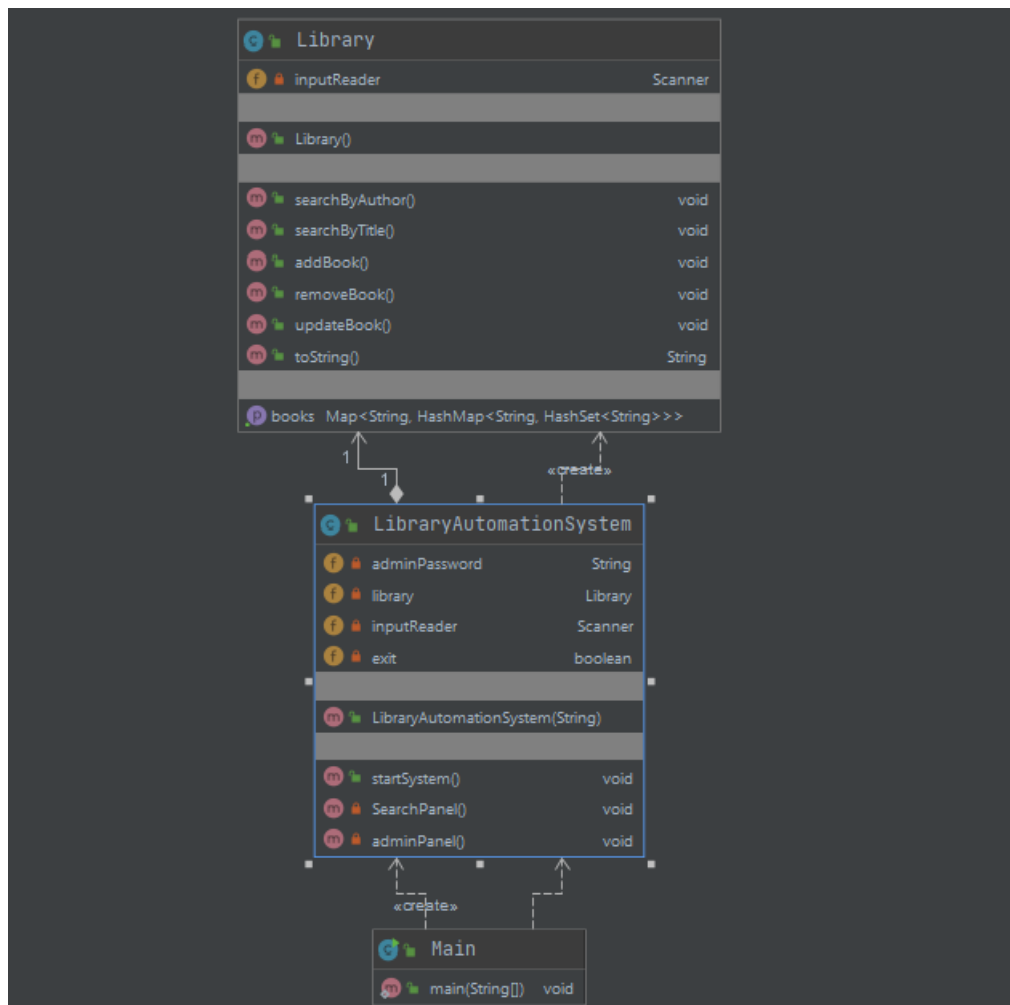


**GTU**  
**Department of Computer Engineering**  
**CSE 222/505 - Spring 2020**  
**Homework 6 Report**

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## Part 3

### 1-Class Diagrams:



### 2-Problem Solution Approach

In this part i split the problem to two. First one UI part and Second one is keeping Data and its operations. To create UI i created a class named Library Automation System. And for data part i created Library Class. Library Automation System has options for general user and admins. Admins logs in with a password which we have determined with constructor. Admin can add/delete/update data of the library. General users can search book by Title or by author. To keep location data i used Set, and every book kept in a map which has location as a value. And all books kept in a map as values, which keys are author of the book.

### 3-Test Cases, Running and Results

The test cases and results exist in [ConsoleOutput.pdf](#)