clas-digital

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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

ook	
ookManager	
unctions	1
letadata	14
questHandler	
EmptyHandler	
GetHandler	20
PostHandler	2
questHandlerFactory	
questHandlerFactory HandlerFactory	2 [.]
llFile	2!

2 Hierarchical Index

Chapter 2

Class Index

2.1 Class List

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

CBook	7
CBookManager	
CFunctions	11
CMetadata	14
EmptyHandler EmptyHandler	
Small class used for setting the default empty method for every request handler	17
GetHandler	
The Basic Get Handler which does almost all of the server disk IO acesses	20
HandlerFactory	
The HandlerFactory is used to instantiate the proxygen server and creates all request handler for every request directed to the server This class redirects every request to the right handler, in order to do so it keeps book of every URI object registered and sends the request to the URI object if there is any else the request goes to the default handler	21
PostHandler	
Handles the basic posts to the server mainly does the login and not much else	23
The class contains basic information about the URI file	25

4 Class Index

Chapter 3

File Index

3.1 File List

Here is a list of all documented files with brief descriptions:

src/books/ CBook.hpp
src/books/ CBookManager.hpp
src/books/ CFunctions.hpp
src/books/CMetadata.hpp
src/server/ BasicHandlers.hpp
src/server/GetHandler.cpp
Implements the interface of the GetHandler class and all the default response functions like
SendErrorNotFound etc
src/server/HandlerFactory.hpp
src/server/PostHandler.cpp
Implements the interface for the PostHandler class and handles all user logins

6 File Index

Chapter 4

Class Documentation

4.1 CBook Class Reference

Public Member Functions

- CBook (std::string sPath)
- std::string getPath ()

getter function to return the path to the directory of a book

- std::string getOcrPath ()
- std::string getKey ()
- bool getOcr ()
- std::map< std::string, int > & getMapWords ()
- CMetadata & getMetadata ()
- std::vector< std::string > getCollections ()
- std::string getAuthor ()
- int getDate ()
- void setOcr (bool bOcr)
- void setPath (std::string sPath)
- void createMapWords ()

checks whether book already has map of words, if not it create them

4.1.1 Constructor & Destructor Documentation

4.1.1.1 CBook()

```
CBook::CBook ( std::string sPath )
```

Constructor

Parameters

in	sPath	Path to book
in	map	map of words in book

4.1.2 Member Function Documentation

```
4.1.2.1 createMapWords()
void CBook::createMapWords ( )
checks whether book already has map of words, if not it create them
Create a map of all word of this book
4.1.2.2 getAuthor()
std::string CBook::getAuthor ( )
Returns
     lastName, or Name of author
4.1.2.3 getCollections()
std::vector< std::string > CBook::getCollections ( )
Returns
     vector with all collections this book is in
4.1.2.4 getDate()
int CBook::getDate ( )
Returns
```

date or -1 if date does not exists or is currupted

4.1 CBook Class Reference 9

```
4.1.2.5 getKey()
std::string CBook::getKey ( )
Returns
     Key of the book, after extracting it from the path
4.1.2.6 getMapWords()
std::map< std::string, int > & CBook::getMapWords ( )
Returns
     map of all words in book
4.1.2.7 getMetadata()
CMetadata & CBook::getMetadata ( )
Returns
     info.json of book
4.1.2.8 getOcr()
bool CBook::getOcr ( )
Returns
     Boolean, whether book contains ocr or not
4.1.2.9 getOcrPath()
std::string CBook::getOcrPath ( )
Returns
     Path to directory of the book
```

Path to the ocr.txt file

4.1.2.10 getPath()

```
std::string CBook::getPath ( )
```

getter function to return the path to the directory of a book

Returns

string (Path to directory of the book)
Path to directory of the book

4.1.2.11 setOcr()

```
void CBook::setOcr (
    bool bOcr )
```

Parameters

in	bool	indicating whether book has ocr or not
----	------	--

4.1.2.12 setPath()

Parameters

in	sPath	Path to direcory

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

- src/books/CBook.hpp
- src/books/Book.cpp

4.2 CBookManager Class Reference

Public Member Functions

- std::map< std::string, CBook > & getMapOfBooks ()
- bool initialize ()

load all books.

4.2.1 Member Function Documentation

```
4.2.1.1 getMapOfBooks()

std::map< std::string, CBook > & CBookManager::getMapOfBooks ( )

Returns
    map of all book

4.2.1.2 initialize()

bool CBookManager::initialize ( )

load all books.
```

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

· src/books/CBookManager.hpp

boolean for successful of not

• src/books/Bookmanager.cpp

4.3 CFunctions Class Reference

Public Member Functions

Returns

- bool compare (const char *chT1, const char *chT2)
- std::string removeSpace (std::string str)
- void ignoreCase (std::string &str)
- bool iequals (const char *a, const char *b)
- void createMapOfWords (std::string sPathToOcr, std::map< std::string, int > &mapWords)
- void createMapofWordsFromString (std::string sWords, std::map < std::string, int > &mapWords)
- void loadMapOfWords (std::string sPathToWords, std::map< std::string, int > &mapWords)

4.3.1 Member Function Documentation

4.3.1.1 compare()

Parameters

in	chT1	first string to compare
in	chT2	second string to compare

Returns

Boolean indicating, whether strings compare or not

4.3.1.2 createMapOfWords()

```
void CFunctions::createMapOfWords ( std::string \ sPathToOcr, \\ std::map < std::string, int > & mapWords )
```

Parameters

in	sPathToOcr	Path to ocr of a book
out	mapWords	map to which new words will be added

4.3.1.3 createMapofWordsFromString()

```
void CFunctions::createMapofWordsFromString ( std::string \ sWords, \\ std::map < std::string, \ int > \& \ mapWords \ )
```

Parameters

in	sWords	string of which map shall be created
out	mapWords	map to which new words will be added

4.3.1.4 iequals()

iequals: compare two string and ignore case.

Parameters

in	string	а
in	string	b

Returns

true if strings are equal, false if not

4.3.1.5 ignoreCase()

```
void CFunctions::ignoreCase ( std::string \ \& \ str \ )
```

Parameters

out	modief	to ignore case
-----	--------	----------------

4.3.1.6 loadMapOfWords()

```
void CFunctions::loadMapOfWords ( std::string \ sPathToWords, \\ std::map< \ std::string, \ int > \& \ mapWords \ )
```

Parameters

i	n	sPathToWords	path to .txt with all words in book
01	ut	mapWords	map to which new words will be added.

4.3.1.7 removeSpace()

Parameters

out	str	remove of spaces from str
-----	-----	---------------------------

Returns

modified string

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

- src/books/CFunctions.hpp
- src/books/Functions.cpp

4.4 CMetadata Class Reference

Public Member Functions

- CMetadata (std::string sMetadata)
- nlohmann::json getJson ()
- std::string getMetadata (std::string sSearch)
- std::string getMetadata (std::string sSearch, std::string sFrom)
- std::string getMetadata (std::string sSearch, std::string sFrom1, std::string sFrom2)
- std::string getMetadata (std::string sSearch, std::string sFrom1, std::string sFrom2, int in)
- std::vector< std::string > getCollections ()
- std::string getAuthor ()
- int getDate ()
- std::string getShow ()

4.4.1 Constructor & Destructor Documentation

4.4.1.1 CMetadata()

Parameters

in <i>sMetadata</i>	path to metadata
---------------------	------------------

4.4.2 Member Function Documentation

4.4.2.1 getAuthor()

```
std::string CMetadata::getAuthor ( )
```

Returns

lastName, or Name of author

```
4.4.2.2 getCollections()
std::vector< std::string > CMetadata::getCollections ( )
Returns
     vector with all collections this book is in
4.4.2.3 getDate()
int CMetadata::getDate ( )
Returns
     date or -1 if date does not exists or is currupted
4.4.2.4 getJson()
nlohmann::json CMetadata::getJson ( )
Returns
     metadata
4.4.2.5 getMetadata() [1/4]
std::string CMetadata::getMetadata (
              std::string sSearch )
getter function to return selected metadata string (sSearch: which metadata (f.e. title, date...)
```

Returns string

```
4.4.2.6 getMetadata() [2/4]
```

getter function to return selected metadata string (sSearch: which metadata (f.e. title, date...) string (sFrom: from which json (f.e. title -> data -> title)

Returns

string

4.4.2.7 getMetadata() [3/4]

getter function to return selected metadata string (sSearch: which metadata (f.e. title, date...) string (sFrom2: from which json (f.e. title -> data -> title) string (sFrom2: in json from which json (f.e. author -> data creators -> author)

Returns

string

4.4.2.8 getMetadata() [4/4]

getter function to return selected metadata string (sSearch: which metadata (f.e. title, date...) string (sFrom2: from which json (f.e. title -> data -> title) string (sFrom2: in json from which json (f.e. author -> data creators -> author) int (index: in case of list: which element from list)

Returns

string

4.4.2.9 getShow()

```
std::string CMetadata::getShow ( )
```

Returns

string with Auhtor + first 6 words 15 words of title + date

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

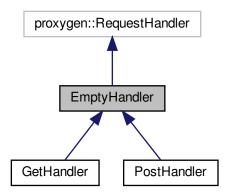
- · src/books/CMetadata.hpp
- src/books/Metadata.cpp

4.5 EmptyHandler Class Reference

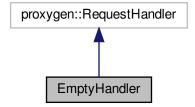
Small class used for setting the default empty method for every request handler.

```
#include <BasicHandlers.hpp>
```

Inheritance diagram for EmptyHandler:



Collaboration diagram for EmptyHandler:



Public Member Functions

virtual void onRequest (std::unique_ptr< proxygen::HTTPMessage > headers) noexcept override
 Dummy function for the proxygen virtual function onRequest.

virtual void onBody (std::unique_ptr< folly::IOBuf > body) noexcept override

Dummy empty handler for the on body proxygen virtual function.

• virtual void on Upgrade (proxygen:: Upgrade Protocol proto) no except override

Dummy empty handler for the proxygen function on Upgrade.

· virtual void requestComplete () noexcept override

The empty handler for the proxygen function requestComplete.

• virtual void on Error (proxygen::Proxygen Error err) no except override

The dummy function for the proxygen function on Error.

· virtual void on Egress Paused () no except override

The dummy function for the proxygen function in Egress Paused.

· virtual void on Egress Resumed () no except override

The dummy function for the proxygen function on Egress Resumed.

virtual void onEOM () noexcept override

The dummy function for the end of message function.

4.5.1 Detailed Description

Small class used for setting the default empty method for every request handler.

This Handler is just used to provide an default empty method for the pure virtual class Request Handler, therefore it does not do anything at all expect implementing these empty methods Usage is as follows

4.5.2 Member Function Documentation

4.5.2.1 onBody()

Dummy empty handler for the on body proxygen virtual function.

Parameters

body The body provided by proxygen for this message, can be called multiple times for the same request if there is a lot of data

Reimplemented in PostHandler.

4.5.2.2 onError()

The dummy function for the proxygen function on Error.

Parameters

```
err The error that occured
```

4.5.2.3 onRequest()

Dummy function for the proxygen virtual function onRequest.

Parameters

headers	The HTTP Message provided by proxygen
---------	---------------------------------------

Reimplemented in PostHandler, and GetHandler.

4.5.2.4 onUpgrade()

Dummy empty handler for the proxygen function on Upgrade.

Parameters

proto	The new protocol to follow from there on

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

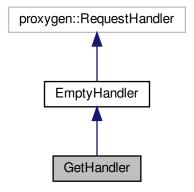
• src/server/BasicHandlers.hpp

4.6 GetHandler Class Reference

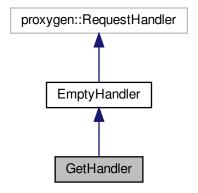
The Basic Get Handler which does almost all of the server disk IO acesses.

#include <BasicHandlers.hpp>

Inheritance diagram for GetHandler:



Collaboration diagram for GetHandler:



Public Member Functions

void onRequest (std::unique_ptr< proxygen::HTTPMessage > headers) noexcept override
 Tries to satisfy a ressource request, do access right check and provide either an error response or the ressource response.

4.6.1 Detailed Description

The Basic Get Handler which does almost all of the server disk IO acesses.

Most of the function

4.6.2 Member Function Documentation

4.6.2.1 onRequest()

Tries to satisfy a ressource request, do access right check and provide either an error response or the ressource response.

Parameters

headers The HTTP headers for this request provided by prox	ygen
--	------

Reimplemented from EmptyHandler.

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

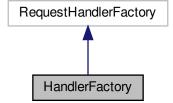
- src/server/BasicHandlers.hpp
- src/server/GetHandler.cpp

4.7 HandlerFactory Class Reference

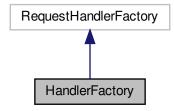
The HandlerFactory is used to instantiate the proxygen server and creates all request handler for every request directed to the server This class redirects every request to the right handler, in order to do so it keeps book of every URI object registered and sends the request to the URI object if there is any else the request goes to the default handler.

```
#include <HandlerFactory.hpp>
```

Inheritance diagram for HandlerFactory:



Collaboration diagram for HandlerFactory:



Public Member Functions

- void onServerStart (folly::EventBase *) noexcept override
- void onServerStop () noexcept override
 Handles the cleanup and behaviour if the server is stopped, in this case it does nothing at all because no cleanup is needed.
- RequestHandler * onRequest (RequestHandler *, HTTPMessage *hdr) noexcept override

4.7.1 Detailed Description

The HandlerFactory is used to instantiate the proxygen server and creates all request handler for every request directed to the server This class redirects every request to the right handler, in order to do so it keeps book of every URI object registered and sends the request to the URI object if there is any else the request goes to the default handler.

4.7.2 Member Function Documentation

4.7.2.1 onRequest()

As soon as an request is received this function gets called by the proxygen server and expects to return an Request handler. This function does nothing more than to select the correct request handler and return a new instance of him to the proxygen server.

Parameters

hdr The header of the message received, is used to set identify the user the message was sent from

Returns

Returns the correct request handler for the requested URI

4.7.2.2 onServerStart()

Initialises the HandlerFactory and gets called by the proxygen server as the server starts up. Reserve all the post URI Objects as well as all the GET URI Objects.

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

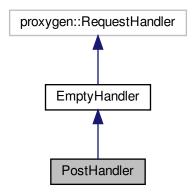
• src/server/HandlerFactory.hpp

4.8 PostHandler Class Reference

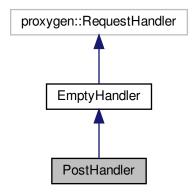
Handles the basic posts to the server mainly does the login and not much else.

```
#include <BasicHandlers.hpp>
```

Inheritance diagram for PostHandler:



Collaboration diagram for PostHandler:



Public Member Functions

- void onRequest (std::unique_ptr< proxygen::HTTPMessage > headers) noexcept override Handles all post requests which are not handled by other handlers.
- void onBody (std::unique_ptr< folly::IOBuf > body) noexcept override
 Proxygen callback for body data tries to parse user name and password from the data.

4.8.1 Detailed Description

Handles the basic posts to the server mainly does the login and not much else.

4.8.2 Member Function Documentation

4.8.2.1 onBody()

Proxygen callback for body data tries to parse user name and password from the data.

Parameters

body	The data conducith the next request
boay	The data send with the post request

Reimplemented from EmptyHandler.

4.8.2.2 onReguest()

Handles all post requests which are not handled by other handlers.

Parameters

Reimplemented from EmptyHandler.

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

- · src/server/BasicHandlers.hpp
- src/server/PostHandler.cpp

4.9 URIFile Class Reference

The class contains basic information about the URI file.

Public Member Functions

• URIFile (std::string path, int accessRights)

The constructor tells the URI Object has which file path on the disk and the access rights needed to access it.

• URIFile (const URIFile &fl)

Copy constructur, careful never ever use that!!! It was just created because std::unordered_map needs a copy constructor.

• URIFile (URIFile &&mvConst)

The move constructor constructs the new object by moving all the data out of the other URIFile object.

• bool doAccessCheck (int acc) const

Performs an access check on this file with the given access rights.

· const std::string & getPath () const

Returns a const reference to the path the file points to.

• const std::string & getMimeType () const

Returns the mime type of the given file path in html reprensentation.

std::unique_ptr< folly::IOBuf > getBuffer () const

Returns a unque ptr to the clone of the IOBuf so that in can be send to the client in a timely manner.

4.9.1 Detailed Description

The class contains basic information about the URI file.

4.9.2 Constructor & Destructor Documentation

The constructor tells the URI Object has which file path on the disk and the access rights needed to access it.

Parameters

ļ	oath	The path to the file to load	
ć	accessRights	The access rights needed to access the file, the accessRights must be a power of two!	

Copy constructur, careful never ever use that!!! It was just created because std::unordered_map needs a copy constructor.

Parameters

```
fl The file to create this file from
```

```
4.9.2.3 URIFile() [3/3]

URIFile::URIFile (

URIFile && mvConst ) [inline]
```

The move constructor constructs the new object by moving all the data out of the other URIFile object.

Parameters

mvConst The object to move the data aw	way from
--	----------

4.9.3 Member Function Documentation

4.9 URIFile Class Reference 27

4.9.3.1 doAccessCheck()

Performs an access check on this file with the given access rights.

Parameters

acc | The access rights trying to access the file, can be any positive integer

4.9.3.2 getBuffer()

```
std::unique_ptr< folly::IOBuf > URIFile::getBuffer ( ) const
```

Returns a unque ptr to the clone of the IOBuf so that in can be send to the client in a timely manner.

Returns

A unique ptr to a clone of the IOBuf which holds the file data

4.9.3.3 getMimeType()

```
const std::string & URIFile::getMimeType ( ) const
```

Returns the mime type of the given file path in html reprensentation.

```
//This is how to use it
URIFile file("web/index.html",0);
file.getMimeType(); //Will be "text/html"
```

Returns

A const reference to the detected mime type

4.9.3.4 getPath()

```
const std::string & URIFile::getPath ( ) const
```

Returns a const reference to the path the file points to.

Returns

A const reference to the path the file points to

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

src/server/GetHandler.cpp

Chapter 5

File Documentation

5.1 src/server/GetHandler.cpp File Reference

Implements the interface of the GetHandler class and all the default response functions like SendErrorNotFound etc.

```
#include "BasicHandlers.hpp"
#include <proxygen/httpserver/RequestHandler.h>
#include <proxygen/httpserver/ResponseBuilder.h>
#include <folly/io/async/EventBaseManager.h>
#include <folly/FileUtil.h>
#include <folly/executors/GlobalExecutor.h>
#include <ctime>
#include <fstream>
#include <string_view>
#include <unordered_map>
```

Include dependency graph for GetHandler.cpp:



Classes

• class URIFile

The class contains basic information about the URI file.

Functions

- void SendErrorNotFound (proxygen::ResponseHandler *rsp, std::string message)

 Sends an 404 not found message to the client with the given message.
- void SendAccessDenied (proxygen::ResponseHandler *rsp, std::string message)

Sends an 401 access denied message to the client with the given message.

30 File Documentation

Variables

std::unordered_map< std::string, URIFile > fileAccess

5.1.1 Detailed Description

Implements the interface of the GetHandler class and all the default response functions like SendErrorNotFound etc.

Implements the interface of the gethandler class and the default response functions also hosts the file Map which mappes almost all files to a specific URI with the given access rights so one can do access checks on files

5.1.2 Function Documentation

5.1.2.1 SendAccessDenied()

Sends an 401 access denied message to the client with the given message.

```
SendAccessDenied(downstream_); //Can be used like this in every handler inheriting from
    proxygen::RequestHandler or EmptyHandler
SendAccessDenied(downstream_, "<h1>My special error</h1>"); //Or specify a string to send a
    specific error message back
```

Parameters

rsp	The downstream_ Response Builder ever RequestHandler has got
message	The message to set the body to, the format of the body will always be html

5.1.2.2 SendErrorNotFound()

Sends an 404 not found message to the client with the given message.

```
SendErrorNotFound(downstream_); //Can be used like this in every handler inheriting from
    proxygen::RequestHandler or EmptyHandler
SendErrorNotFound(downstream_, "<h1>My special error</h1>"); //Or specify a string to send
    a specific error message back
```

Parameters

rsp	The downstream_ Response Builder ever RequestHandler has got
message	The message to set the body to, the format of the body will always be html

5.1.3 Variable Documentation

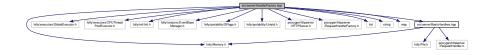
5.1.3.1 fileAccess

```
std::unordered_map<std::string,URIFile> fileAccess
```

Initial value:

5.2 src/server/HandlerFactory.hpp File Reference

```
#include <folly/Memory.h>
#include <folly/executors/GlobalExecutor.h>
#include <folly/executors/CPUThreadPoolExecutor.h>
#include <folly/init/Init.h>
#include <folly/io/async/EventBaseManager.h>
#include <folly/portability/GFlags.h>
#include <folly/portability/Unistd.h>
#include <proxygen/httpserver/HTTPServer.h>
#include <proxygen/httpserver/RequestHandlerFactory.h>
#include <list>
#include <string>
#include <map>
#include "src/server/BasicHandlers.hpp"
Include dependency graph for HandlerFactory.hpp:
```



Classes

· class HandlerFactory

The HandlerFactory is used to instantiate the proxygen server and creates all request handler for every request directed to the server This class redirects every request to the right handler, in order to do so it keeps book of every URI object registered and sends the request to the URI object if there is any else the request goes to the default handler.

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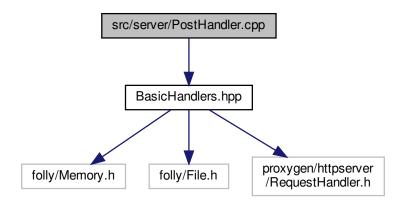
5.2.1 Detailed Description

This file contains the basic static handler factory used to instantiate the proxygen server The Handler Factory selects based on the request the appropriate request handler class

5.3 src/server/PostHandler.cpp File Reference

Implements the interface for the PostHandler class and handles all user logins.

#include "BasicHandlers.hpp"
Include dependency graph for PostHandler.cpp:



5.3.1 Detailed Description

Implements the interface for the PostHandler class and handles all user logins.