

# Final Project Report on Mobile Computing

Presenting

## BookLobby



By:

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## INITIAL IDEA

To facilitate a system among people in an ORGANISATION, in which they can LEND or BORROW books and study notes.

To present an application which could facilitate exchange of books among learners within an organisation.

## FINAL PRODUCT

A full-fledged real world application that reduces communication lag between book needers and book seeders in an organisation. An application in which as a lender you can upload books for others to borrow (on a free/ rent bases) and as a borrower you can search books according to your need and request for borrow. The lender has the full authority to accept/decline the borrow request.

Presently, we are aiming to make this application work within IIITD and it can used both by faculty and student.

## REAL STATISTICS

Yes, the proposed proposal has been achieved with an assumption that the borrower will return the book before or on the rent due date fixed by the lender and will not perform any mischievous activity.

Also the payment module is not handled by the application and should be settled by lender and borrower themselves.

## COMMENTS INCOPORATED

During the first and second review, we got 2 comments which helped us narrow our work resulting in better efficiency.

- First Review Comment: Display fix points instead of using MAPS for location suggestions and tracking.
- Second Review Comment: Remove validations for Btech, Mtech, Phd and rather use only '@iiitd.ac.in' validation (i.e., specific to an organisation).

## TOOLS USED

Database - Firebase

UI : xml layouts

Android Studio 3.1.4

Language : Java

## FUNCTIONALITIES IMPLEMENTED

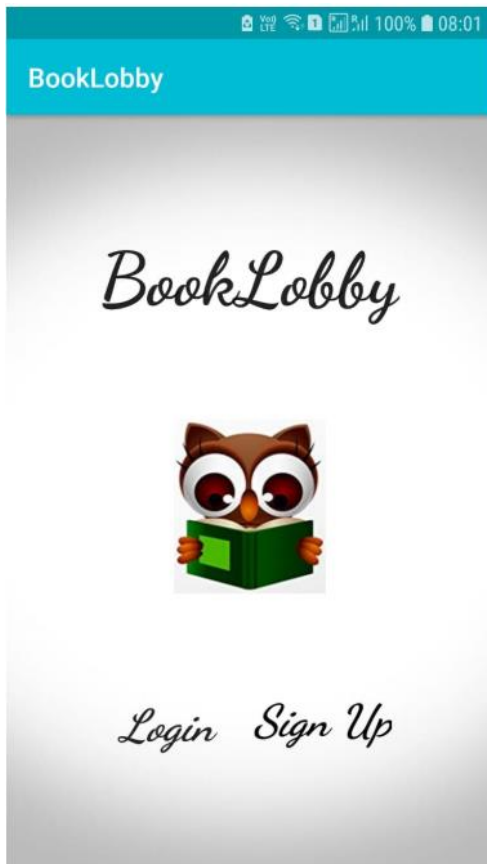
➤ **FEATURES SUPPORTED BY OUR APPLICATION** : Lending and borrowing of books

➤ **MAIN FUNCTIONALITIES:**

1. Login
2. Sign in
3. Reset Password
4. View/Edit Profile
5. Search Books
6. View Book Details
7. Add / Remove Books
8. Borrow Books
9. Lent Books
10. Change Password

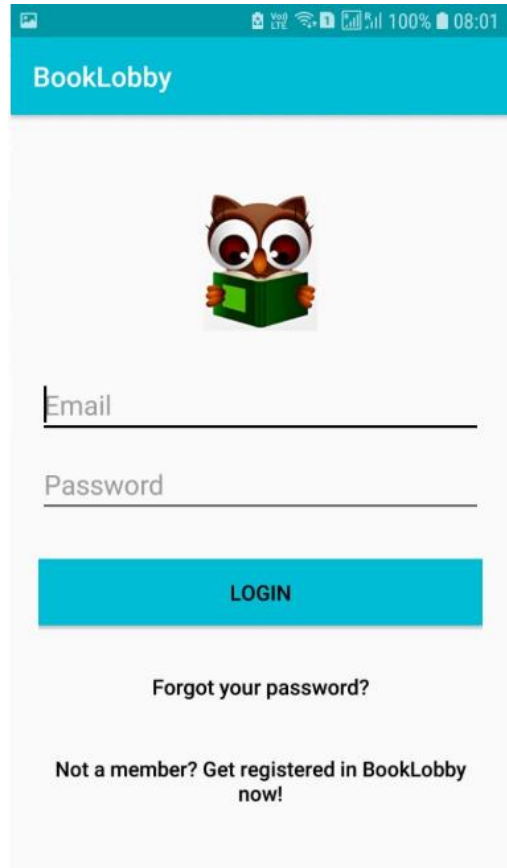
➤ **FINAL OUTCOME** – flow of application

**Home Page**



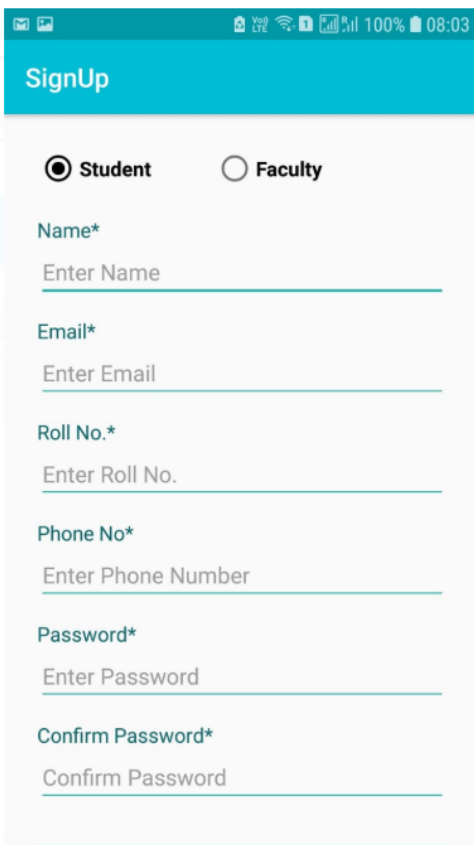
The Home Page features a teal header with the 'BookLobby' logo. The main content area has a light gray gradient background. It displays the 'BookLobby' logo in a large, elegant script font, followed by a cartoon owl reading a green book. Below the owl, the words 'Login' and 'Sign Up' are written in a cursive script.

**Login Page**



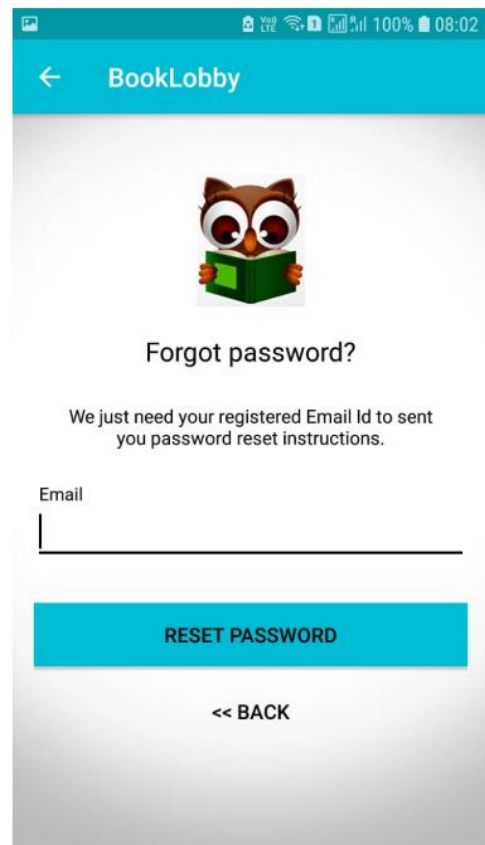
The Login Page has a teal header with the 'BookLobby' logo. It features the owl logo at the top. Below it are two input fields labeled 'Email' and 'Password'. A teal 'LOGIN' button is positioned below the password field. At the bottom, there are links for 'Forgot your password?' and 'Not a member? Get registered in BookLobby now!'.

**Signup Page**



The Signup Page has a teal header with the 'SignUp' title. It includes two radio buttons for 'Student' (selected) and 'Faculty'. Below are several input fields: 'Name\*' (placeholder 'Enter Name'), 'Email\*' (placeholder 'Enter Email'), 'Roll No.\*' (placeholder 'Enter Roll No.'), 'Phone No\*' (placeholder 'Enter Phone Number'), 'Password\*' (placeholder 'Enter Password'), and 'Confirm Password\*' (placeholder 'Confirm Password').

**Reset Password Page**

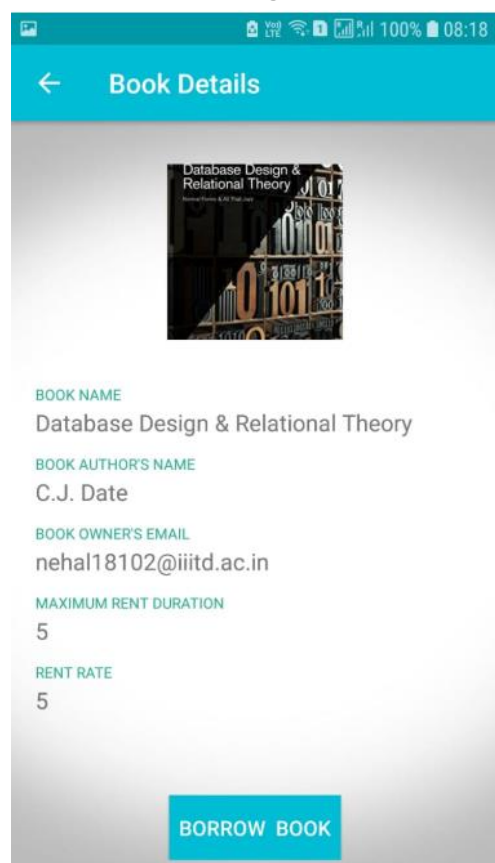


The Reset Password Page has a teal header with a back arrow and the 'BookLobby' logo. It features the owl logo and the text 'Forgot password?'. Below this, a message states: 'We just need your registered Email Id to sent you password reset instructions.' There is an 'Email' input field. A teal 'RESET PASSWORD' button is located below the input field. At the bottom, there is a '<< BACK' link.

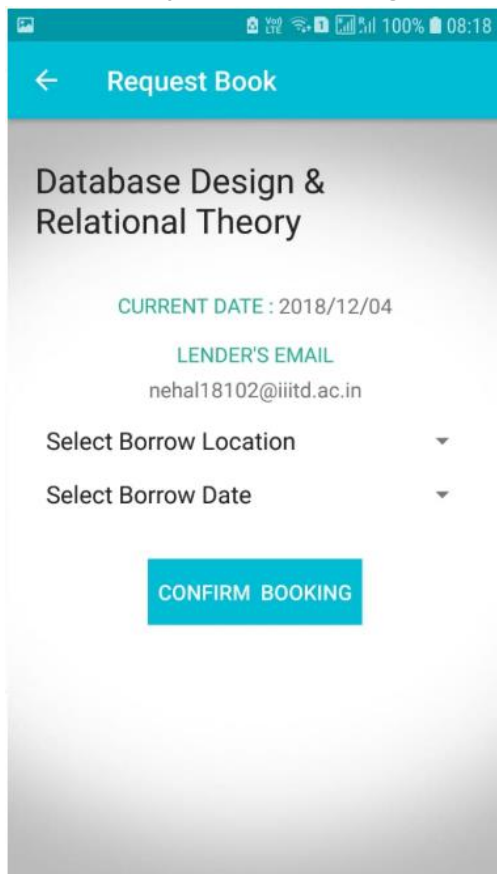
## Search Page



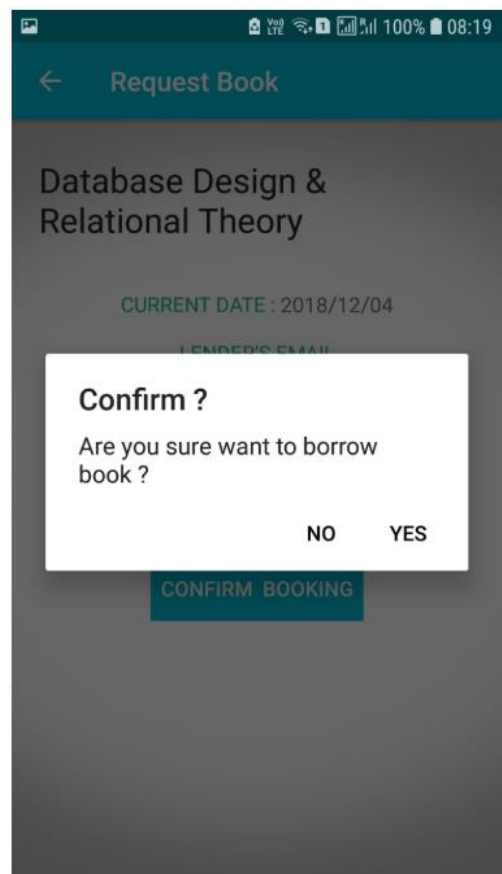
## Book Detail Page



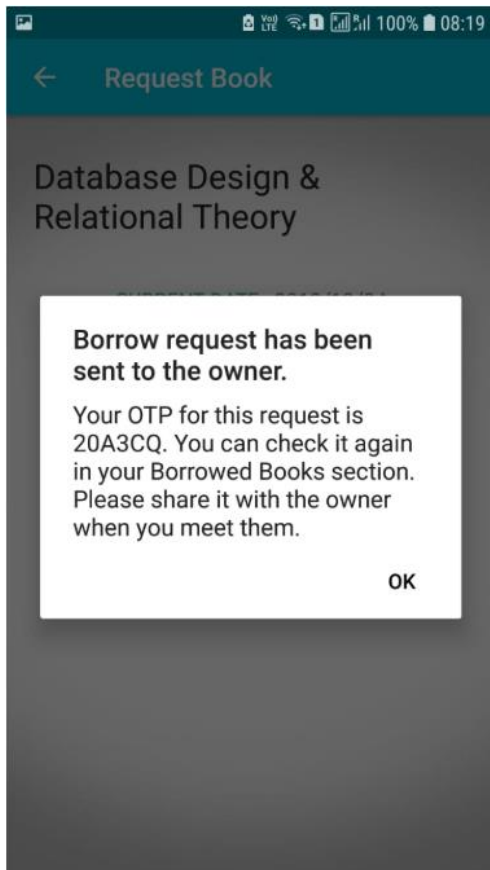
## Request Borrow Page



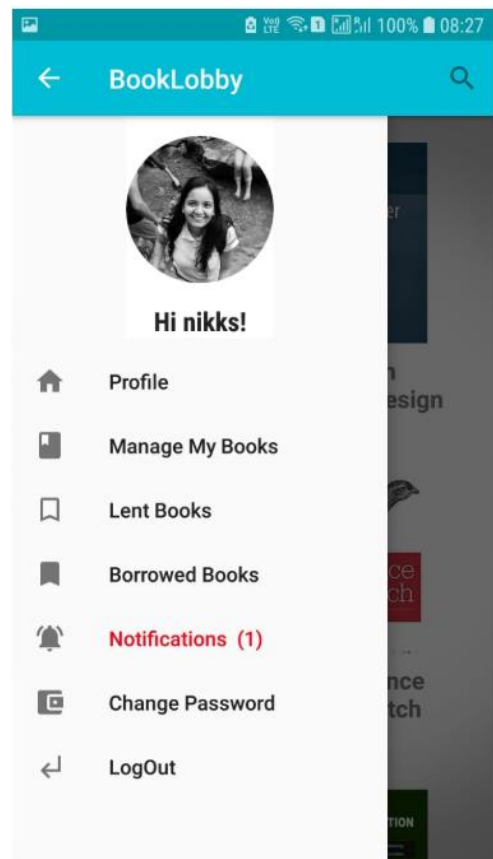
## Confirm Borrow Alert Box



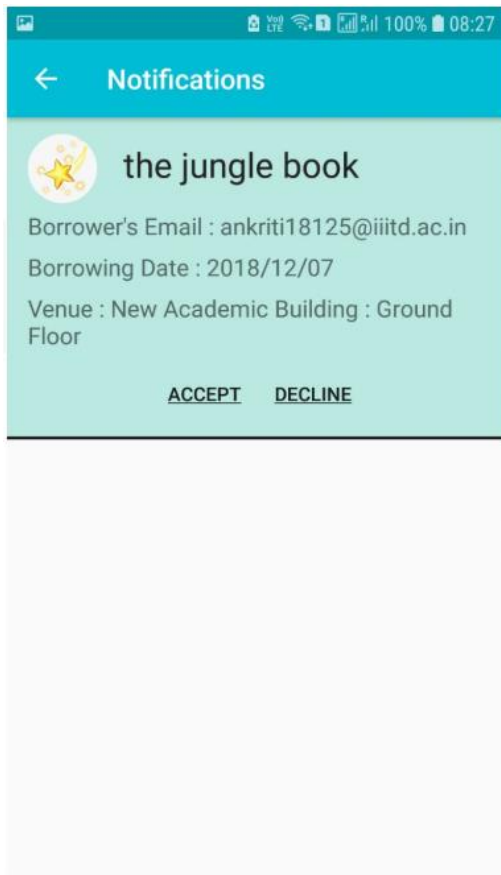
### OTP Alert Box



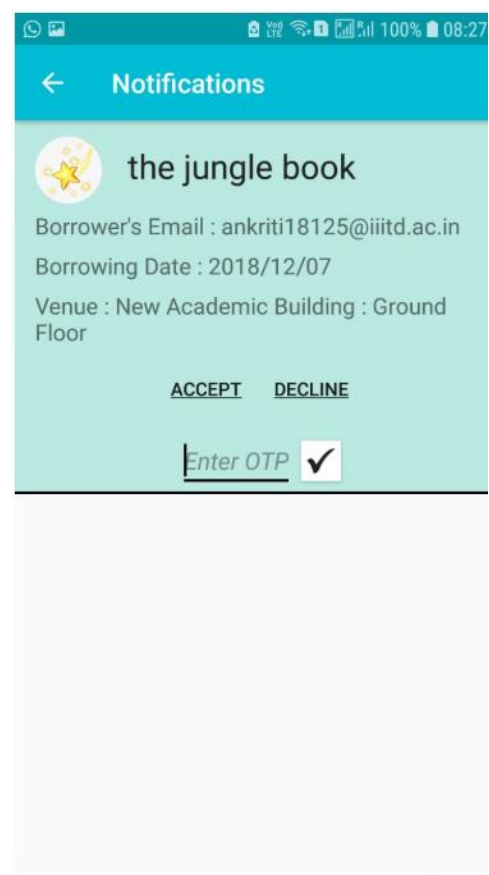
### Notification – Navigation Drawer



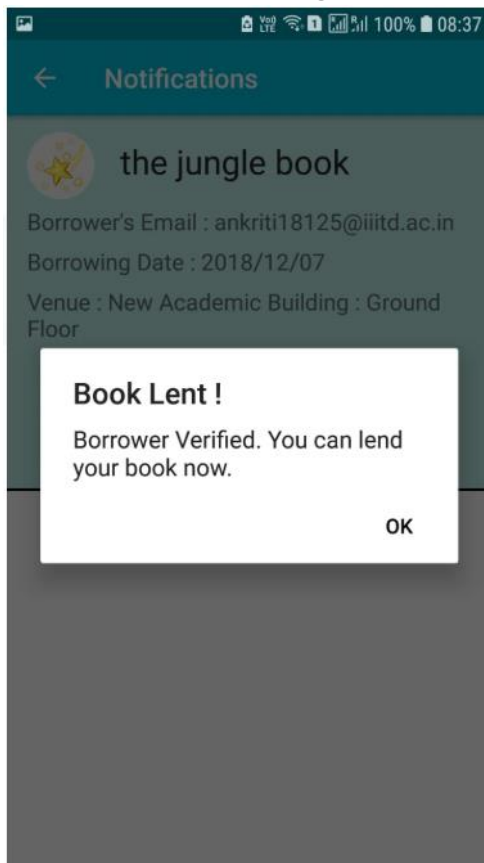
### Notification Page



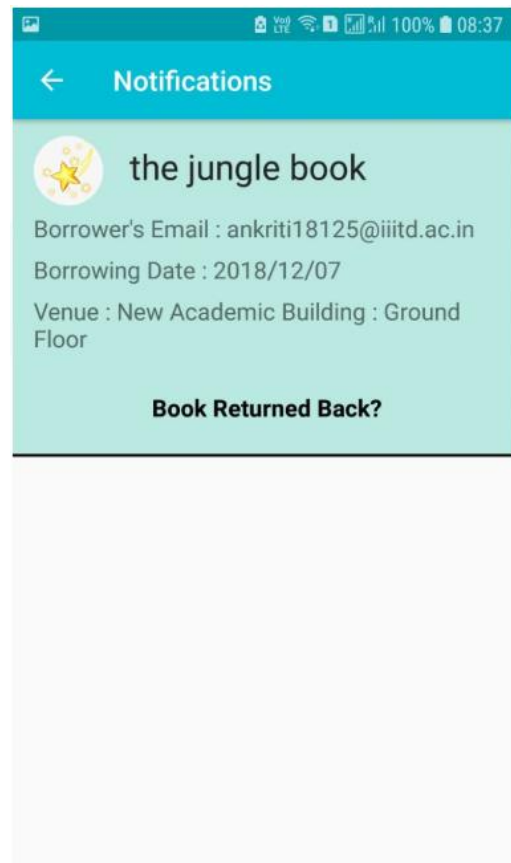
### Notification Accept



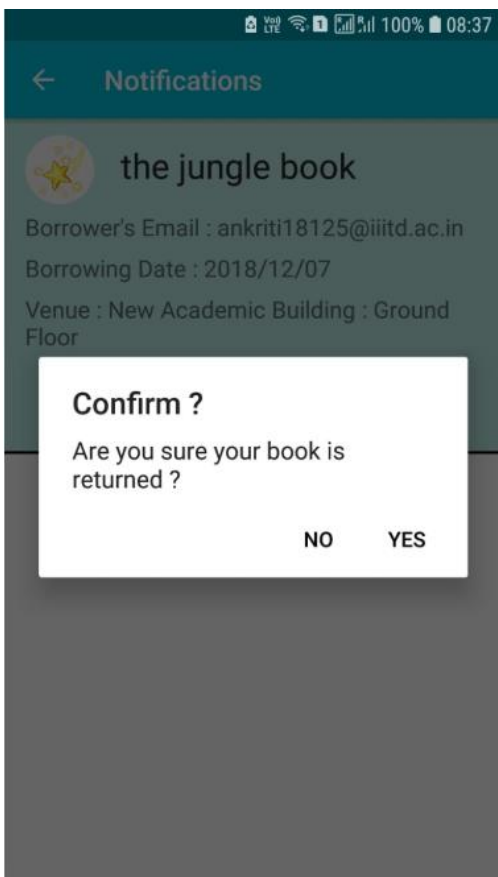
### After Validating OTP



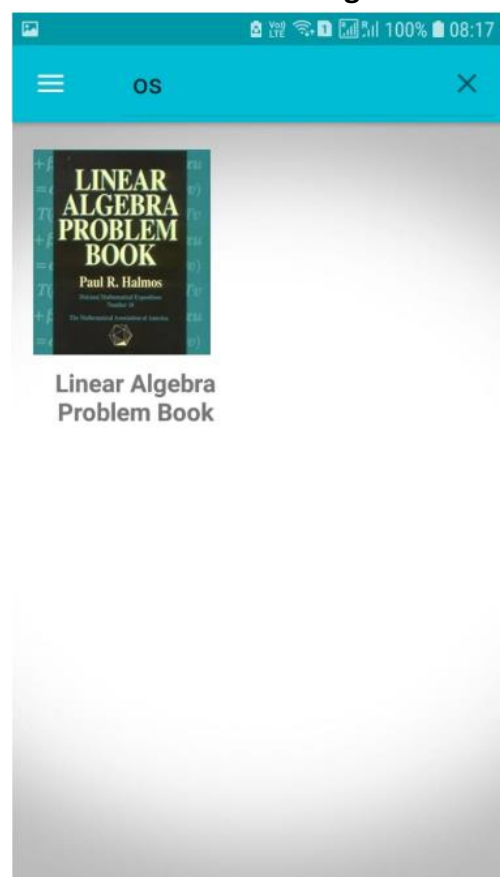
### Check For Book Return



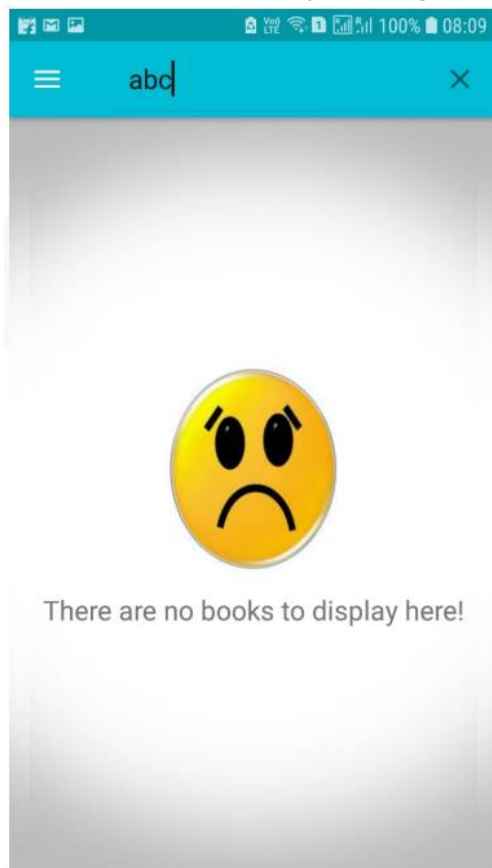
### Confirm Book Return



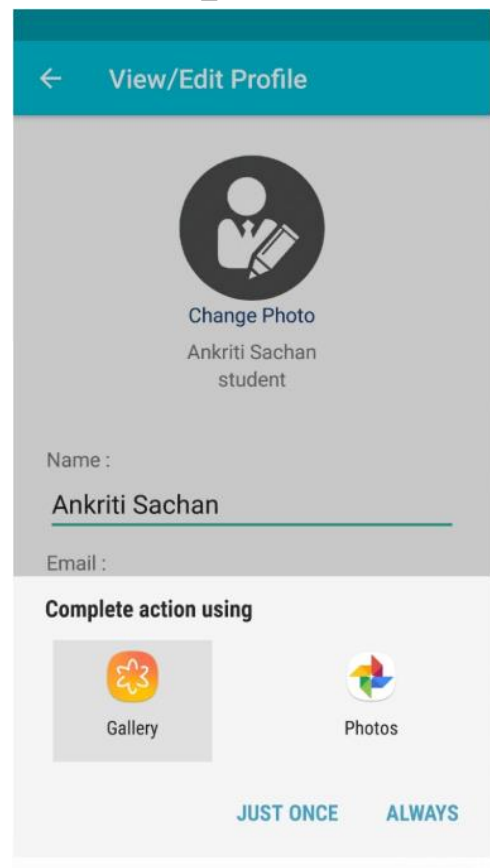
### Search Results Page



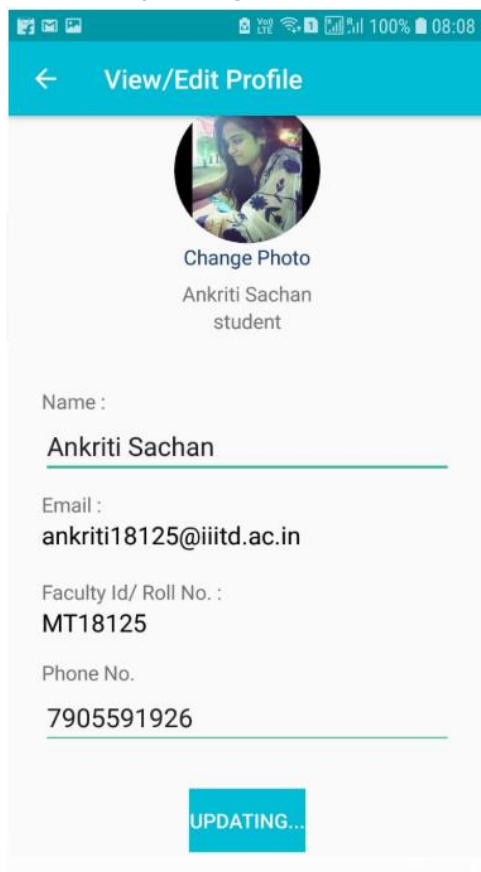
### No Book As Per Request Page



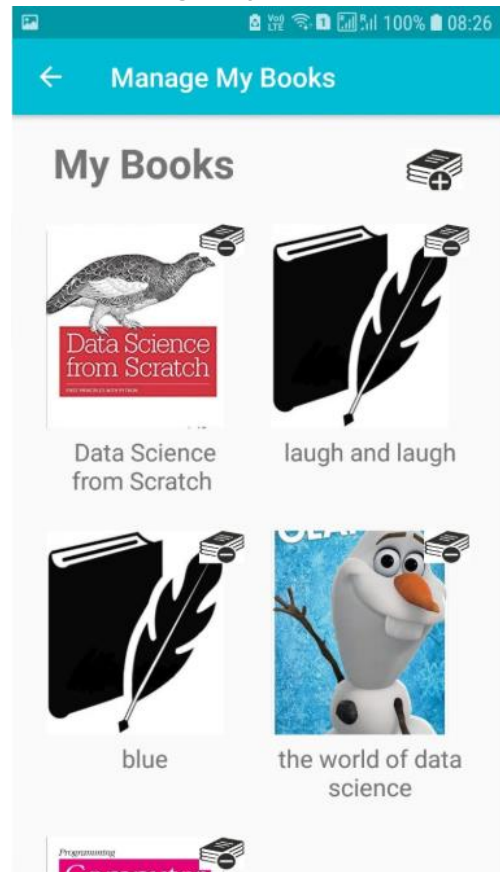
### View\_Edit Profile



### Updating Profile




### Manage My Books





### Add Book Page

BookLobby

  
Ankriti Sachan  
student

Enter Book /Notes Name

Enter Book /Notes Author's Name

Select Book Category

☒ Free  
☐ Rent


Enter Maximum Rent Duration

Upload Image : **BROWSE**

**ADD BOOK**


### Lent Book Page

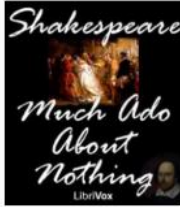
Lent Books

  
**Data Science from Scratch**

### Borrow Book Page


Borrowed Books

  
**Database Design & Relational Theory**

  
**Python for Data Analysis**

### Borrow Book Detail Page

Book Details



**BOOK NAME**  
Database Design & Relational Theory

**BOOK AUTHOR'S NAME**  
C.J. Date

**BOOK OWNER'S EMAIL**  
nehal18102@iiitd.ac.in

**MAXIMUM RENT DURATION**  
5

**RENT RATE**  
5

**ONE TIME PASSWORD**  
20A3CQ

## TEAM MEMBER CONTRIBUTION

Niharika Arora (MT18114)	Frontend Lent Books Borrowed Books Reset Password
Aakanchha Trivedi (MT18121)	Backend Login Manage my books Search Change Password
Ankriti Ramchandra Sachan (MT18125)	Backend Book Details Request Borrow Notification
Ekta Bipinbhai Tank (MT18147)	Testing Signup View _Edit Profile

## FUTURE WORK

- To handle online payments
- To handle the complaint section

## GITHUB REPOSITORY LINK AND HANDLE

### Link –

[https://www.google.com/url?q=https://github.com/aakanchha01/iiitd-m2018-cse535/tree/coderjacks-final-projects submission&sa=D&source=hangouts&ust=1543980531165000&usg=AFQjCNFsB-AumfGv036tZleE7skbFY\\_mVA](https://www.google.com/url?q=https://github.com/aakanchha01/iiitd-m2018-cse535/tree/coderjacks-final-projects submission&sa=D&source=hangouts&ust=1543980531165000&usg=AFQjCNFsB-AumfGv036tZleE7skbFY_mVA)

### Team Member Handles:

1. Niharika Arora – niharika2530
2. Aakanchha Trivedi – akanchha01
3. Ankriti Ramchandra Sachan - ankritisachan
4. Ekta Bipinbhai Tank - ektatank