Gestor de textos i cites | Alexis Rico and Jordi Romero

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3.1 File List

Here is a list of all files with brief descriptions:

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Public Member Functions

- Author ()
- ∼Author ()

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Definition at line 13 of file Author.hh.

4.1.2 Constructor & Destructor Documentation

4.1.2.1 Author::Author ( )

4.1.2.2 Author::∼Author ( )

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

- Author.hh

4.2 Book Class Reference

Public Member Functions

- Book ()
- Book (string title, string author)
- ∼Book ()
- void readBookContent ()
- string getBookTitle () const
- string getAuthorName ()
- int getBookLines ()
- int getBookWords ()
- void replaceWords (string oldWord, string newWord)
- void printAllLines ()
- void printLines (string query)
- void printSelectLines (int start, int end)
- void printFrequencyTable ()

4.2.1 Detailed Description

Definition at line 16 of file Book.hh.

4.2.2 Constructor & Destructor Documentation

4.2.2.1 Book::Book ( )

4.2.2.2 Book::Book (string *title,* string *author*)

4.2.2.3 Book::∼Book ( )

4.2.3 Member Function Documentation

4.2.3.1 void Book::readBookContent ( )

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4.2.3.9 void Book::printSelectLines (int *start,* int *end*)

4.2.3.10 void Book::printFrequencyTable ( )

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

- Book.hh

4.3 Library Class Reference

Public Member Functions

- Library ()
- ∼Library ()
- void readBook (string title, string author)
- void selectBook (string query)
- void deleteBook ()
- void deleteQuote (string id)
- Book getBook ()
- Quote getQuote (string id)
- void printAuthors ()
- void printBooks ()
- void printQuotes ()
- void printBooksByAuthor (string author)
- void printQuotesByAuthor (string author)

4.3.1 Detailed Description

Definition at line 18 of file Library.hh.

4.3.2 Constructor & Destructor Documentation

4.3.2.1 Library::Library ( )

4.3.2.2 Library::∼Library ( )

4.3.3 Member Function Documentation

4.3.3.1 void Library::readBook (string *title,* string *author*)

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4.3.3.10 void Library::printBooksByAuthor (string *author*)

4.3.3.11 void Library::printQuotesByAuthor (string *author*)

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

- Library.hh

4.4 Quote Class Reference

Data model for Quotes (cites) from Books.

Public Member Functions

- Quote ()

  Creates an empty Quote.
- ∼Quote ()

  Destructs the implicit Quote.
- void printQuoteInformation ()

  Print all the information of the implicit Quote.

4.4.1 Detailed Description

Data model for Quotes (cites) from Books.

Definition at line 19 of file Quote.hh.

4.4.2 Constructor & Destructor Documentation

4.4.2.1 Quote::Quote ( )

Creates an empty Quote.

Precondition

True

Postcondition

Returns an implicit empty quote

4.4.2.2 Quote::∼Quote ( )

Destructs the implicit Quote.

Precondition

An implicit Quote

Postcondition

Deletes the implicit quote

4.4.3 Member Function Documentation

4.4.3.1 void Quote::printQuoteInformation ( )

Print all the information of the implicit Quote.

Precondition

An implicit Quote

Postcondition

Prints all the information

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

- Quote.hh

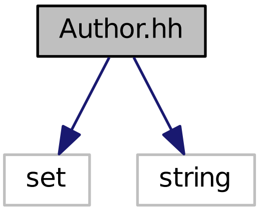
Chapter 5

File Documentation

5.1 Author.hh File Reference

Data model that hosts information about an Author.

Include dependency graph for Author.hh:



Classes

- class Author

5.1.1 Detailed Description

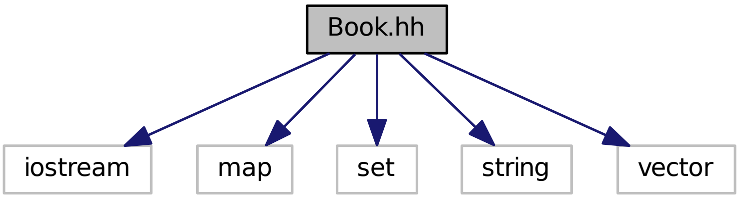
Data model that hosts information about an Author.

Definition in file Author.hh.

5.2 Book.hh File Reference

Data model that hosts information about a Book.

Include dependency graph for Book.hh:



Classes

- class Book

5.2.1 Detailed Description

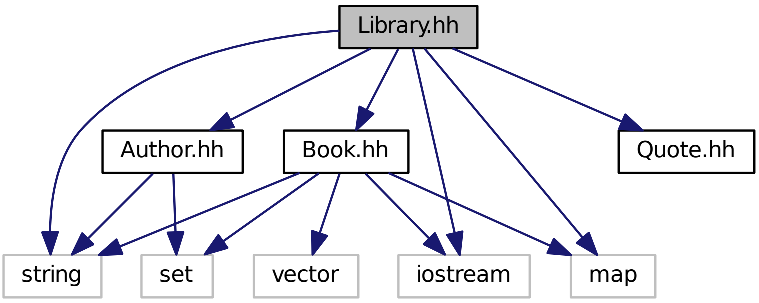
Data model that hosts information about a Book.

Definition in file Book.hh.

5.3 Library.hh File Reference

Main structure of our Library with several dependant data childs.

Include dependency graph for Library.hh:



Classes

- class Library

5.3.1 Detailed Description

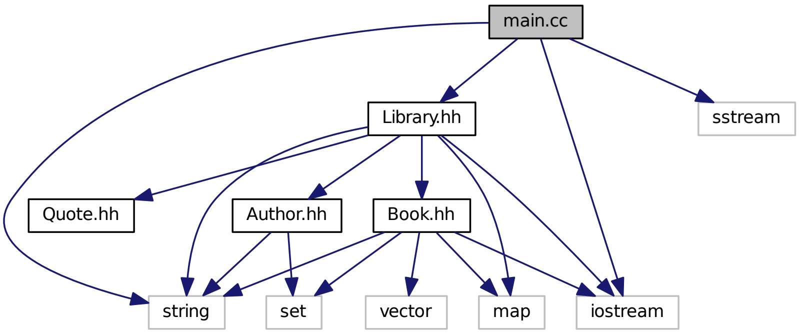
Main structure of our Library with several dependant data childs.

Definition in file Library.hh.

5.4 main.cc File Reference

Main program that handles the I/O operations with the end user.

Include dependency graph for main.cc:



Functions

- void readActions (Library &library)
- int main ()

    Main Procedure of main.cc.

Variables

- const string BOOK_INSERT = "afegir text"
- const string BOOK_DELETE = "eliminar text"
- const string BOOK_SELECT = "triar text"
- const string BOOK_REPLACE_WORD = "substitueix"
- const string QUOTE_INSERT = "afegir cita"
- const string QUOTE_DELETE = "eliminar cita"
- const string QUERY_AUTHORS = "tots autors ?"
- const string QUERY_BOOKS_ALL = "tots textos ?"
- const string QUERY_BOOKS_BY_AUTHOR = "textos autor"
- const string QUERY_CURRENT_AUTHOR = "autor ?"
- const string QUERY_CURRENT_CONTENT = "contingut ?"
- const string QUERY_CURRENT_INFO = "info ?"
- const string QUERY_CURRENT_EXPRESION = "frases"
- const string QUERY_CURRENT_LINES = "nombre de frases ?"
- const string QUERY_CURRENT_WORDS = "nombre de paraules ?"
- const string QUERY_CURRENT_FREQUENCY = "taula de frequencies ?"
- const string QUERY_CURRENT_QUOTES = "cites ?"
- const string QUERY_QUOTES_ALL = "totes cites ?"

- const string QUERY_QUOTES_BY_AUTHOR = "cites autor"
- const string QUERY_QUOTE_INFO = "info cita"
- const string QUIT = "sortir"

5.4.1 Detailed Description

Main program that handles the I/O operations with the end user.

Definition in file main.cc.

5.4.2 Function Documentation

5.4.2.1 void readActions (Library & *library*)

Definition at line 44 of file main.cc.

```
44                                      {
45     string input;
46     while (getline(cin, input)) {
47         if (input.substr(0, BOOK_INSERT.length()) == BOOK_INSERT) {
48             string title, author;
49             title = input.erase(input.length() - 1, 1).substr(input.find_first_of("\"") + 1);
50             getline(cin, input);
51             author = input.erase(input.length() - 1, 1).substr(input.find_first_of("\"") + 1);
52             library.readBook(title, author);
53         } else if (input.substr(0, BOOK_DELETE.length()) ==
      BOOK_DELETE) {
54             library.deleteBook();
55         } else if (input.substr(0, BOOK_SELECT.length()) ==
      BOOK_SELECT) {
56             library.selectBook(input.erase(input.length() - 1, 1).substr(input.find_first_of("{")
       + 1));
57         } else if (input.substr(0, BOOK_REPLACE_WORD.length()) ==
      BOOK_REPLACE_WORD) {
58             string oldWord, newWord;
59             // TODO: Substring from input
60             library.getBook().replaceWords(oldWord, newWord);
61         } else if (input.substr(0, QUOTE_INSERT.length()) ==
      QUOTE_INSERT) {
62             // TODO
63         } else if (input.substr(0, QUOTE_DELETE.length()) ==
      QUOTE_DELETE) {
64             string reference;
65             // TODO: Substring refernce from input
66             library.deleteQuote(reference);
67         } else if (input.substr(0, QUERY_AUTHORS.length()) ==
      QUERY_AUTHORS) {
68             // TODO
69         } else if (input.substr(0, QUERY_BOOKS_ALL.length()) ==
      QUERY_BOOKS_ALL) {
70             // TODO
71         } else if (input.substr(0, QUERY_BOOKS_BY_AUTHOR.length()) ==
      QUERY_BOOKS_BY_AUTHOR) {
72             // TODO
73         } else if (input.substr(0, QUERY_CURRENT_AUTHOR.length()) ==
      QUERY_CURRENT_AUTHOR) {
74             // TODO
75         } else if (input.substr(0, QUERY_CURRENT_CONTENT.length()) ==
      QUERY_CURRENT_CONTENT) {
76             // TODO
77         } else if (input.substr(0, QUERY_CURRENT_INFO.length()) ==
      QUERY_CURRENT_INFO) {
78             // TODO
79         } else if (input.substr(0, QUERY_CURRENT_EXPRESION.length()) ==
      QUERY_CURRENT_EXPRESION) {
80             // TODO
81         } else if (input.substr(0, QUERY_CURRENT_LINES.length()) ==
      QUERY_CURRENT_LINES) {
82             // TODO
83         } else if (input.substr(0, QUERY_CURRENT_WORDS.length()) ==
      QUERY_CURRENT_WORDS) {
84             // TODO
85         } else if (input.substr(0, QUERY_CURRENT_FREQUENCY.length()) ==
      QUERY_CURRENT_FREQUENCY) {
86             // TODO
87         } else if (input.substr(0, QUERY_CURRENT_QUOTES.length()) ==
      QUERY_CURRENT_QUOTES) {
```

```
88             // TODO
89         } else if (input.substr(0, QUERY_QUOTES_ALL.length()) ==
      QUERY_QUOTES_ALL) {
90             library.printQuotes();
91         } else if (input.substr(0, QUERY_QUOTES_BY_AUTHOR.length()) ==
      QUERY_QUOTES_BY_AUTHOR) {
92             string author;
93             // TODO: Substring author from input
94             library.printQuotesByAuthor(author);
95         } else if (input.substr(0, QUERY_QUOTE_INFO.length()) ==
      QUERY_QUOTE_INFO) {
96             string reference;
97             // TODO: Substring reference from input
98             library.getQuote(reference).printQuoteInformation();
99         } else if (input.substr(0, QUIT.length()) == QUIT) {
100             // TODO
101         }
102     }
103 }
```

5.4.2.2 int main ( )

Main Procedure of main.cc.

Definition at line 106 of file main.cc.

```
106            {
107     Library mainLibrary;
108     readActions(mainLibrary);
109 }
```

5.4.3 Variable Documentation

5.4.3.1 const string BOOK_INSERT = "afegir text"

Definition at line 17 of file main.cc.

5.4.3.2 const string BOOK_DELETE = "eliminar text"

Definition at line 18 of file main.cc.

5.4.3.3 const string BOOK_SELECT = "triar text"

Definition at line 19 of file main.cc.

5.4.3.4 const string BOOK_REPLACE_WORD = "substitueix"

Definition at line 20 of file main.cc.

5.4.3.5 const string QUOTE_INSERT = "afegir cita"

Definition at line 22 of file main.cc.

5.4.3.6 const string QUOTE_DELETE = "eliminar cita"

Definition at line 23 of file main.cc.

5.4.3.7 const string QUERY_AUTHORS = "tots autors ?"

Definition at line 25 of file main.cc.

5.4.3.8 const string QUERY_BOOKS_ALL = "tots textos ?"

Definition at line 26 of file main.cc.

5.4.3.9 const string QUERY_BOOKS_BY_AUTHOR = "textos autor"

Definition at line 27 of file main.cc.

5.4.3.10 const string QUERY_CURRENT_AUTHOR = "autor ?"

Definition at line 29 of file main.cc.

5.4.3.11 const string QUERY_CURRENT_CONTENT = "contingut ?"

Definition at line 30 of file main.cc.

5.4.3.12 const string QUERY_CURRENT_INFO = "info ?"

Definition at line 31 of file main.cc.

5.4.3.13 const string QUERY_CURRENT_EXPRESION = "frases"

Definition at line 32 of file main.cc.

5.4.3.14 const string QUERY_CURRENT_LINES = "nombre de frases ?"

Definition at line 33 of file main.cc.

5.4.3.15 const string QUERY_CURRENT_WORDS = "nombre de paraules ?"

Definition at line 34 of file main.cc.

5.4.3.16 const string QUERY_CURRENT_FREQUENCY = "taula de frequencies ?"

Definition at line 35 of file main.cc.

5.4.3.17 const string QUERY_CURRENT_QUOTES = "cites ?"

Definition at line 36 of file main.cc.

5.4.3.18 const string QUERY_QUOTES_ALL = "totes cites ?"

Definition at line 38 of file main.cc.

5.4.3.19 const string QUERY_QUOTES_BY_AUTHOR = "cites autor"

Definition at line 39 of file main.cc.

5.4.3.20 const string QUERY_QUOTE_INFO = "info cita"

Definition at line 40 of file main.cc.

5.4.3.21 const string QUIT = "sortir"

Definition at line 42 of file main.cc.

5.5 Quote.hh File Reference

Data model that hosts information about a Quote.

Classes

- class Quote
  Data model for Quotes (cites) from Books.

5.5.1 Detailed Description

Data model that hosts information about a Quote.

Definition in file Quote.hh.

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