Lend Indeed

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MAD-314

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Introduction

1. Introduction

The purpose of this project is to create an Android Mobile Application which will help the students (who will be the user of our application) to borrow the items such as Books, Computers, laptops, etc. Students and Admin will be the primary users of our application.

Admin and Students both have their own login access and both have their own different dashboards and features. The purpose of this documentation is to define the overall project specification as well as the general direction of the prototype development. In this case, the targeted readers of the document are the stakeholders, who are interested in the utilization of the application as well as the developers that will be creating the application.

PROJECT DESCRIPTION

2. Project Description

The Lend System Application is built to let the student find the items and borrow it according to their desire. The application is being developed on Android Studio using java language. Xml files are also used just to design for application. For connectivity, we will use a My sql database to store the information and data into it.

Throughout the application development, we will use Scrum Agile and also use Github. We will divide into four sprints and the time period of each sprint will be two weeks. After two weeks, we will present the progress to our coordinator and get feedback from them.

2.1 Planned Sprint Timeline

Sprints	Start Date	End Date
1	05-05-2020	24-05-2020
2	25-05-2020	07-06-2020
3	08-06-2020	28-06-2020
4	29-06-2020	14-07-2020

REQUIREMENTS

3. Requirements

3.1. Functional Requirements:

ID	Description	Comments
F01	The application must have a Splash screen.	To show the logo.
F02	The application must have a Login screen and Sign-up page for both admins as well as for users.	To access the account for application and password must be greater than 8.
F03	The application must have a page where users can see their information like student id, total no of items, no of borrowed items, favorite.	To display information for students.
F04	The application must have a page to recover their password in case of forgetting the password.	To secure the account for users and admin.
F05	The user must get the notification like when will the items again be available if the item will be borrowed by someone but not see the name of the borrowed person.	To get updated with an application.
F06	The student can search for a particular item by filters like date, type, and request admin for a particular item.	A list of items will be displayed and filter out items.

F07	The application must have a page where the admin can manage all the data like a list of items and borrowed items and a list of students etc.	Allow them to manage and save data in files.
F08	The application must show the deadline of borrowed items in the student profile as well as administration data record.	Allow returning items before deadlines.

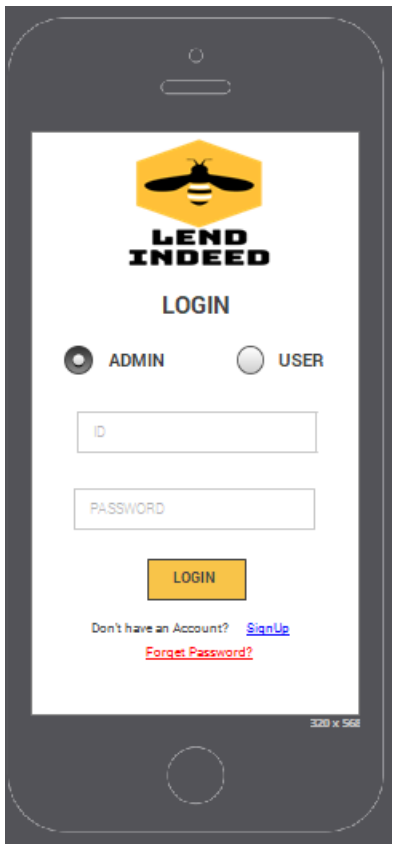
3.2 Non-functional Requirements:

ID	Description	Comment
NFR-01	The user and admin confirm the email address to protect data from unauthorized users.	Other Operating System not covered
NFR-02	The users have their own Android Operating System.	Other operating must will not work
NFR-03	Internet connection is must before accessing application.	To avoid unnecessary charges
NFR-04	The system must logout automatically when the user or admin is no longer using an app.	For security
NFR-05	The system should be accessible by all the registered members.	Accessibility

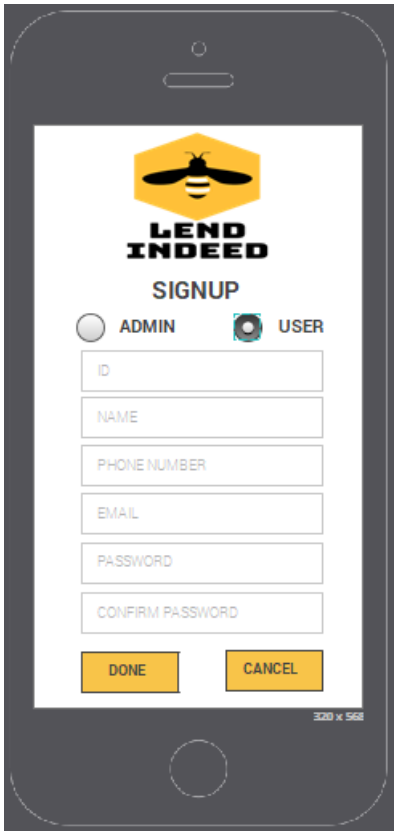
MOCKUPS

4. Mockups

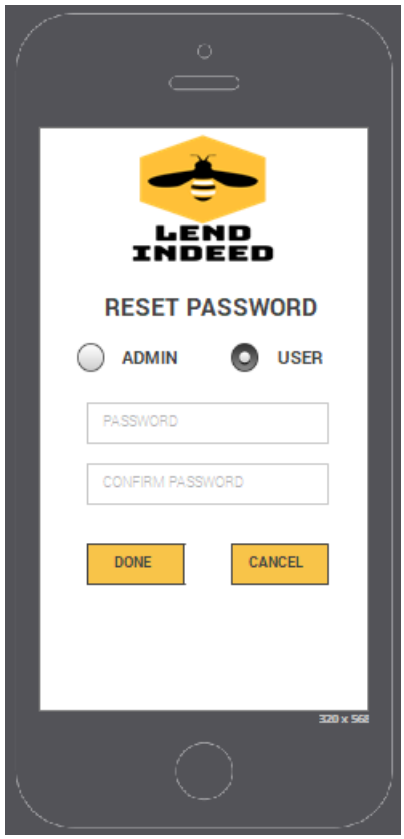
SPLASH PAGE



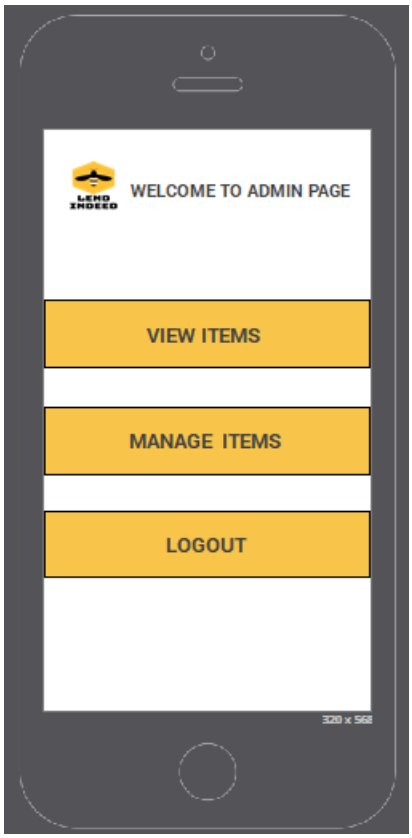
LOGIN PAGE


LEND INDEED
SIGNUP
ADMIN
USER
ID
NAME
PHONE NUMBER
EMAIL
PASSWORD
CONFIRM PASSWORD
DONE
CANCEL
320 x 568

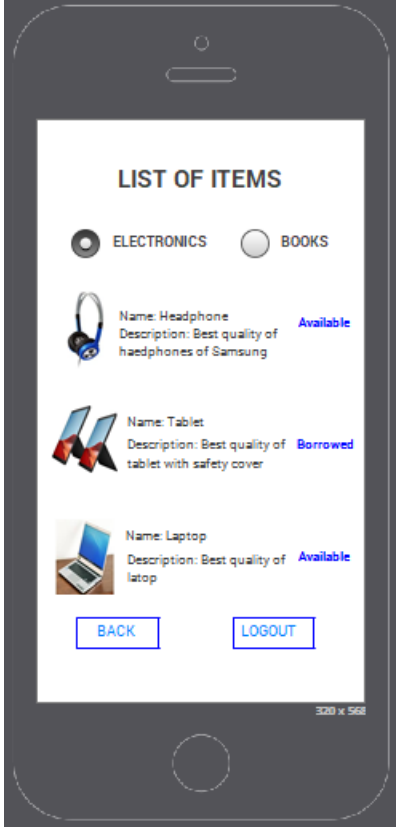
SIGNUP PAGE


LEND INDEED
RESET PASSWORD
ADMIN
USER
PASSWORD
CONFIRM PASSWORD
DONE
CANCEL
320 x 568

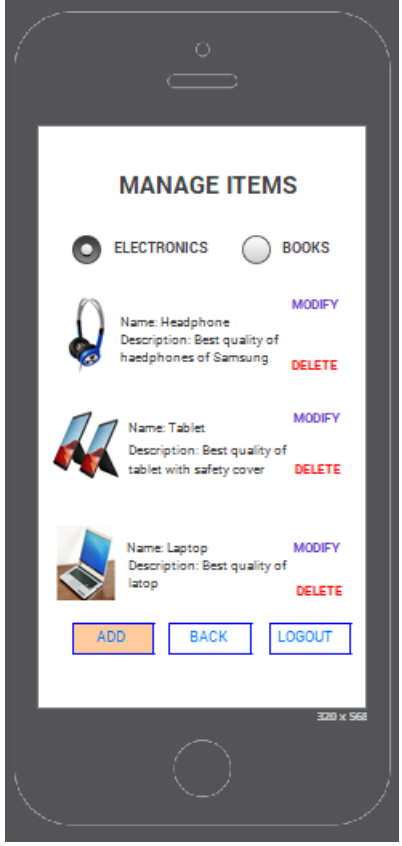
RESET PASSWORD PAGE



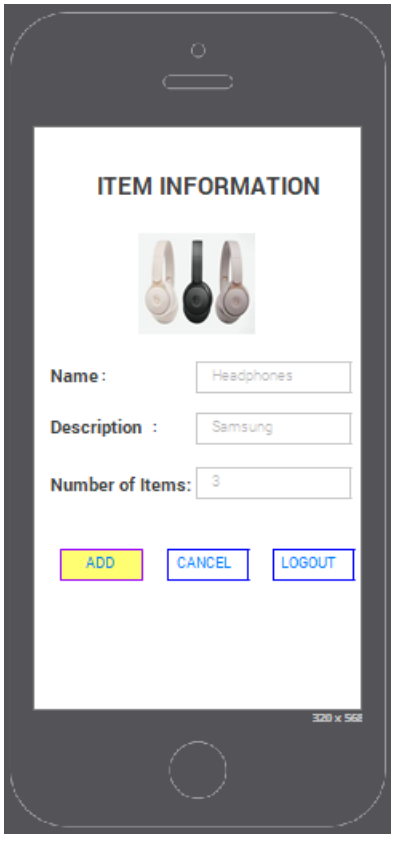
ADMIN PAGE



ADMIN CAN VIEW ITEMS



ADMIN CAN MANAGE ITEMS



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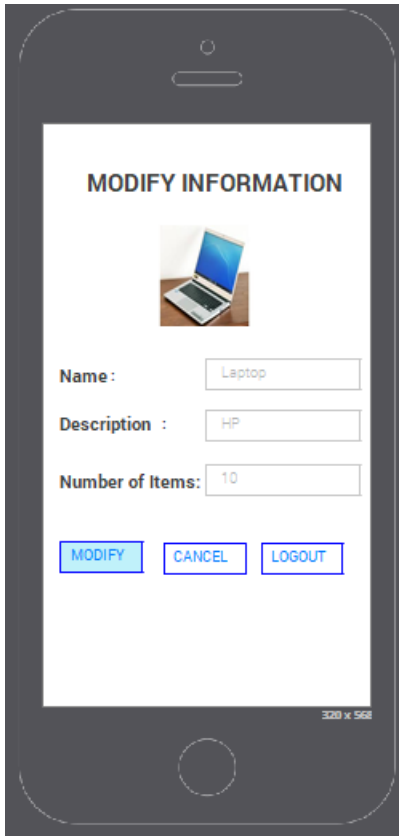
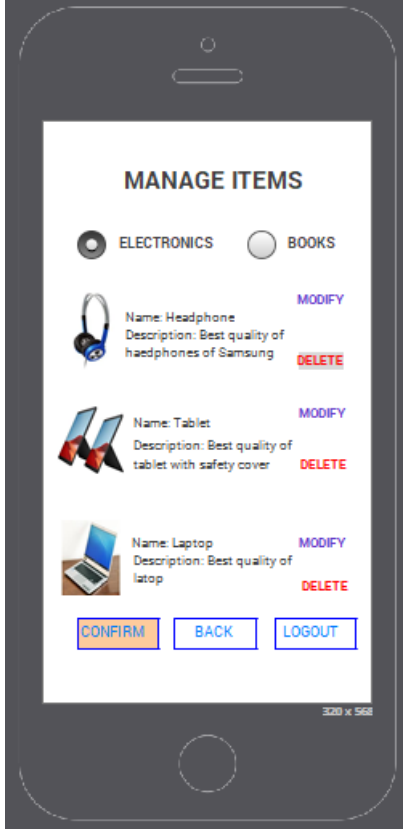
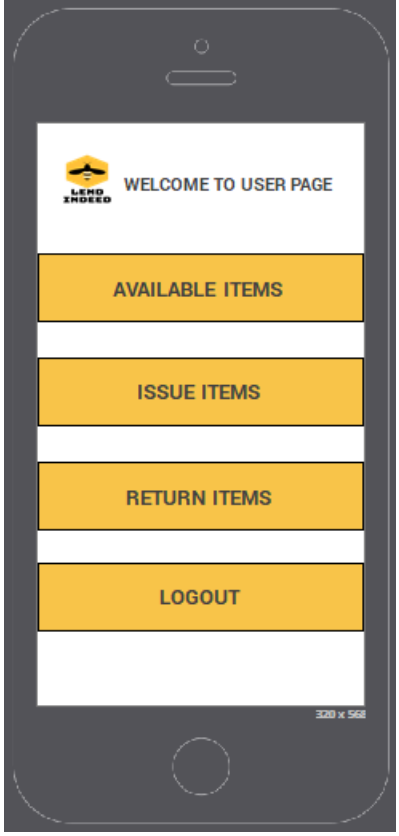


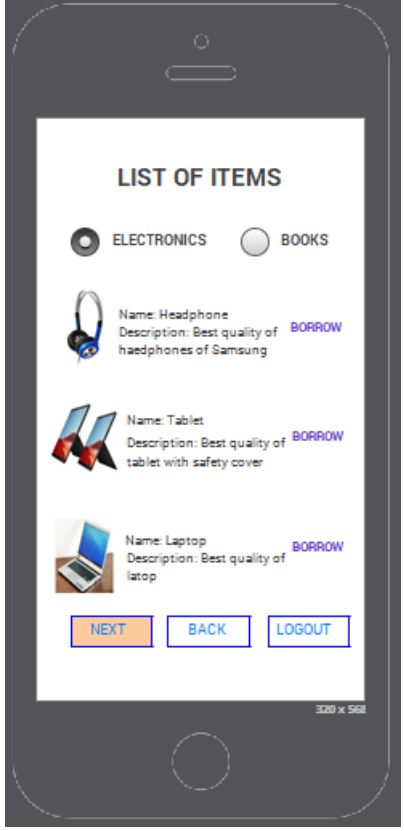
ADMIN CAN MODIFY ITEM



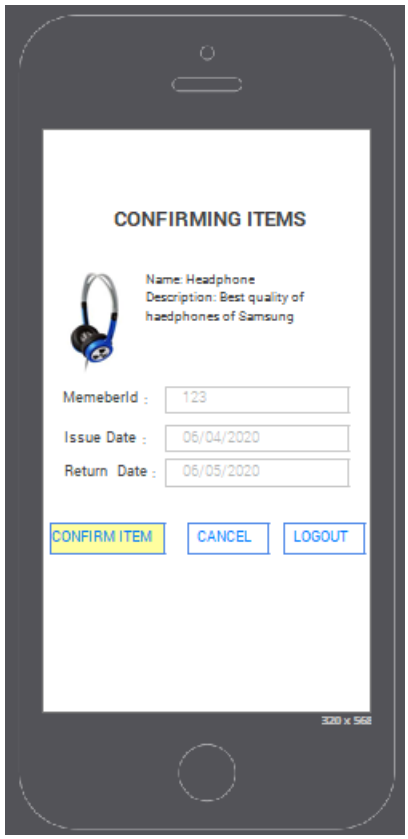
ADMIN CAN DELETE ITEM


WELCOME TO USER PAGE
AVAILABLE ITEMS
ISSUE ITEMS
RETURN ITEMS
LOGOUT
320 x 568

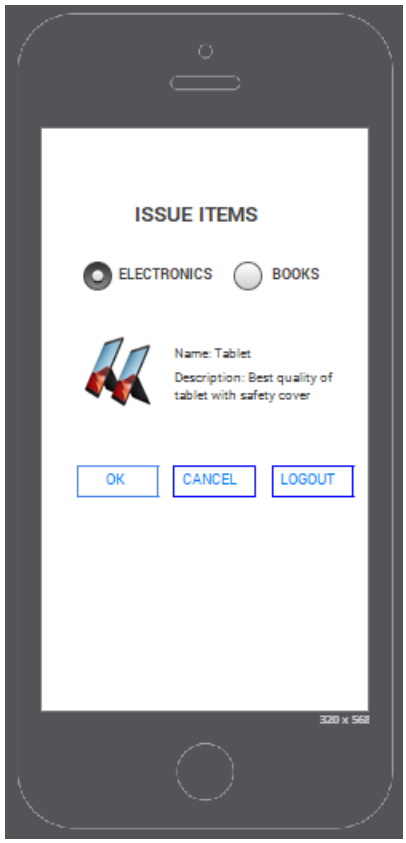
USER PAGE



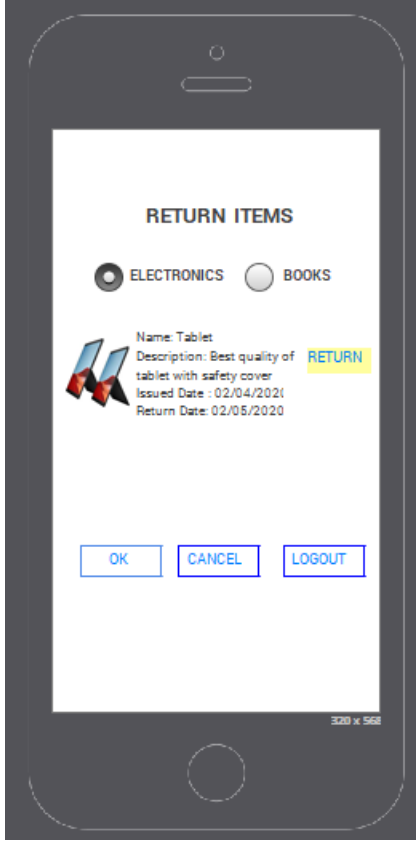
USER CAN SEE AVAILABLE ITEMS



USER CONFIRMING ITEMS



USER CAN SEE ISSUED ITEM



USER CAN RETURN ITEMS

USER STORIES

5. User Stories

User Story	US-01
Name	As an admin, i want to register so that i can authenticate myself and create account for the application.
User Story Point	13
Priority	Highest

User Story	US-02
Name	As an Admin, i want to add some new items so that new item will show in my application every time.
User Story Point	5
Priority	Highest

User Story	US-03
Name	As a user, i want sign up so that i can create a account for this application.
User Story Point	5
Priority	Medium

User Story	US-04
Name	As a user, I want login page so that i can access

	this application.
User Story Point	5
Priority	Highest

User Story	US-05
Name	As an Admin, i want a get notification when new user sign-up so that I can manage their profile.
User Story Point	3
Priority	Highest

User Story	US-06
Name	As a user, i want to see all the list of available items so that I can choose item according to my preference.
User Story Point	13
Priority	Medium

User Story	US-07
Name	As an admin, after sign up of user I want a page where I can verify trustworthy user so that I can secure my account.
User Story Point	13
Priority	Highest

User Story	US-08
Name	As an admin, i want to modify some items so that items can up to date every time.
User Story Point	5
Priority	Medium

User Story	US-09
Name	As a user, i want a logout page so that I can logout from the application and secure my account.
User Story Point	5
Priority	Low

User Story	US-10
Name	As a user, i want to request to administration to lend particular selected items so that I can borrow item.
User Story Point	5
Priority	Medium

User Story	US-11
Name	As an admin, i want to able to send notification to user to give confirmation of selected lend items so that I can manage all the record of user.
User Story Point	13
Priority	Highest

User Story	US-12
Name	As a user, I want to see my profile of selected items so that I can return lend items before due date.

User Story Point	3
Priority	Low

User Story	US-13
Name	As an Admin, i want to delete some items from the list so that unwanted item will remove from record.
User Story Point	5
Priority	Medium

PRODUCT BACKLOG

6. Product Backlog:

User Story	Name	User Story Point	Priority
US-01	As an admin, i want to register so that i can authenticate myself and create account for the application.	13	Highest
US-02	As an Admin, i want to add some new items so that new item will show in my application every time.	5	Highest
US-03	As a user, i want sign up so that i can create a account for this application.	5	Medium
US-04	As a user, I want login page so that i can access this application.	5	Highest
US-05	As an Admin, i want a get notification when new user sign-up so that I can manage their profile.	3	Highest
US-06	As a user, i want to see all the list of available items so that I can choose item according to my preference.	13	Medium
US-07	As a admin, after sign up of user I want a page where I can verify trustworthy user so that I can secure my account.	13	Highest
US-08	As an admin, i want to modify some items so that items can up to date every time.	5	Medium
US-09	As a user, i want a logout page so that I can logout from the application and secure my account.	5	Low
US-10	As a user, i want to request to administration to lend particular selected items so that I can borrow item.	5	Medium

US-11	As an admin, i want to able to send	13	Highest

	notification to user to give confirmation of selected lend items so that I can manage all the record of user.		
US-12	As a user, I want to see my profile of selected items so that I can return lend items before due date.	3	Low
US-13	As an Admin, i want to delete some items from the list so that unwanted item will remove from record.	5	Medium
Total User Story points		91	

PLANNED SPRINT

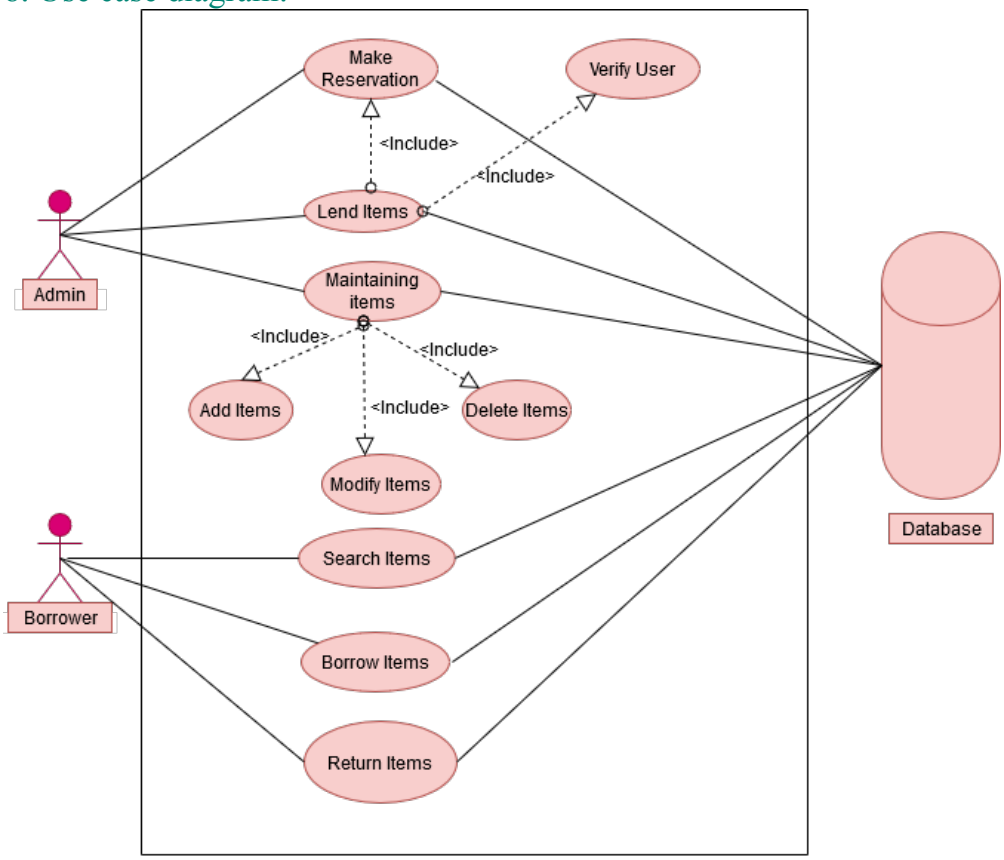
7. Planned Sprint:

Sprint	User Stories	USP	Priority
Sprint 1	US-03:-As a user, I want to sign up so that I can create an account for this application.	5	Medium
	US-01:-As an admin, I want to register so that I can authenticate myself and create account for the application.	13	Highest
	US-04:-As a user, I want a login page so that I can access this application.	5	Highest
Sprint 2	US-02:-As an admin, I want to add some new items so that new item will show in my application every time.	5	Highest
	US-05:-As an admin, I want to get notification when new user sign-up so that I can manage their profile.	3	Highest
	US-06:-As a user, I want to see all the list of available items so that I can choose item according to my preferences.	13	Medium
Sprint 3	US-07:-As an admin, after sign up of a user I want a page where I can verify trustworthy user so that I can secure my account.	13	Highest
	US-08:-As an admin, I want to modify some items so that items can up to date every time.	5	Medium

	US-09:-As a user, I want a logout page so that I can logout from the application and secure my account.	5	Low
Sprint 4	US-10:- As a user, I want to request to administration to lend particular selected items so that I can borrow item.	5	Medium
	US-11:- As an admin, I want to able to send notification to user to give confirmation of selected lend items so that I can manage all the record of user.	13	Highest
	US-12:- As a user, I want to see my profile of selected items so that I can return lend items before due date.	3	Low
	US-13:- As an Admin, i want to delete some items from the list so that unwanted item will remove from record.	5	Medium
	Total User Story Points	91	

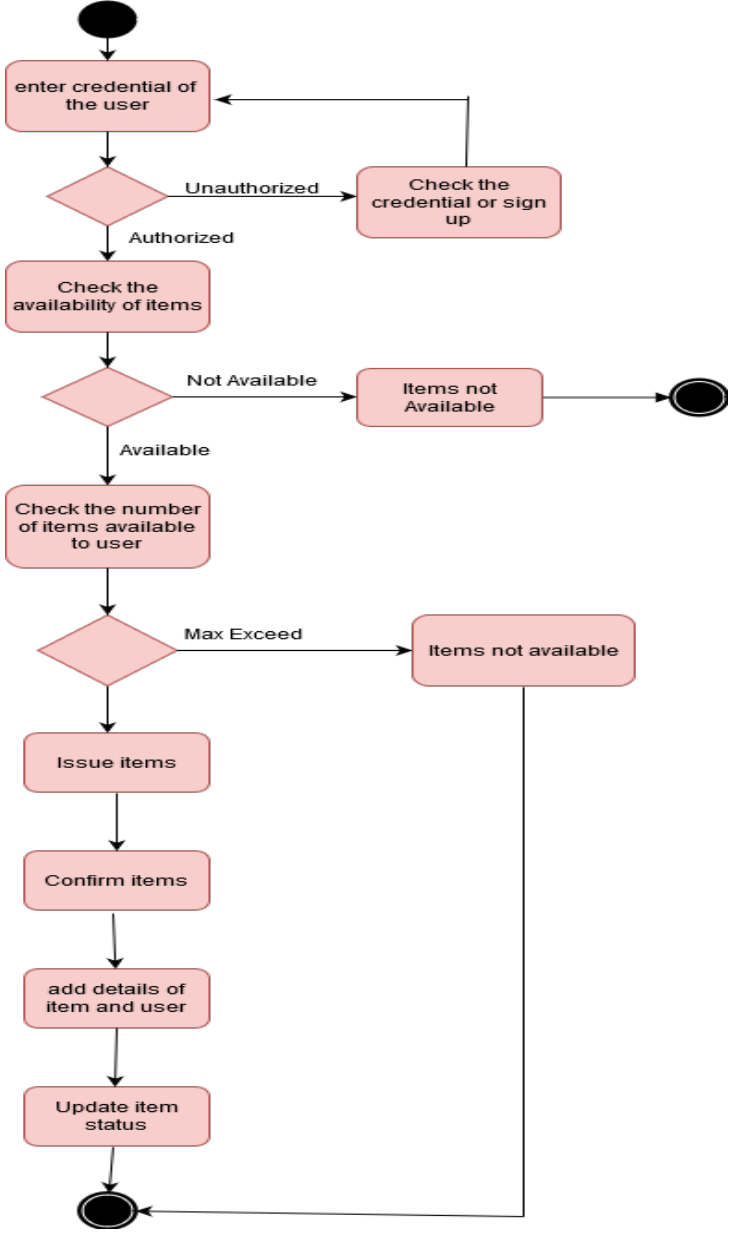
Use Case Diagram

8. Use case diagram:



Activity Diagram

9. Activity diagram:


enter credential of the user
Unauthorized
Check the credential or sign up
Authorized
Check the availability of items
Not Available
Items not Available
Available
Check the number of items available to user
Max Exceed
Items not available
Issue items
Confirm items
add details of item and user
Update item status