Module 8 Final Project Submission

Library Item Class

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| <<abstract>> |

| LibraryItem |

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| - title: String |

| - author: String |

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| + getTitle(): String |

| + setTitle(String): void |

| + getAuthor(): String |

| + setAuthor(String): void |

| + toString(): String |

+---------------------+

Book Class

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| Book |

+---------------------+

| - isbn: String |

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| + getIsbn(): String |

| + setIsbn(String): void |

| + toString(): String |

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| extends LibraryItem |

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Library Class

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| Library |

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| - items: ObservableList<LibraryItem> |

| - libraryName: String |

| - address: String |

| - totalBooks: int |

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| + addItem(LibraryItem): void |

| + removeItem(LibraryItem): void |

| + getItems(): ObservableList<LibraryItem> |

| + searchByTitle(String): ObservableList<LibraryItem> |

| + searchByAuthor(String): ObservableList<LibraryItem> |

| + searchByIsbn(String): ObservableList<Book> |

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LibraryApp Class

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| LibraryApp |

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| - library: Library |

| - itemList: ObservableList<String> |

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| + start(Stage): void |

| + addBook(TextField, TextField, TextField): void |

| + removeBook(TextField): void |

| + saveBooksToFile(): void |

| + loadBooksFromFile(): void |

| + viewLibraryFile(): void |

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A screenshot of a computer

Description automatically generated

Example of adding a book to the library. After typing in title, author, ISBN, and clicking “Add Book” the book’s information will appear in the list at the bottom of the screen.

A screenshot of a computer

Description automatically generated

Example of error message if information not fully filled in when trying to add a book.

A screenshot of a computer

Description automatically generated

After entering information into all fields and clicking “Add Book”, the new entry will show up at bottom of the screen. You can click “View Library” to see a list of all entries that will pop up in a separate window.

A screenshot of a computer

Description automatically generated

If you want to remove an entry you just have to type in the title of the book you want to remove and click “Remove Book”. Below you can see the entry is removed after clicking “Remove Book”.

A screenshot of a computer

Description automatically generated