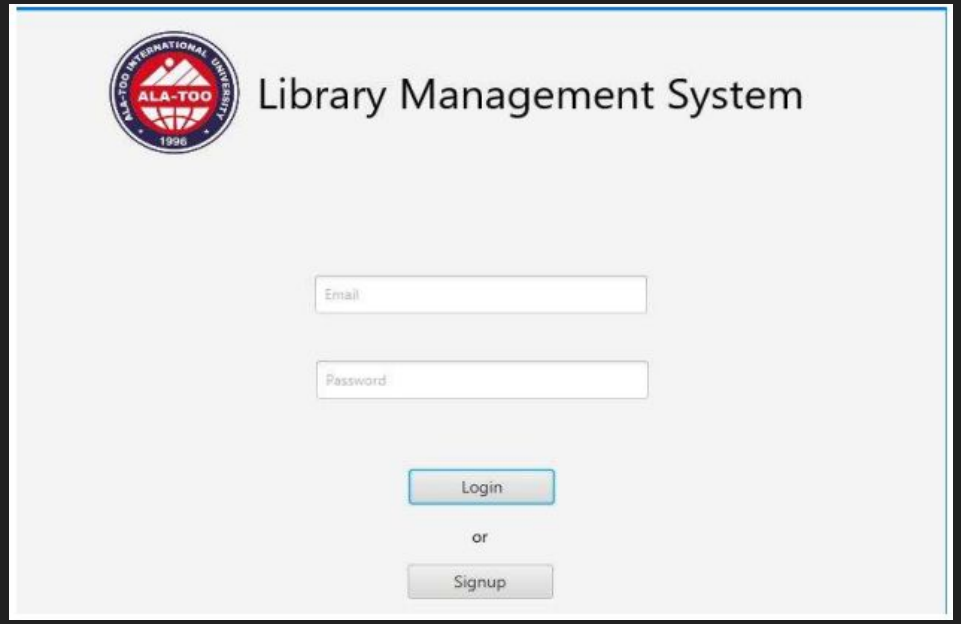
Database Management System for Library

Project Presentation

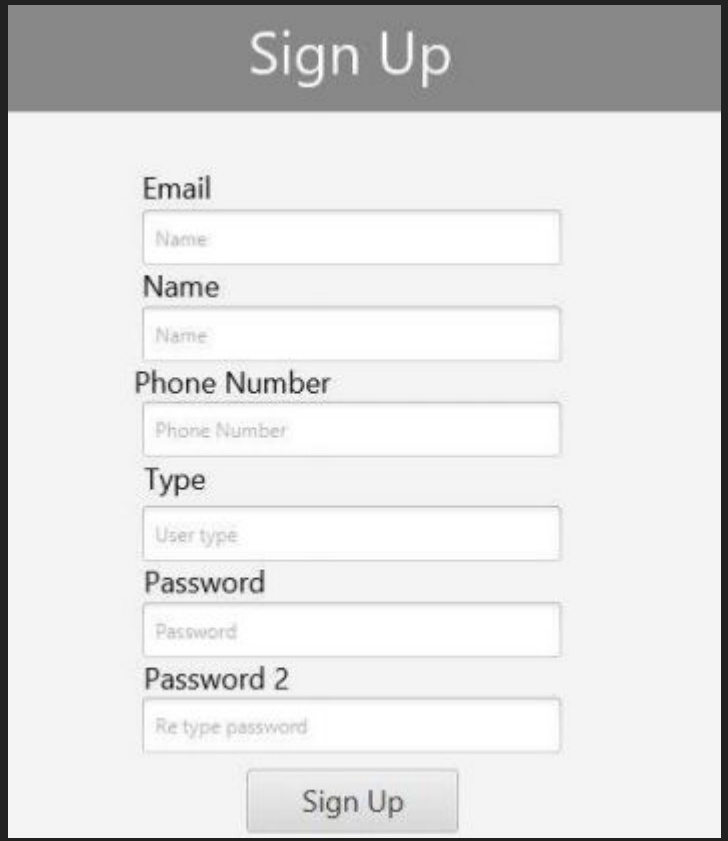
Arslan Sultanbek uulu

When user executes this program, it will show the startup GUI (Graphical User Interface).



Login GUI allows to login with librarian and ordinary user account. Now user have to option where to login with his email and password or user can create new account for himself by making registration to the system. Let’s consider the second option and look at signup process.

Sign-up procedure

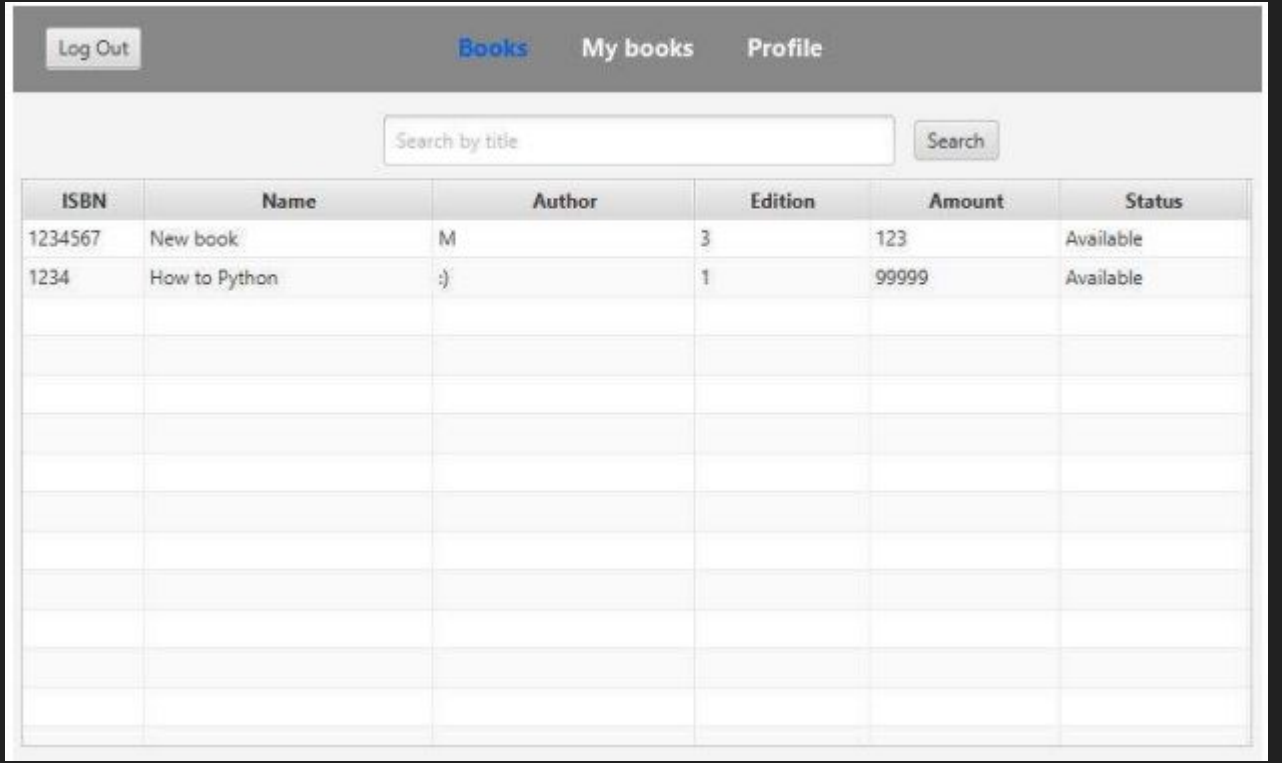


Here user needs to fill all required data about himself like name, email address, phone number, type of user like Student, Staff Member, and etc.
Finally, user needs to provide password, both **password and password2 need to be identical**. Also, none of the form fields can be empty or user will see an error telling that some fields are empty. If user made **successful registration** he will be returned to **Login screen**. If user miss clicked the signup button he can be immediately returned to **login screen** by pressing **Cancel** button.
After registration user will be allowed to login to library management system.

User GUI

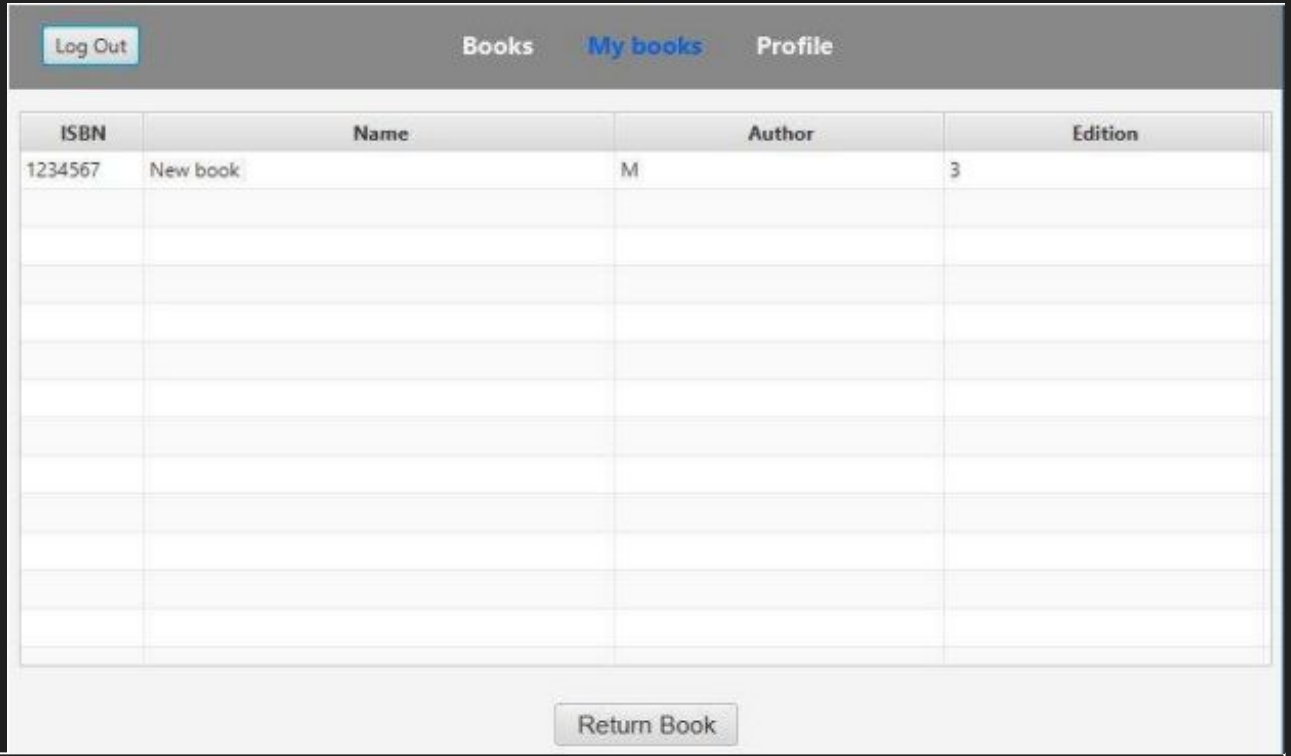
After successful authentication user will see Books screen with all books that are currently registered at library management system by librarian.

If user selected book he will see confirmation box asking whether he wants to add this book to his list.



User Books

Inside of “My Books” tab we can see all the books that was taking by user.

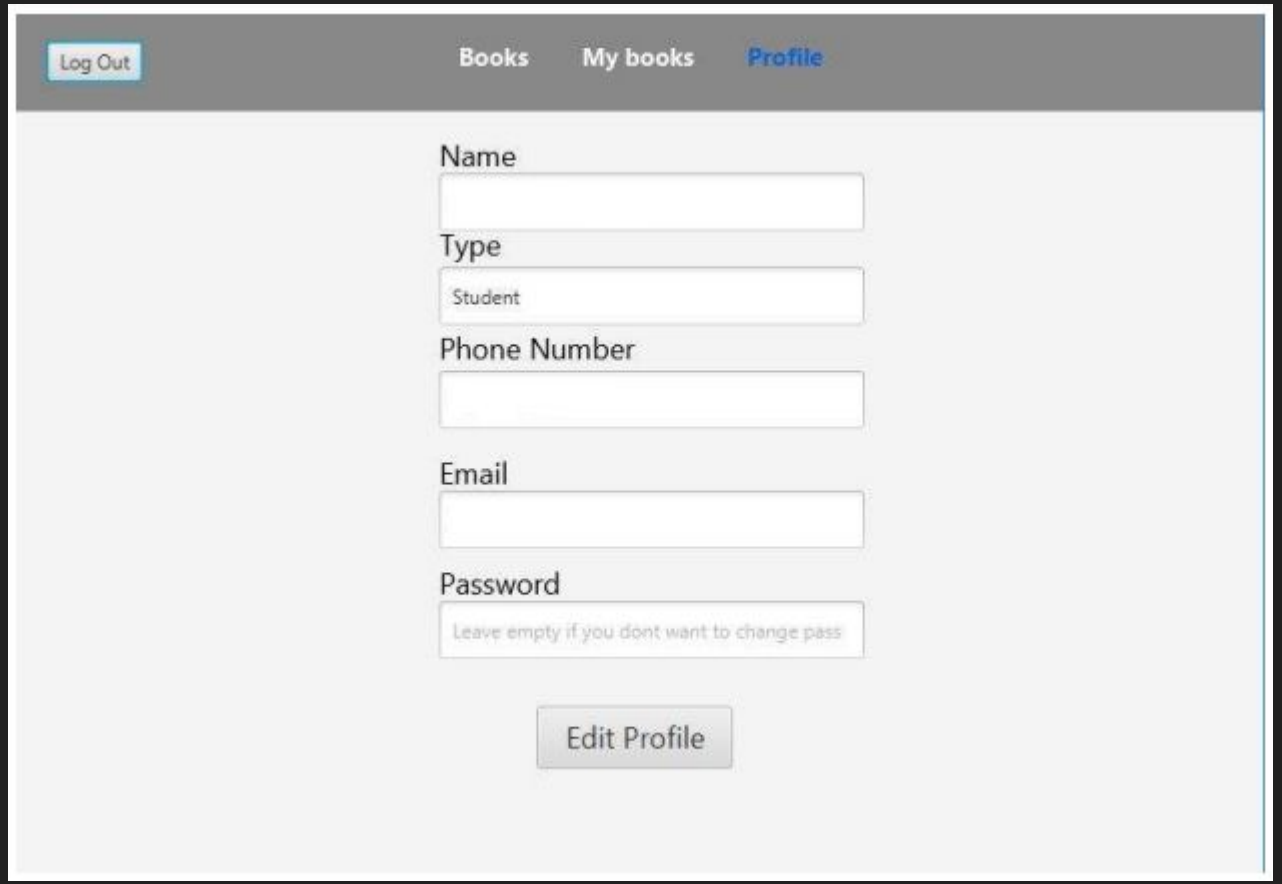


By clicking Return Book user can return book. If no book was chosen user will see alert that no was book was taken, similar to Books Screen.

If book was select user will see confirmation box where asking whether he wants to return specific book.

User Profile

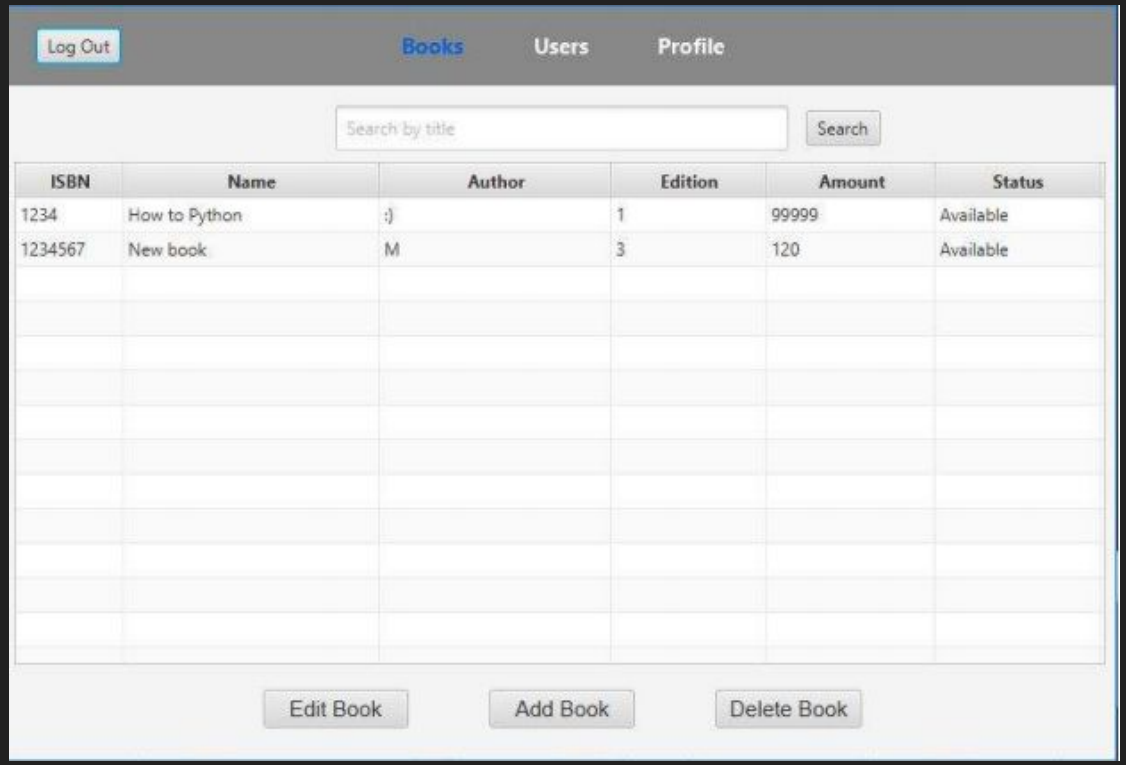
Inside of Profile Tab we can see all the information about current user and fields that prepopulated with data which is equals to user's data.



Here user can edit data about himself. None of the fields can be empty except for the password field, if user is not willing to change his current password he can leave this field empty. By clicking Edit Profile user will update their profile with the data from corresponding fields.

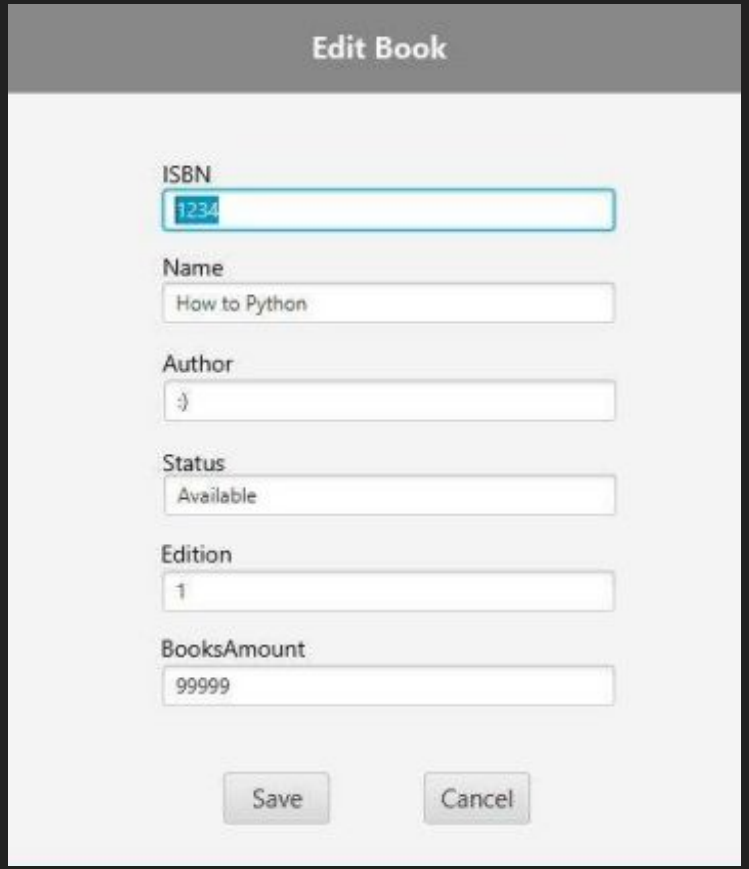
Librarian GUI

Now let's Login as Librarian. First thing that librarian sees is the same table with all available books at LIS but with some more control.



Librarian can add, delete, and edit books from this Books screen. By selecting book and clicking Edit Book librarian will see another screen with book edition form, if no book was selected librarian will see alert box similar to user Books screen.

Edit Book

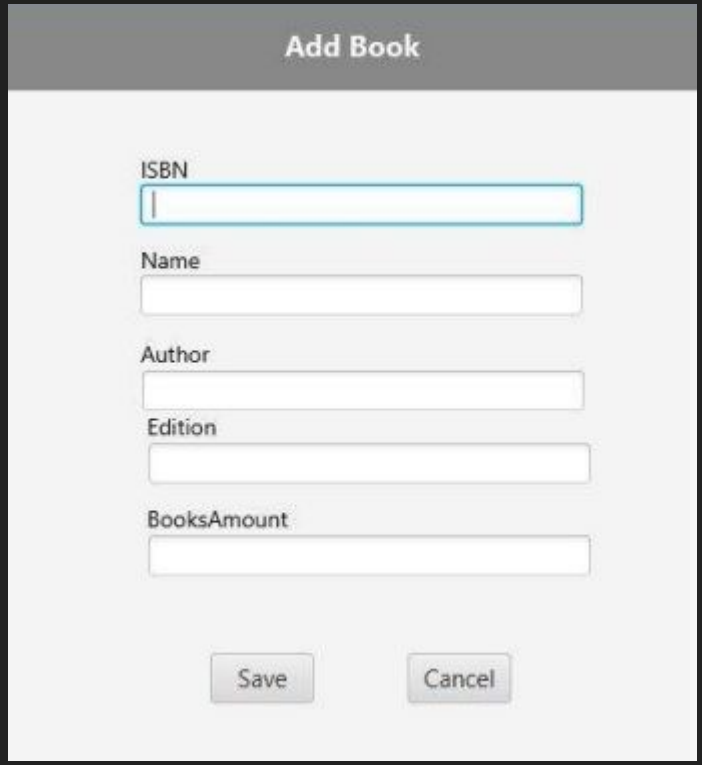


By Editing special book librarian can increase number of this book, change Name, Author, Edition.

By clicking Save librarian will save altered data to specific book, after successful editing librarian will return to Books Screen, if librarian want to cancel the process it can be done by clicking Cancel button.

Add Book

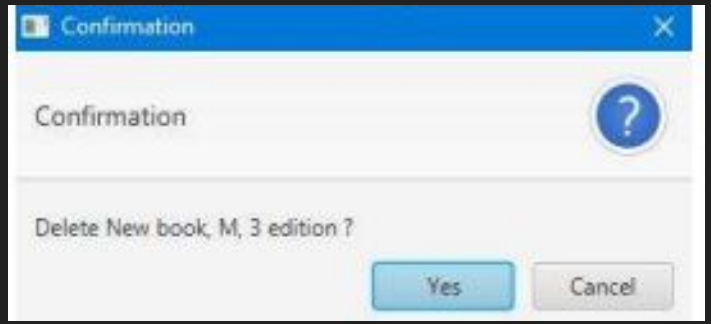
Adding book have the same screen as Book edit but without prepopulated fields. Here librarian can add new book to LIS, new book will be visible for all users and they will be taking this book.



When adding book none of the fields can be empty or librarian will see error message saying that no fields can be empty. By clicking Save librarian will save new book and will return to Books screen, but by clicking Cancel button librarian can cancel process of adding.

Delete Book

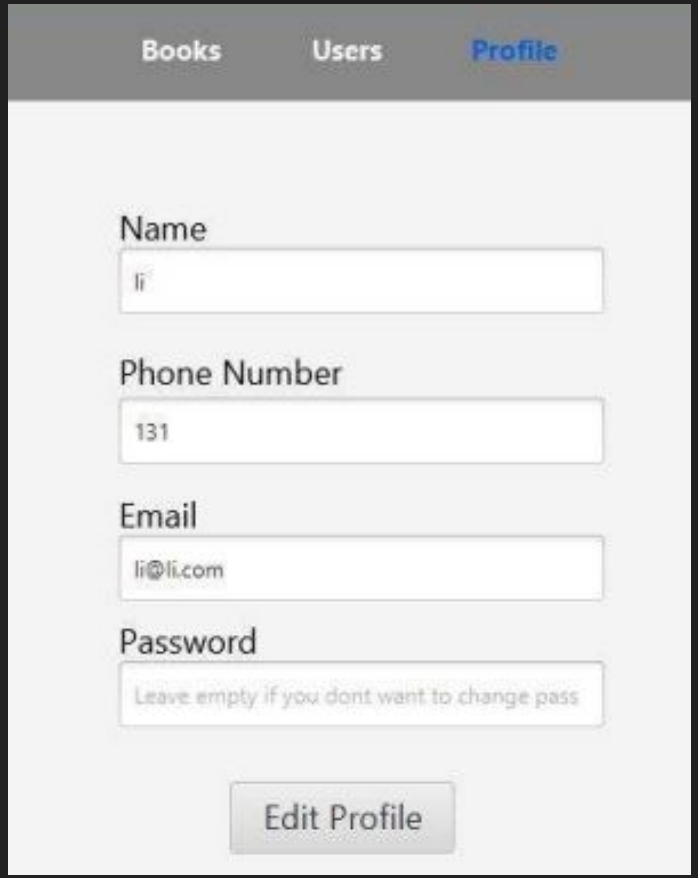
Librarian can delete book from DBMS by selecting specific book and clicking Delete Book button, if no books were selected librarian will see alert box that no book was selected, similar to Edit Book. Deleted book will be removed from all users that took this book, so be careful with this functionality, but before deleting librarian will see confirmation box. Confirmation box is protection from miss clicking, but it can’t guarantee full safety.



Users

Users screen allow to control user's ability to login by deactivating or activating their accounts.
By selecting user and clicking Disable User librarian can ban users from LIS, and by Clicking Activate User librarian can grant users ability to login. Before Disabling and Activating users program will show confirmation box to prevent misclicking. If user is already active or deactivated librarian should see alert box saying that user is already activated or disabled.

Profile



Profile screen the same as ordinary user screen prepopulated with librarian data. Similarly, none of the fields can be empty except for the password. To save changes in librarian profile press Edit Profile button.

Thank you for your attention!

Good luck with application usage:)