

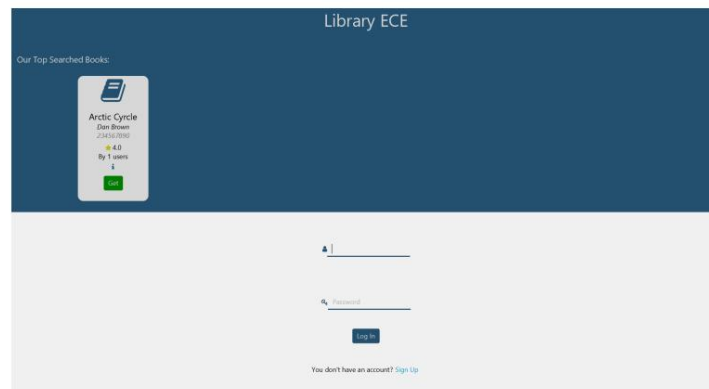
MULTIMEDIA TECHNOLOGY

Multimedia Technology Semi-Annual Report

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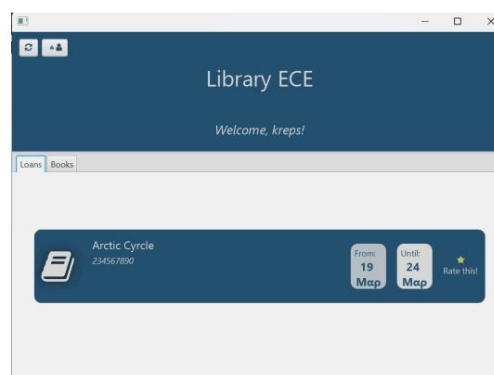
Navigation

To use the application, the first step is to log in if you are a user, or create an account by clicking on the corresponding link.

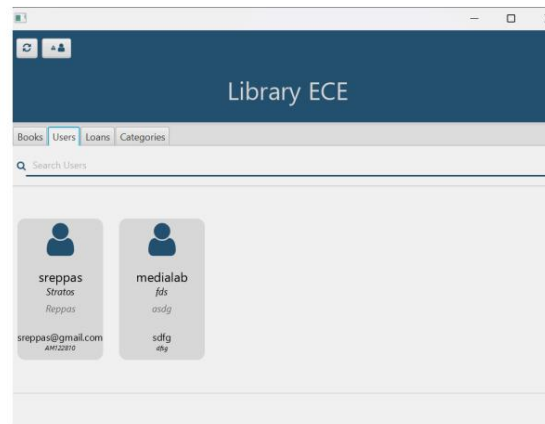


On the User's home page, we have two buttons on the top right, one to refresh the page (whenever needed) and one to log out. The page contains two tabs, one for the user's loans and one for the presentation of the books. For anyone to see them

information of the book is enough to press on and to borrow a book it is enough to press the Get button. Afterwards, its loan will appear on the loans tab, where the user can rate the specific book by clicking on the corresponding part.



On the admin homepage, there are also tabs for categories and users. It can edit the information of users and books by simply clicking on them. To return a loan, it is enough to click on it again.



Implementation

To implement the application, separate classes were defined for each displayed page (controllers), which inherit from a more general one, Controller or MainPageController, which provide some generic methods. Each object (ie Admin, User, Book, Loan, Category, Rating) is a separate class, all of which are combined together in the Library class, which contains lists of these objects, which practically constitute all. There are two more interfaces, Banner which is used to display some popups, and FileIO which performs writing and reading from the disk when the application starts and stops respectively. The program runs in the Main class, where it has a Library instance with all the memory of the program, and on which all the fxml files are displayed.

Admissions

Regarding the assumptions, it was originally assumed that a user who is not logged in cannot do any action on the library, other than to see the 5 most popular suggestions. Also, for the book search, isbn was added as a criterion, as it uniquely identifies a book, while a single search bar was used for each search criterion. Regarding loans, as there is no penalty for non-return, a loan is only terminated by the administrator, regardless of the return date, with the number of copies being renewed accordingly.

To document the classes based on the javadoc tool, the Main class was chosen.

The project can also be found at the following link: <https://github.com/Rssssssss088/MultimediaTechnologyProject>

