Go to the documentation of this file.

```
00001 //
00002 // Created by simon on 28.02.24.
00003 //
00004
00005 #include "CliHandler.hpp"
00006
00007 namespace clInterface {
00008 } // clInterface
```

## 8.17 src/sources/JSONData.cpp File Reference

```
#include "JSONData.hpp"
#include <easylogging++.h>
#include <ostream>
#include <stdexcept>
Include dependency graph for JSONData.cpp:
```



8.18 JSONData.cpp 47

#### **Namespaces**

· namespace json

json namespace

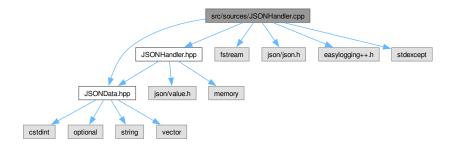
### 8.18 JSONData.cpp

```
00001 #include "JSONData.hpp"
00002 #include <easylogging++.h>
00003 #include <ostream>
00004 #include <stdexcept>
00006 namespace json {
          void JSONData::setOutputFile(std::string &newOutputfile) {
00007
80000
               if (newOutputfile.empty()) {
   LOG(ERROR) « "Tried to set empty outputfile!";
00009
00010
                    throw std::invalid_argument("Outputfile cannot be empty");
00011
00012
               if (!this->outputfile.empty()) {
   LOG(ERROR) « "Outputfile already set!";
00013
00014
00015
                    throw std::invalid_argument("Outputfile already set");
00016
               }
00017
00018
               if (newOutputfile.find(".bat") == std::string::npos ||
00019
                    newOutputfile.find(".bat") != newOutputfile.size() - JSONData::suffixLength) {
                    newOutputfile += ".bat";
std::cerr « "Outputfile does not have .bat suffix, adding it now: "
00020
00021
00022
                               « newOutputfile « std::endl;
                    LOG(WARNING) « "Outputfile does not have .bat suffix, adding it now: "
00023
00024
                                   « newOutputfile;
00025
00026
00027
               this->outputfile = newOutputfile;
00028
          }
00029
00030
           void JSONData::setApplication(const std::string &newApplication) {
00031
               if (newApplication.empty()) {
00032
00033
00034
               this->application.emplace(newApplication);
00035
          }
00036
00037
           void JSONData::addCommand(const std::string &command) {
               if (command.empty()) {
   LOG(ERROR) « "Tried to add emoty command to data object!";
00038
00039
                    throw std::invalid_argument("Command cannot be empty");
00040
00041
00042
00043
               this->commands.push_back(command);
00044
          }
00045
00046
           void JSONData::addEnvironmentVariable(const std::string &name,
00047
                                                      const std::string &value) {
00048
               if (name.empty() || value.empty()) {
                    LOG(ERROR) « "Tried to add invalid environment variable to data object!";
LOG(INFO) « "Envirement variables have to have a name and a value!";
00049
00050
00051
                    throw std::invalid_argument("Name and value cannot be empty");
00052
00053
00054
               this->environmentVariables.emplace_back(name, value);
00055
00056
00057
           void JSONData::addPathValue(const std::string &pathValue) {
00058
               if (pathValue.empty()) {
   LOG(ERROR) « "Tried to add empty path value to data object!";
00059
00060
                    throw std::invalid_argument("Path value cannot be empty");
00061
00062
00063
               this->pathValues.push_back(pathValue);
00064
00065 } // namespace json
```

### 8.19 src/sources/JSONHandler.cpp File Reference

```
#include "JSONHandler.hpp"
#include "JSONData.hpp"
#include <fstream>
#include <json/json.h>
#include <easylogging++.h>
#include <stdexcept>
```

Include dependency graph for JSONHandler.cpp:



#### **Namespaces**

• namespace json json namespace

## 8.20 JSONHandler.cpp

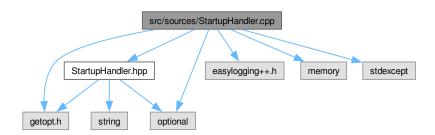
```
00001 #include "JSONHandler.hpp"
00002 #include "JSONData.hpp"
00003 #include <fstream>
00004 #include <json/json.h>
00005 #include <easylogging++.h>
00006 #include <stdexcept>
00007
00008 namespace json {
00009
          JSONHandler::JSONHandler(const std::string &filename) {
00010
              this->root = parseFile(filename);
00011
00012
          std::shared_ptr<Json::Value> JSONHandler::parseFile(const std::string
00013
                                                                 &filename) const {
00015
               std::ifstream file(filename);
00016
              Json::Value newRoot;
00017
              Json::Reader reader;
00018
              reader.parse(file, newRoot);
              return std::make_shared<Json::Value>(newRoot);
00019
00020
00021
00022
          std::shared_ptr<JSONData> JSONHandler::getJSONData() {
00023
               return this->createJSONData();
00024
00025
          std::shared_ptr<JSONData> JSONHandler::createJSONData() {
00027
              this->data = std::make_shared<JSONData>();
00028
               this->assignOutputFile();
00029
              this->assignHideShell();
00030
              this->assignApplication();
00031
              this->assignEntries();
00032
              return this->data;
00033
```

```
00034
00035
          void JSONHandler::assignOutputFile() const {
               std::string outputFile = this->root->get("outputfile", "").asString();
00036
00037
               this->data->setOutputFile(outputFile);
00038
00039
          void JSONHandler::assignHideShell() const {
00043
               bool hideShell = this->root->get("hideshell", false).asBool();
00044
               this->data->setHideShell(hideShell);
00045
00046
00047
          void JSONHandler::assignApplication() const {
               std::string application = this->root->get("application", "").asString();
00048
00049
               this->data->setApplication(application);
00050
00051
          void JSONHandler::assignEntries() const {
00052
00053
               for (const auto &entry: this->root->get("entries", "")) {
                   std::string entryType = entry.get("type", "").asString();
00054
00055
                   if (entryType == "EXE") {
00056
                   this->assignCommand(entry);
} else if (entryType == "ENV") {
00057
00058
                   this->assignEnvironmentVariable(entry);
} else if (entryType == "PATH") {
00059
00060
                       this->assignPathValue(entry);
00061
00062
                   } else
00063
                       LOG(ERROR) « "Unknown entry type";
00064
                       throw std::invalid_argument("Unknown entry type");
00065
                   }
00066
              }
00067
          }
00068
          void JSONHandler::assignCommand(const Json::Value &entry) const {
00069
00070
               std::string command = entry.get("command", "").asString();
00071
               this->data->addCommand(command);
00072
          }
00074
          void JSONHandler::assignEnvironmentVariable(const Json::Value &entry) const {
            std::string key = entry.get("key", "").asString();
std::string value = entry.get("value", "").asString();
00075
00076
00077
               this->data->addEnvironmentVariable(key, value);
00078
          }
00079
08000
          void JSONHandler::assignPathValue(const Json::Value &entry) const {
               std::string pathValue = entry.get("path", "").asString();
00081
00082
               this->data->addPathValue(pathValue);
00083
00084 } // namespace json
```

## 8.21 src/sources/StartupHandler.cpp File Reference

```
#include "StartupHandler.hpp"
#include "easylogging++.h"
#include <getopt.h>
#include <memory>
#include <optional>
#include <stdexcept>
```

Include dependency graph for StartupHandler.cpp:



#### **Namespaces**

· namespace utils

Namespace for utility functions.

#### **Variables**

• static int utils::verbose = 0

### 8.22 StartupHandler.cpp

```
00001 #include "StartupHandler.hpp"
00002 #include "easylogging++.h"
00003
00004 #include <getopt.h>
00005 #include <memory>
00006 #include <optional>
00007 #include <stdexcept>
80000
00009 namespace utils {
00010
           static int verbose = 0:
00011
00012
           void StartupHandler::initEasyLogging() {
   el::Configurations conf("conf/easylogging.conf");
00013
00014
00015
                 el::Loggers::reconfigureLogger("default", conf);
00016
                 el::Loggers::reconfigureAllLoggers(conf);
00017
                 {\tt LOG(INFO)} « "Easylogging initialized!";
00018
00019
00020
           std::optional<std::string> StartupHandler::getOptions(int argc, char *argv[]) {
00021
                LOG(INFO) « "Parsing options...";
00022
                 static const struct option long_options[] = {
                          /* These options set a flag. */
{"verbose", no_argument, &verbose, 1},
{"brief", no_argument, &verbose, 0},
{"help", no_argument, nullptr, 'h'},
00023
00024
00025
00026
00027
                           {"version", no_argument, nullptr, 'V'},
00028
                          {"test", required_argument, nullptr, 0},
00029
                          nullptr
00030
                 };
00031
00032
00033
                      int optIndex = -1;
                     std::unique_ptr<struct option> opt = nullptr;
auto result = getopt_long(argc, argv, "hV", long_options, &optIndex);
00034
00035
00036
00037
                     if (result == -1) {
00038
                          break;
00039
00040
00041
                     switch (result) {
00042
                          case '?':
                               LOG(INFO) « "Unknown option given";
00043
                               std::cout « "Not know\n";
00044
00045
00046
00047
                              LOG(INFO) « "Help option given"; std::cout « "long h\n";
00048
00049
00050
                               break;
00051
00052
                              LOG(INFO) « "Version option given"; std::cout « "long V\n";
00053
00054
00055
                          case '0':
00056
00057
                               opt = std::make_unique<struct option>(long_options[optIndex]);
00058
                               LOG(INFO) « "Option " « opt->name « " given";
00059
                               if (opt->has_arg == required_argument)
    LOG(INFO) « "Argument: " « optarg;
00060
00061
00062
                               }
00063
                               break;
00064
                          default:
```

```
00065
                                       std::cout « "I shouldnt have been here!\n";
00066
00067
00068
                    } while (true);
00069
                    LOG(INFO) « "Parsing options done";
std::optional<std::string> filename = {};
00070
00071
00072
                     LOG(INFO) « "Parsing other arguments...";
00073
                    while (optind < argc) {
    if (filename.has_value()) {
        LOG(ERROR) « "Only one filename can be given!";
        throw std::invalid_argument("Only one filename can be given!\n");</pre>
00074
00075
00076
00077
00078
00079
                          LOG(INFO) « "Filename set to: " « argv[optind];
filename = std::string(argv[optind++]);
08000
00081
00082
                    }
00084
                    return filename;
00085 }
00086 } // namespace utils
```

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