Web Project Documentation

"Skyline Public Library"

Logo

Git Link – Click Here

Or Visit
https://github.com/rutushah/Library_Management_System

BY Team 3

Rutu Shah	**2094023**
Komal Vekariya	**2094564**
Unnati Patel	**2093906**
Chetan Bakshi	**2095760**

Index:

S.no	Description	Page No.
1	Introduction.	2
1.1	Scope.	2
1.2	Project overview.	2,3
2	Design Wireframe from First time visitors Perspective.	4,5
3	Design Wireframe from User Perspective.	6-15
4	Design Wireframe from Admin Perspective.	16- 33
5	Design Wireframe from Staff Perspective.	33- 44
6	User Story.	45- 47
7	Activity Diagram from Admin End.	54
8	Activity Diagram from Staff End.	55
9	Activity Diagram from User End.	56
10	Class Diagram	57
11	Sequence Diagram of Admin, Staff and User end.	58-62
12	Fully Dressed Use Case	63-79
13	Functional / Non-functional Requirements.	80-81
14	Database Schema	82

1 Introduction.

The project Library Management System aims at developing a fully functional computerized system to maintain all the day-to-day activity of a library.

library management falls under “Service providing category”, This project has many features such as the facility of user login and Staff login. Also, on top of all this, there is an admin who will be managing the entire system.

1.1 Scope.

If any author wishes to sign up and reserve a meeting space for the launch of his book. In order to schedule the book launch event, he has to visit the library.

If the user wants to rent DVDs, CDs, or projectors, then he needs to visit the library front desk to rent those items.

Meeting spaces can’t be booked online as of now.

1.2 Project Overview.

A library management system is used to maintain library records. It tracks the records of the number of books in the library, how many books are issued, or how many books have been returned or renewed, or late fine charges, etc.

In the Skyline Library management, there are three different users who will be accessing the website: The Admin, The Library Staff, and the Users, i.e., the members of the library.

The members need to register themselves by paying a bi-annual membership charge of $60.

The user who wants to register should also submit a photo ID proof for the address proof, which will be viewed by the staff, and he will get an acknowledgement as soon as the registration is successful.

The member can go through a lot of catalogues and select the book he wants to rent.

A member can rent 3 books at a time, and he needs to deposit one of the 3 pre-issued books if he wants to take away the new book.

A book is issued for 3 weeks, and after that, there is a fine of $5 per week on the user's account.

A user can also download the available e-books free of charge. For a hard copy book, the member needs to visit the library and get it issued. The location of the book can be seen online on which rack it is in the library.

The staff will be responsible for keeping track of the books, issuing the books to the members, and updating them in the database. The staff will be reviewing the submitted photo ID and approving or declining the request.

The staff can block and unblock the members, and based on this, the members will be able to rent books.

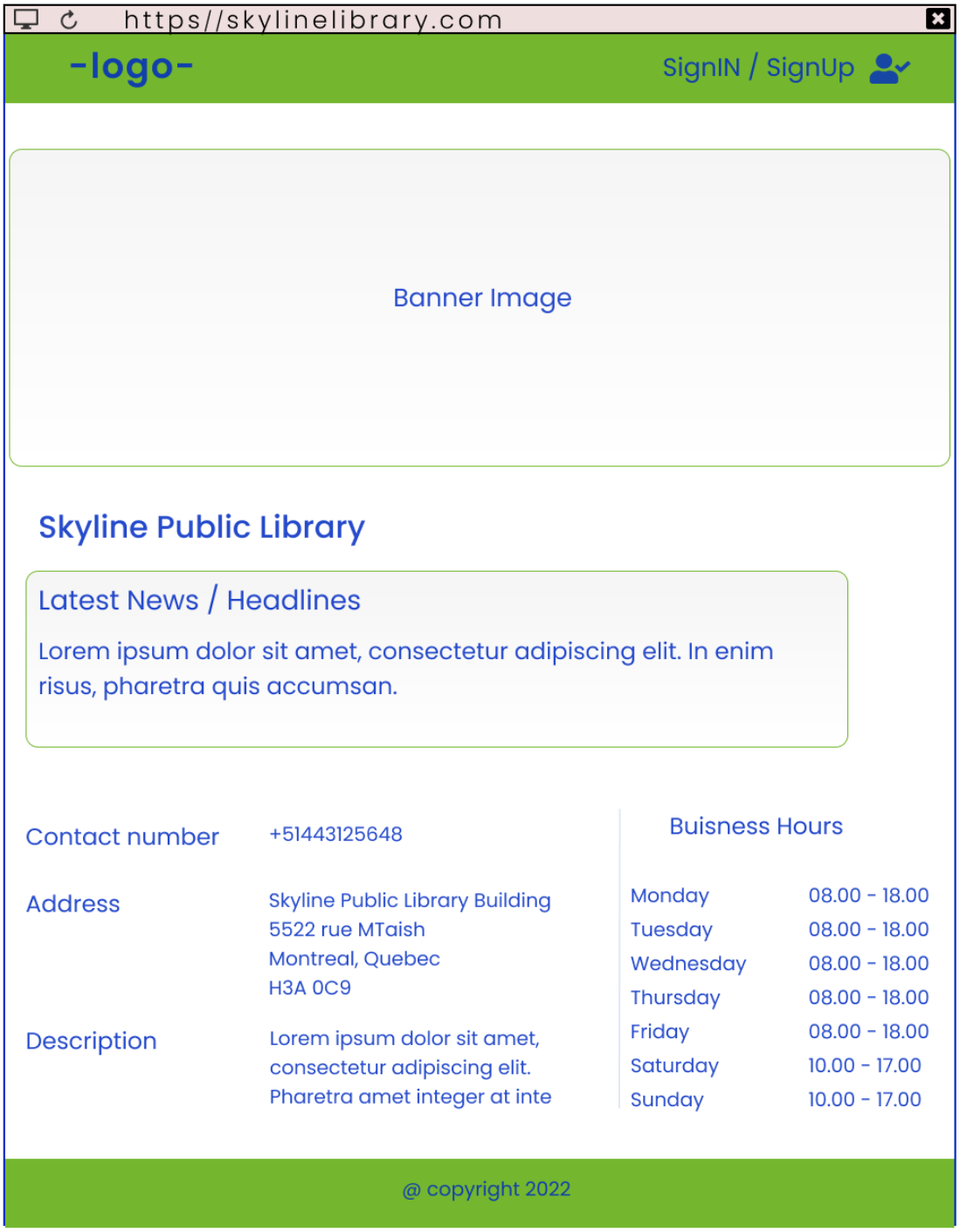
The staff will be adding new books and categories.

The admin can edit the library information fields, i.e. Address, Timings, Book return limit, fines to be Imposed, And Even display an Urgent Message on the Website.

The Admin can view, add, or block the staff members. The Admin can also view the library members as well. The Admin can also block a specific book from the list of books.

2. Design Wireframe from First time visitors Perspective.

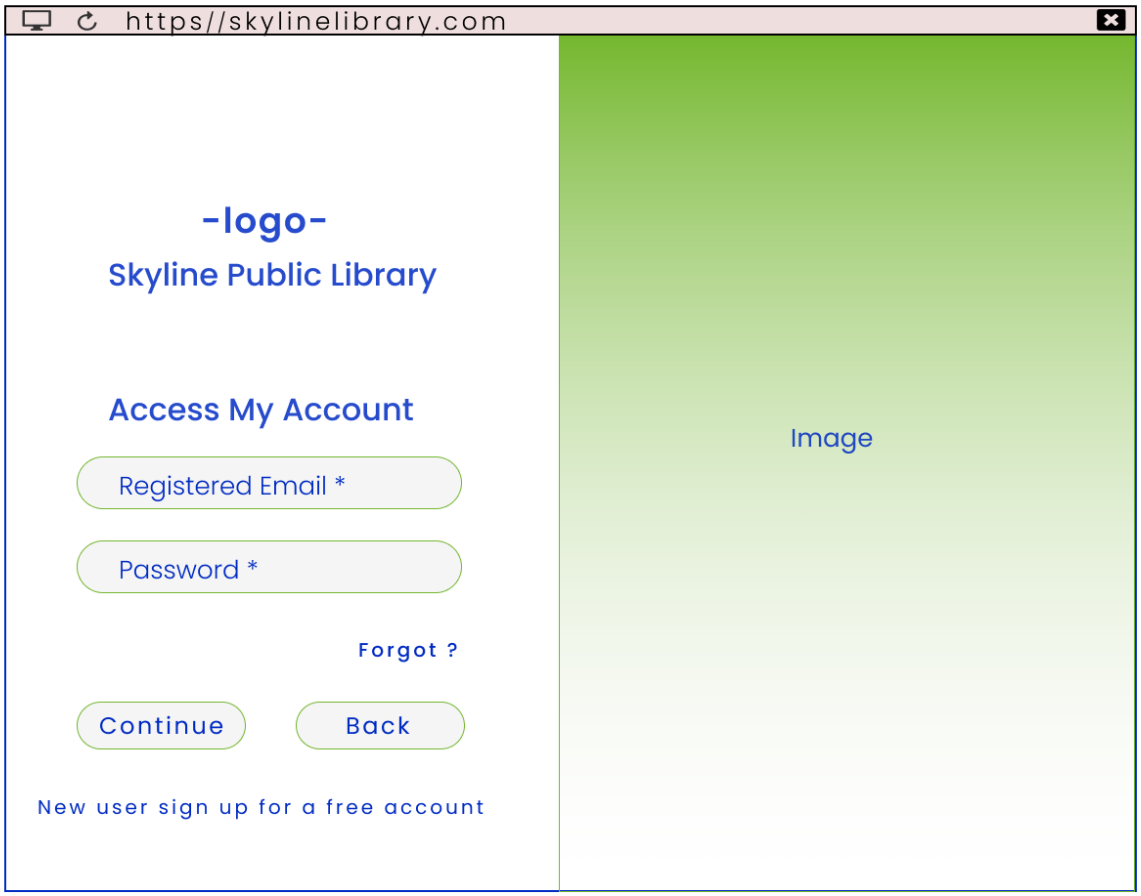
1. Dashboard Page



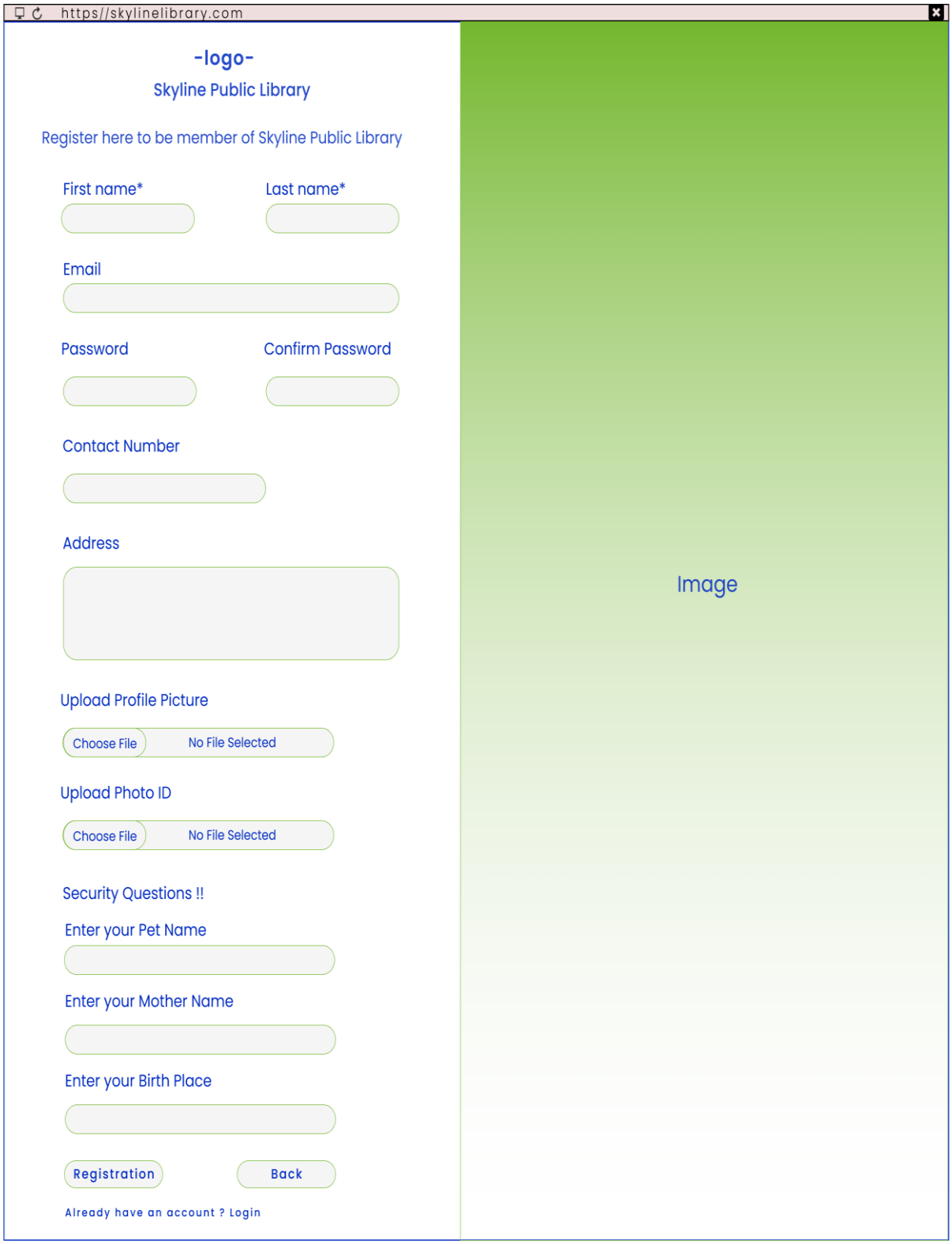
2. Select Role Page

3. Design Wireframe from User Perspective.

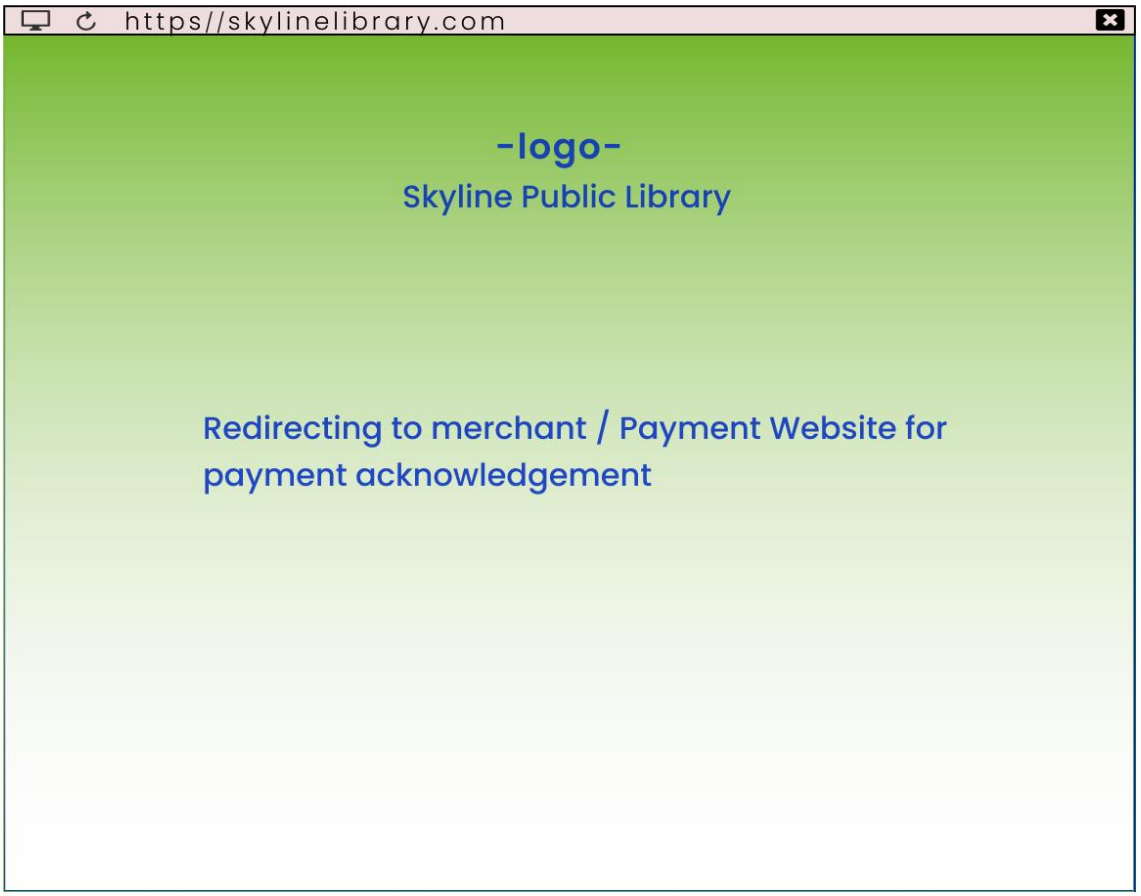
1. Log In page.



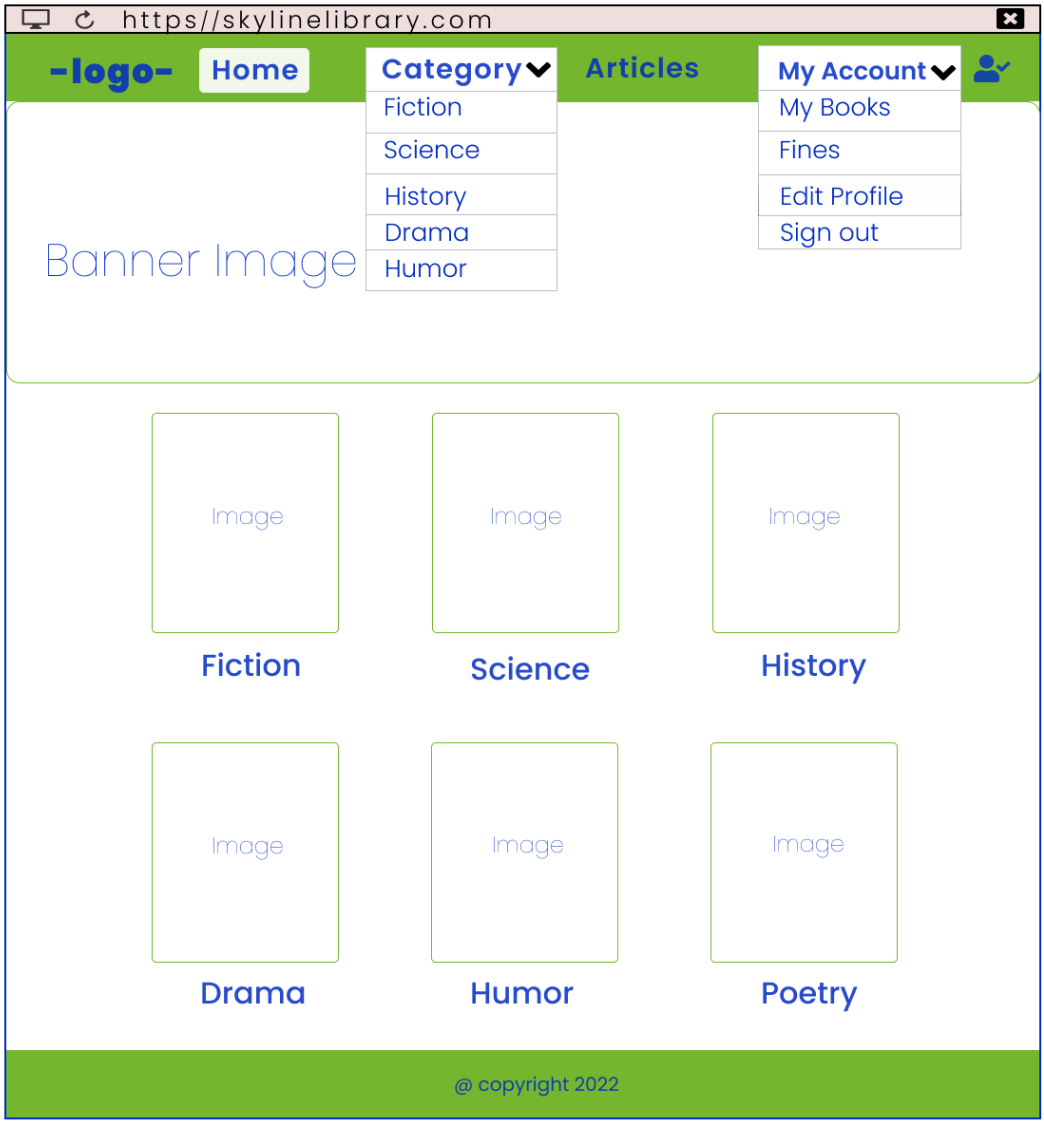
2. Registration.



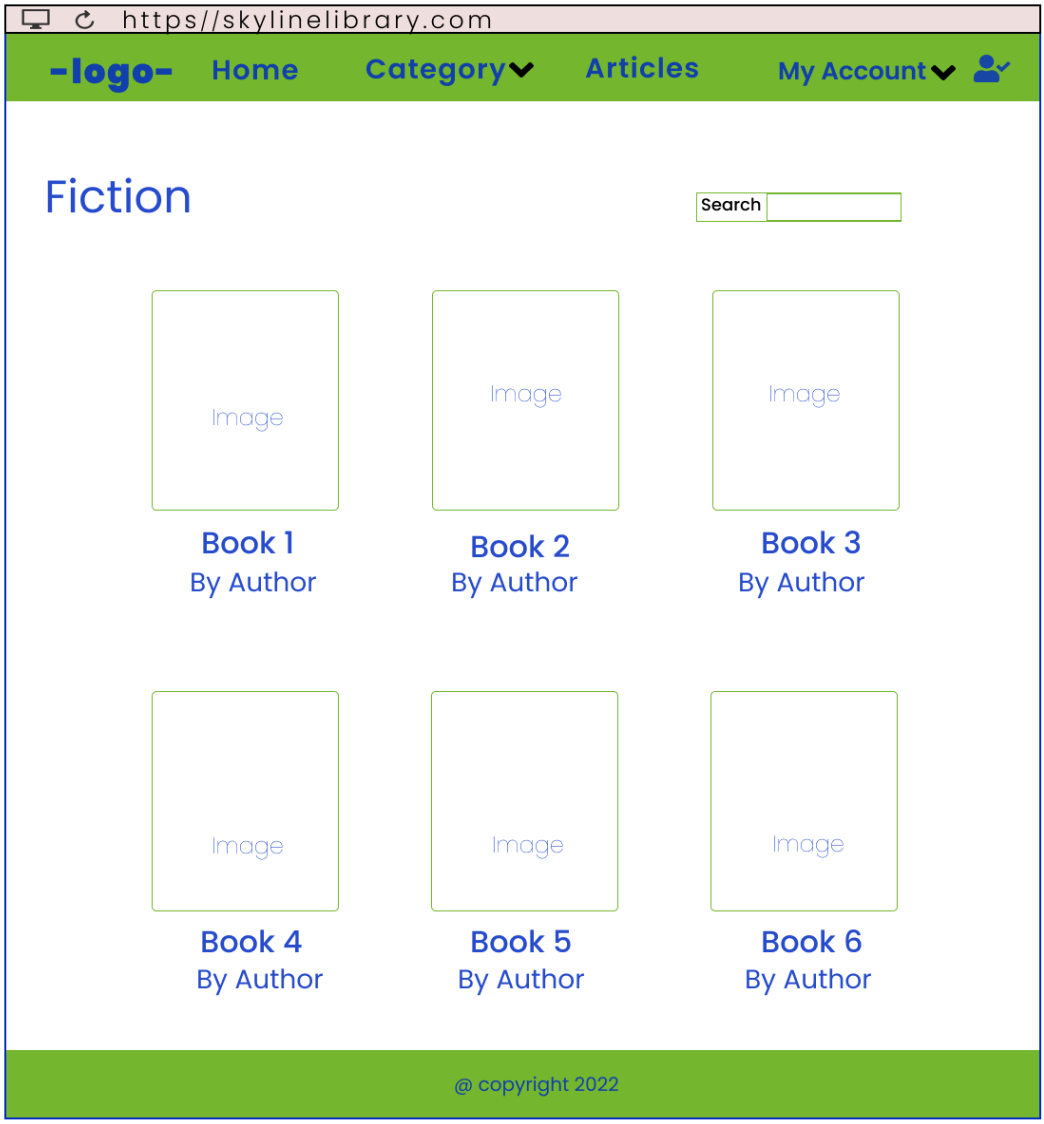
3. Payment Authorisation Page / After receiving Confirmation Email.



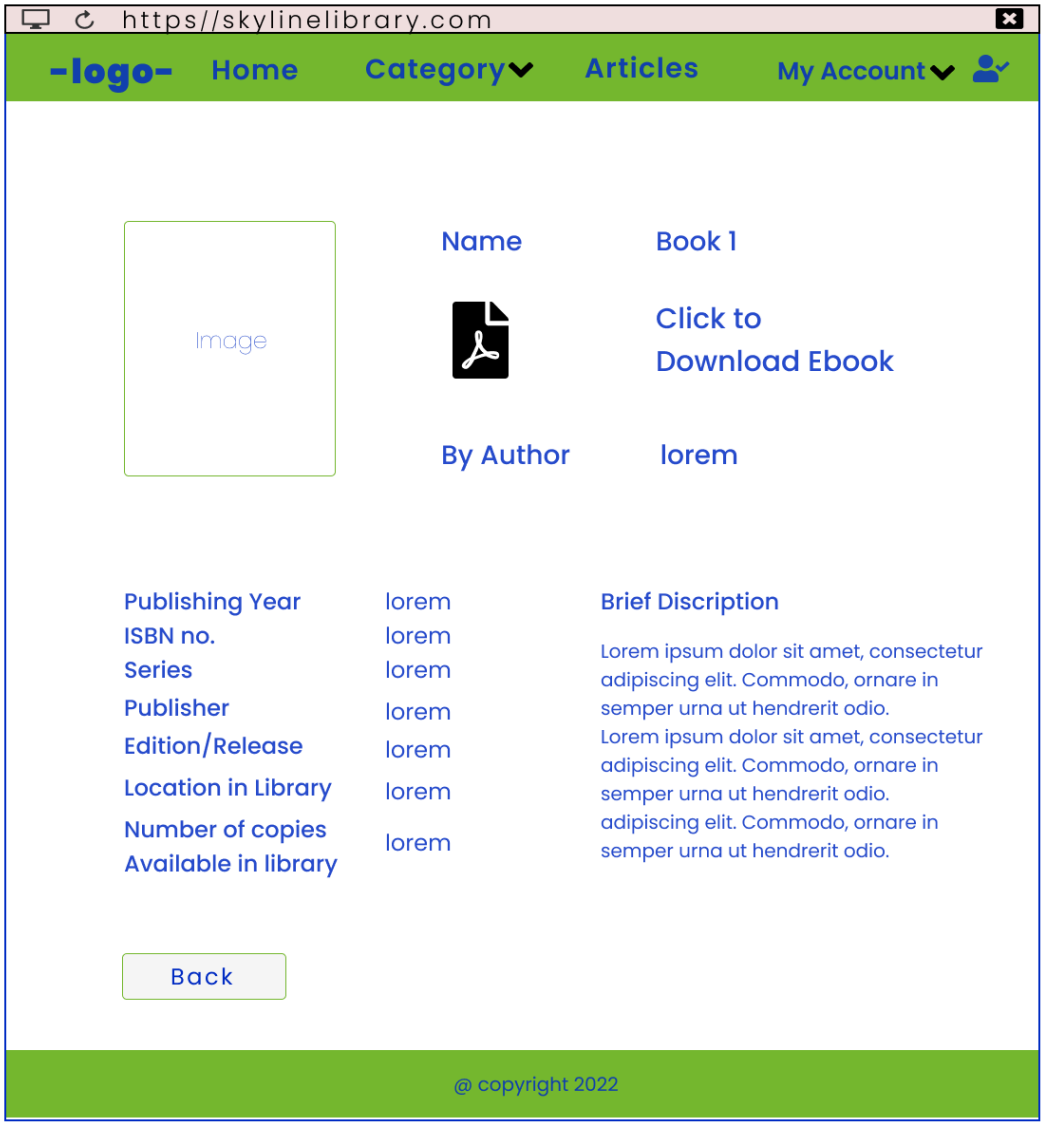
4. Home Page After successful login.



5. Select a book page



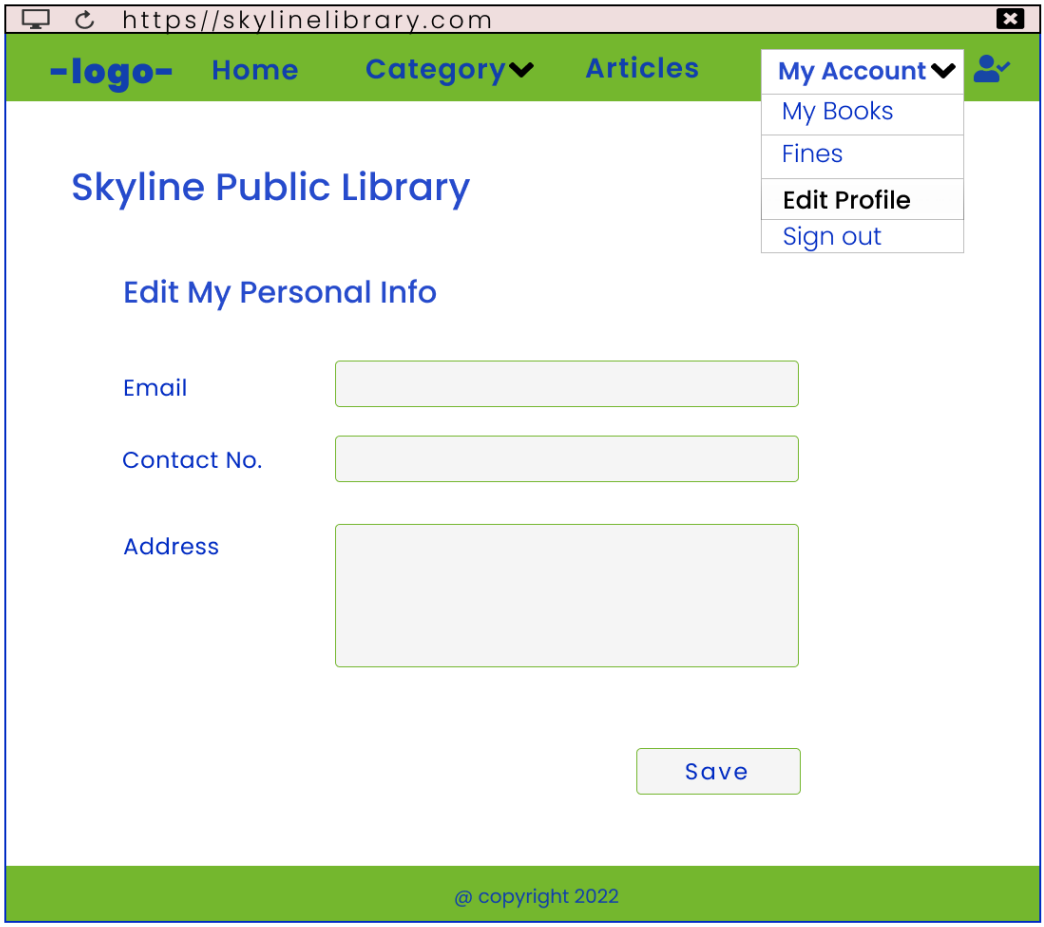
6. More details about the selected book page .



7. List of all rented books by user.

8. Page showing how much fine is to pay by user .

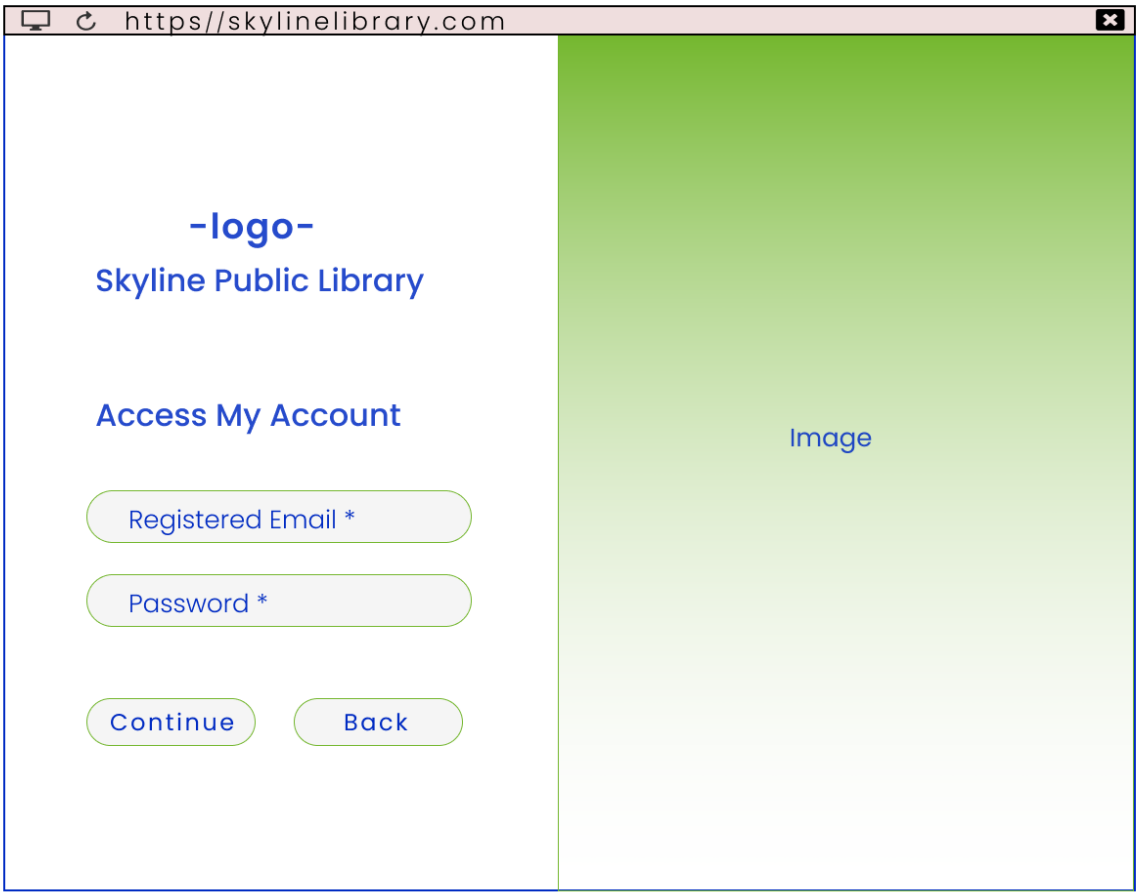
9. Edit personal info page .



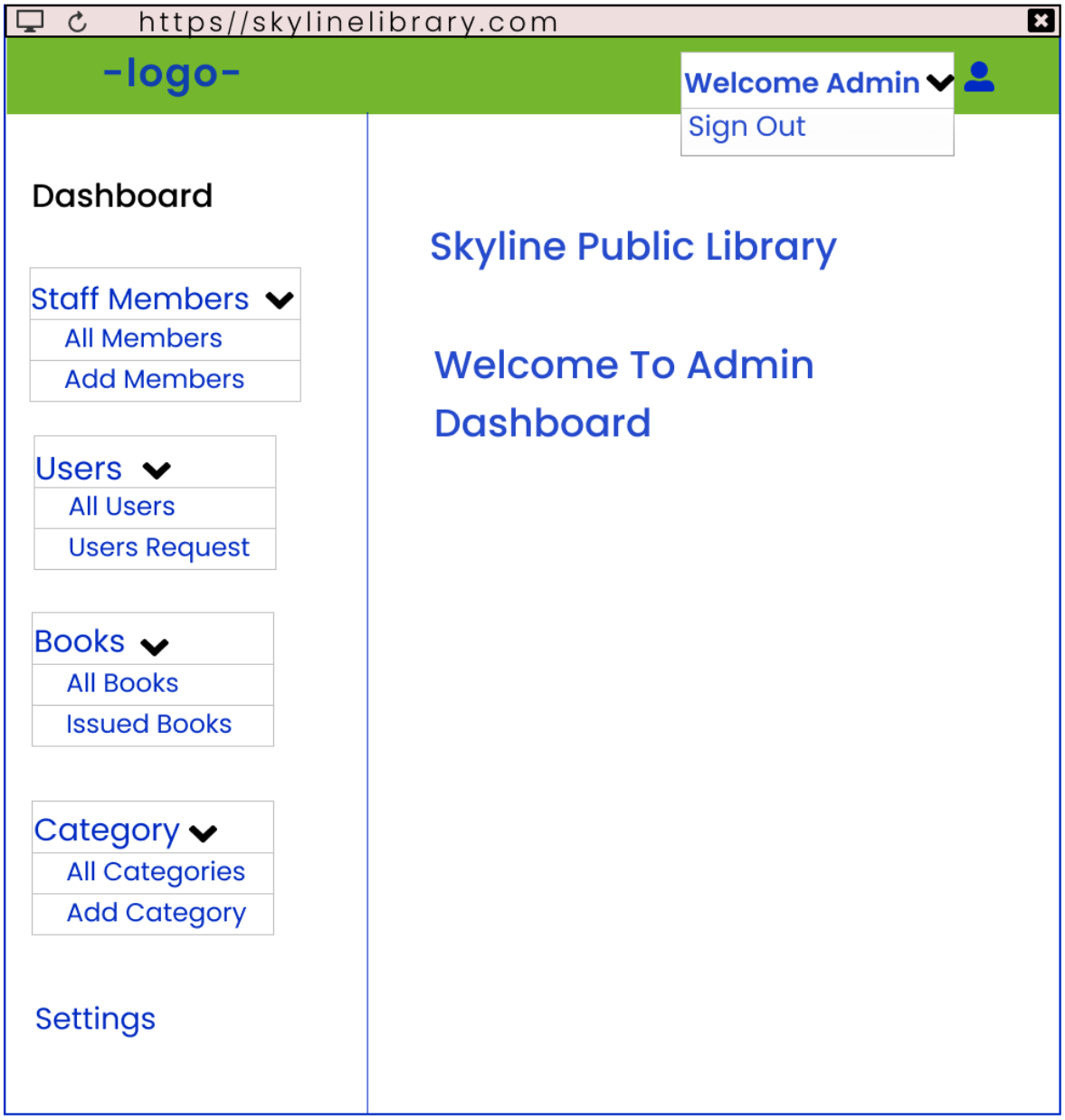
10. Access online resources page .

4. Design Wireframe from Admin Perspective.

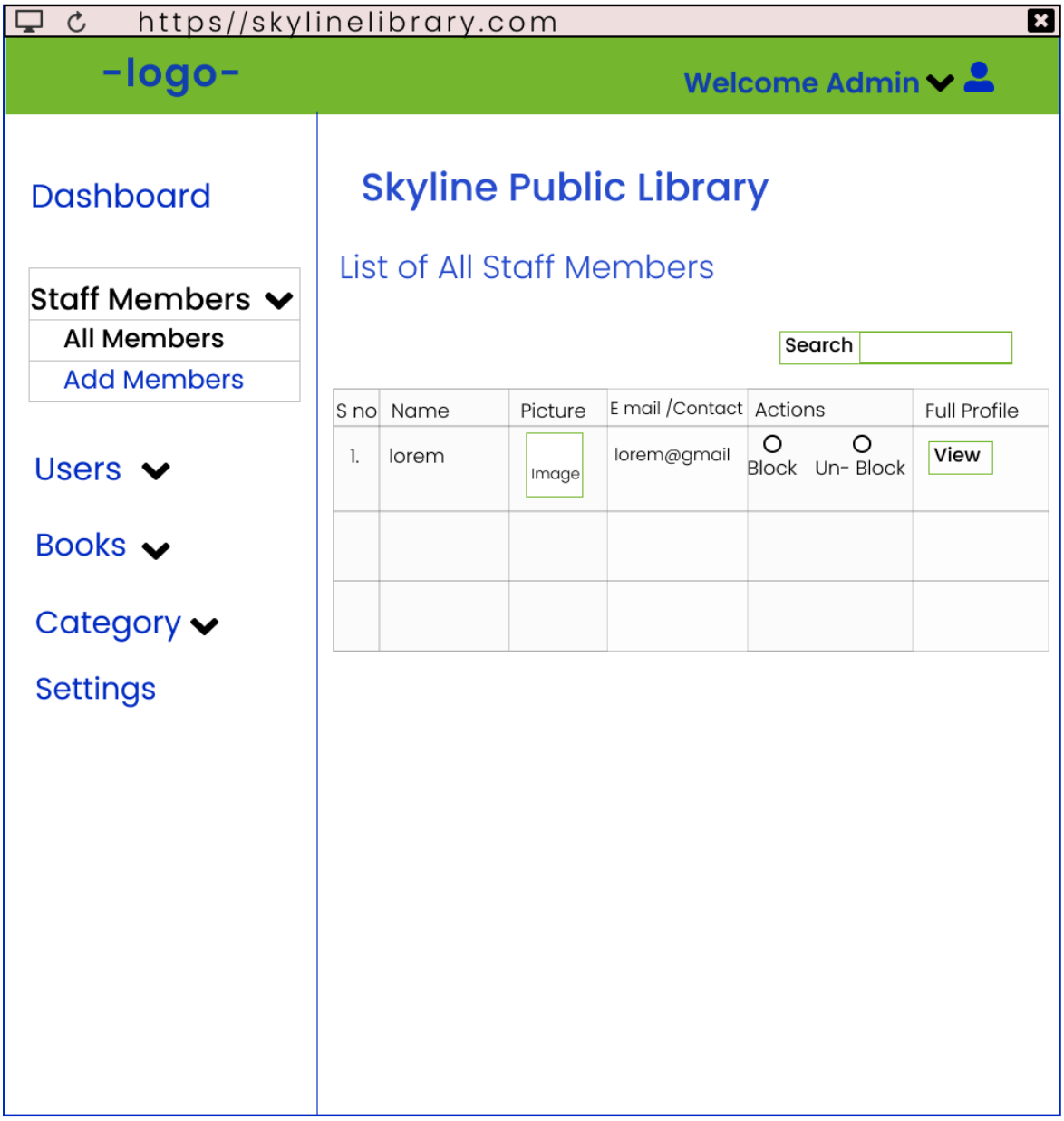
1. Login page Admin .



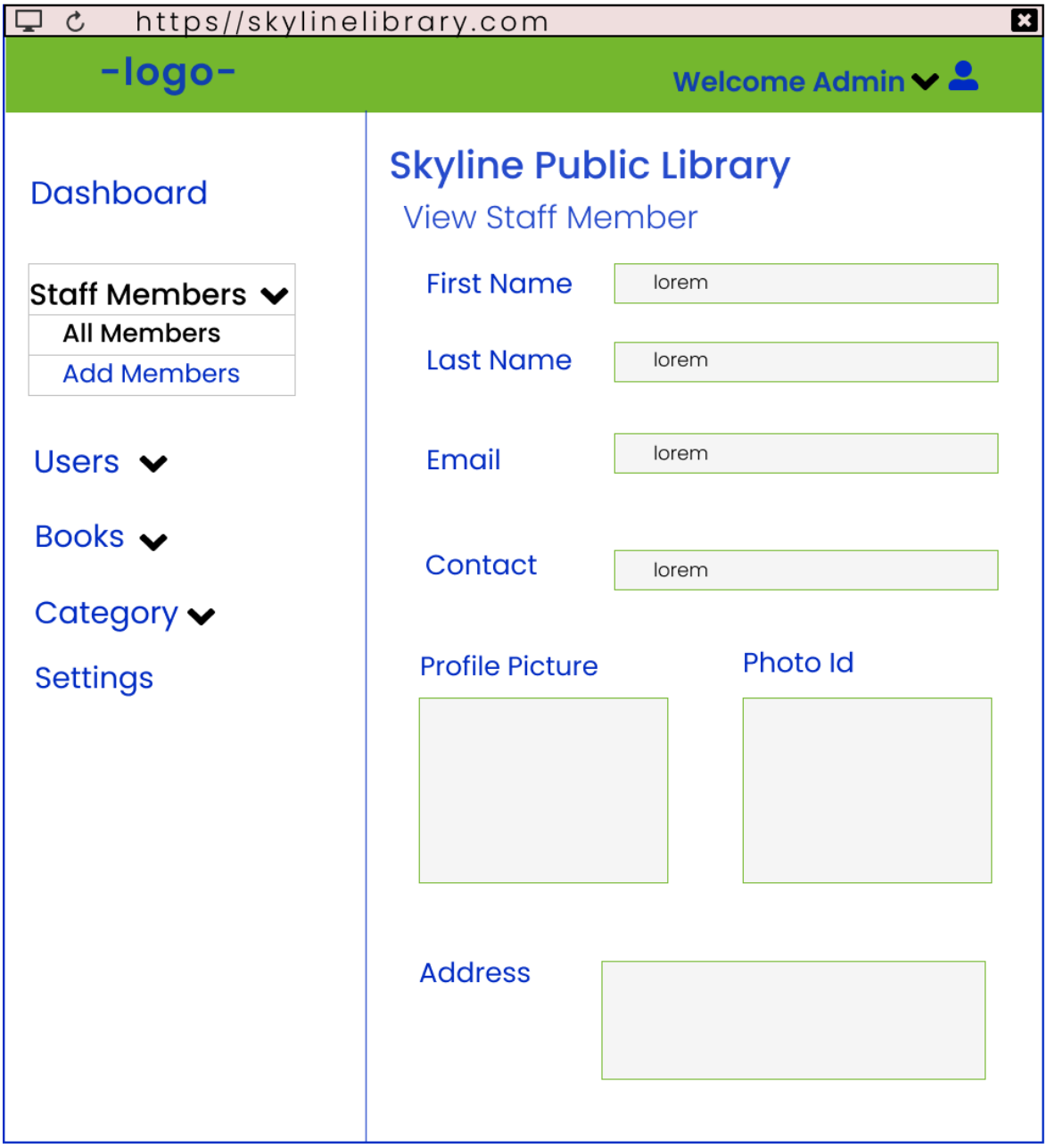
2. Admin Dashboard Page .



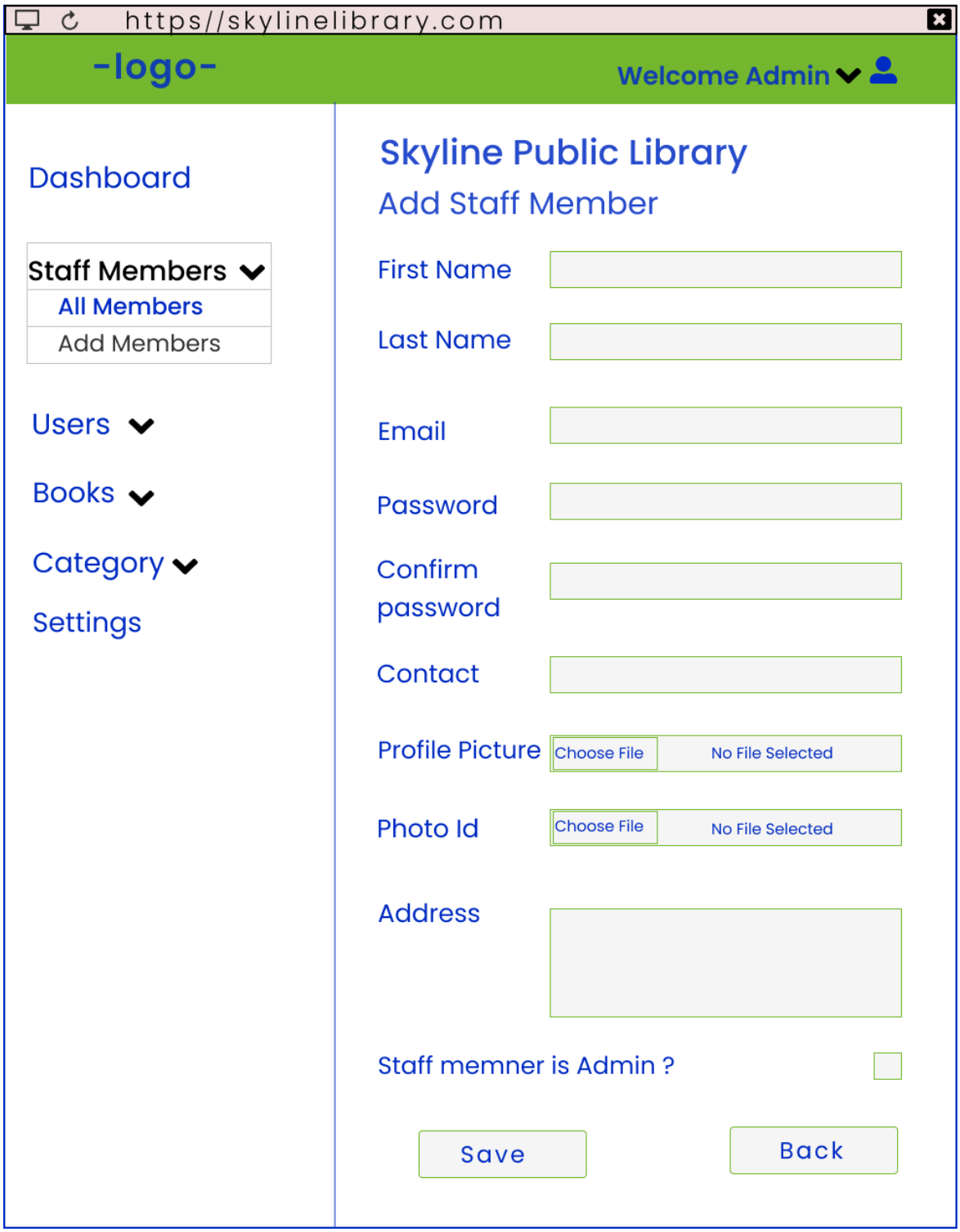
3. List of all Staff Members Page .



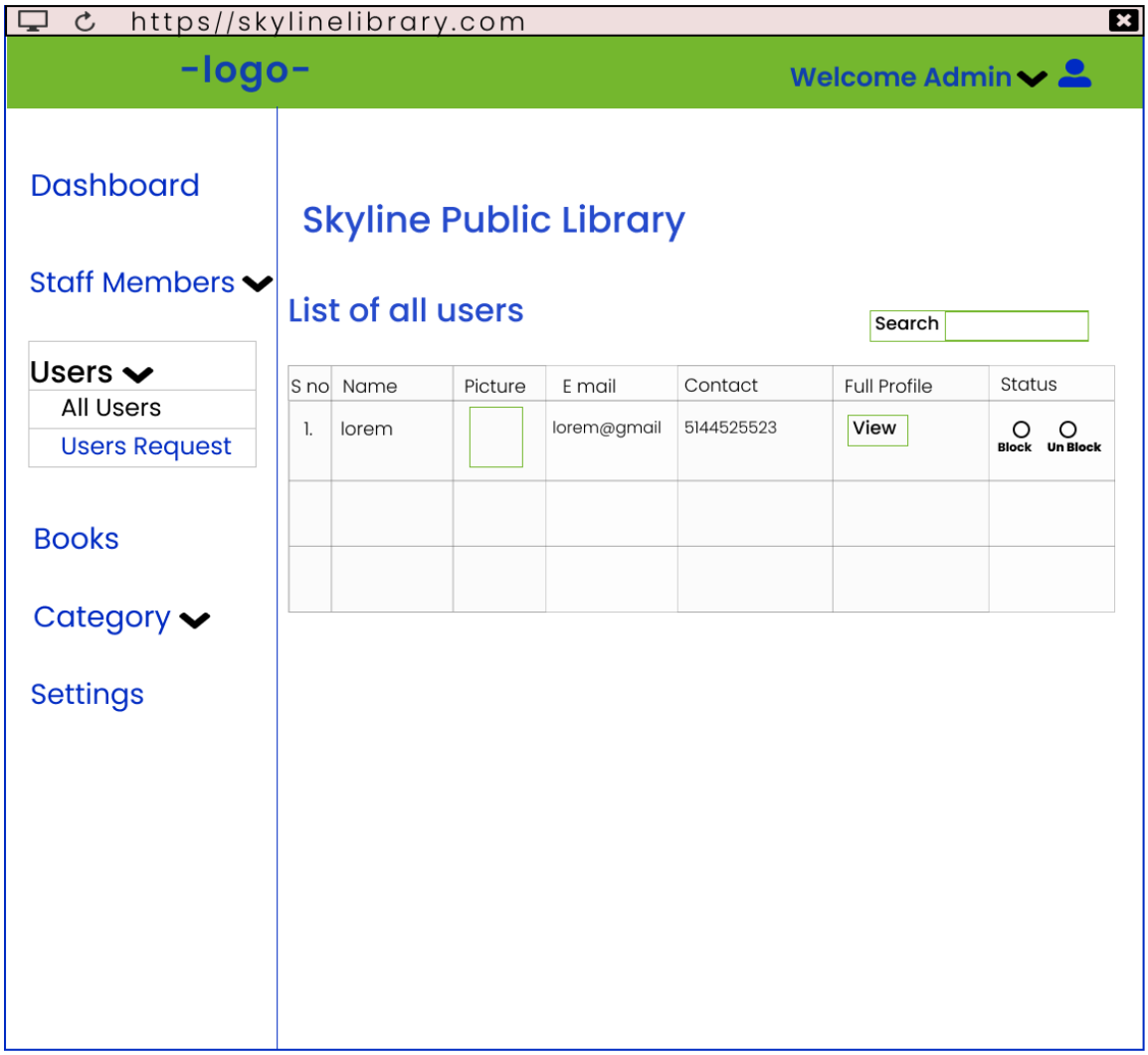
4. View a Staff Members Page .



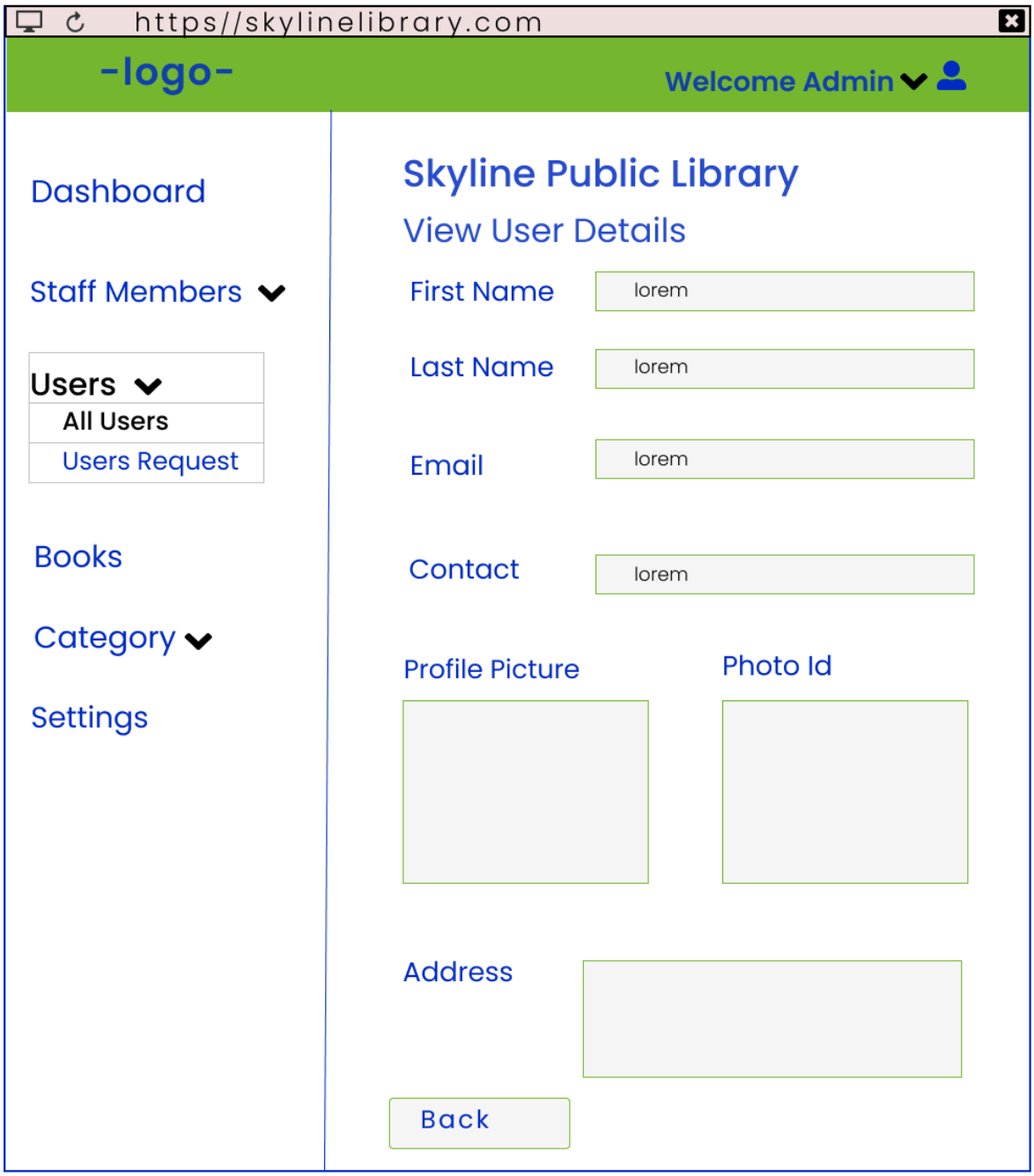
5. Add a Staff Members Page .



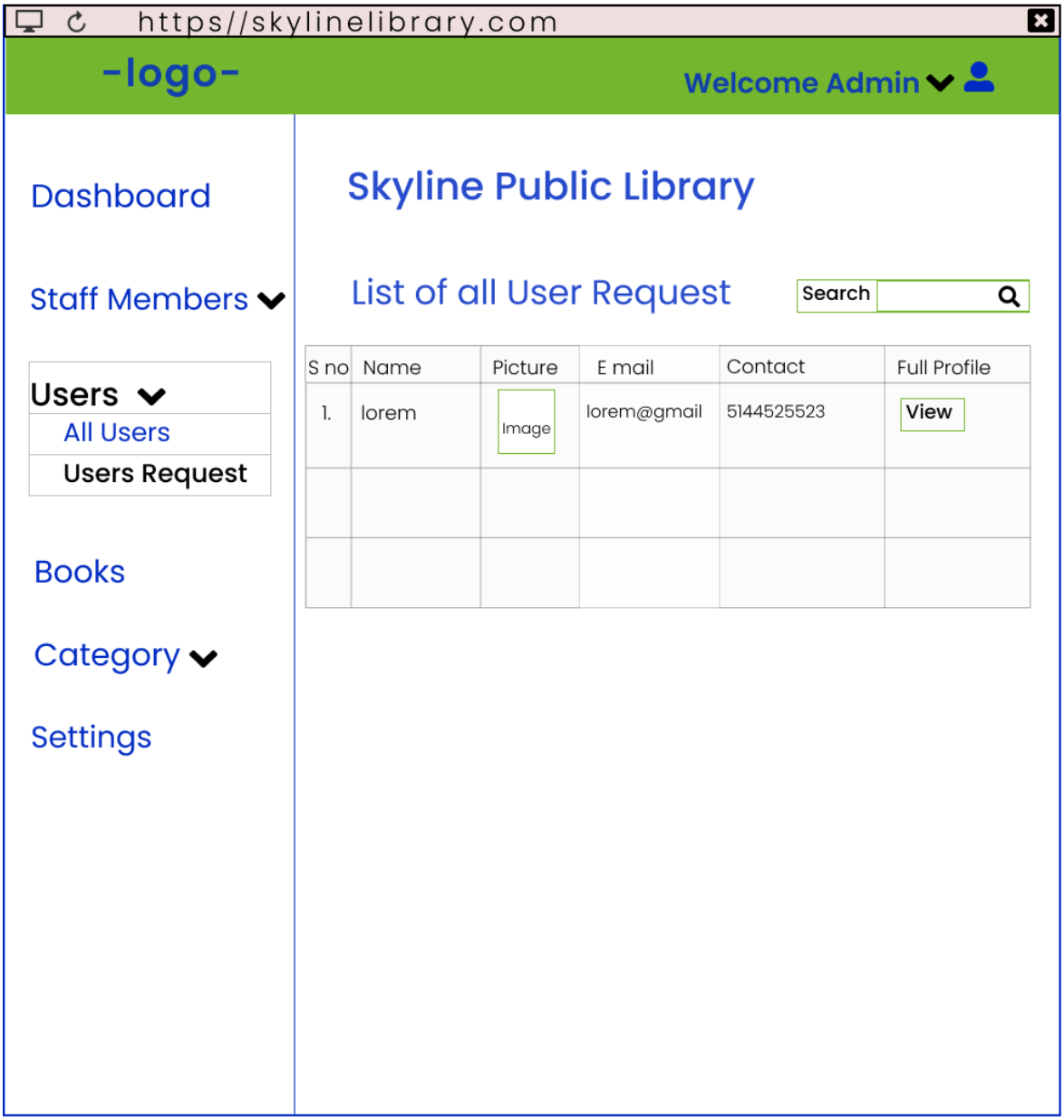
6. List of All Users Page .



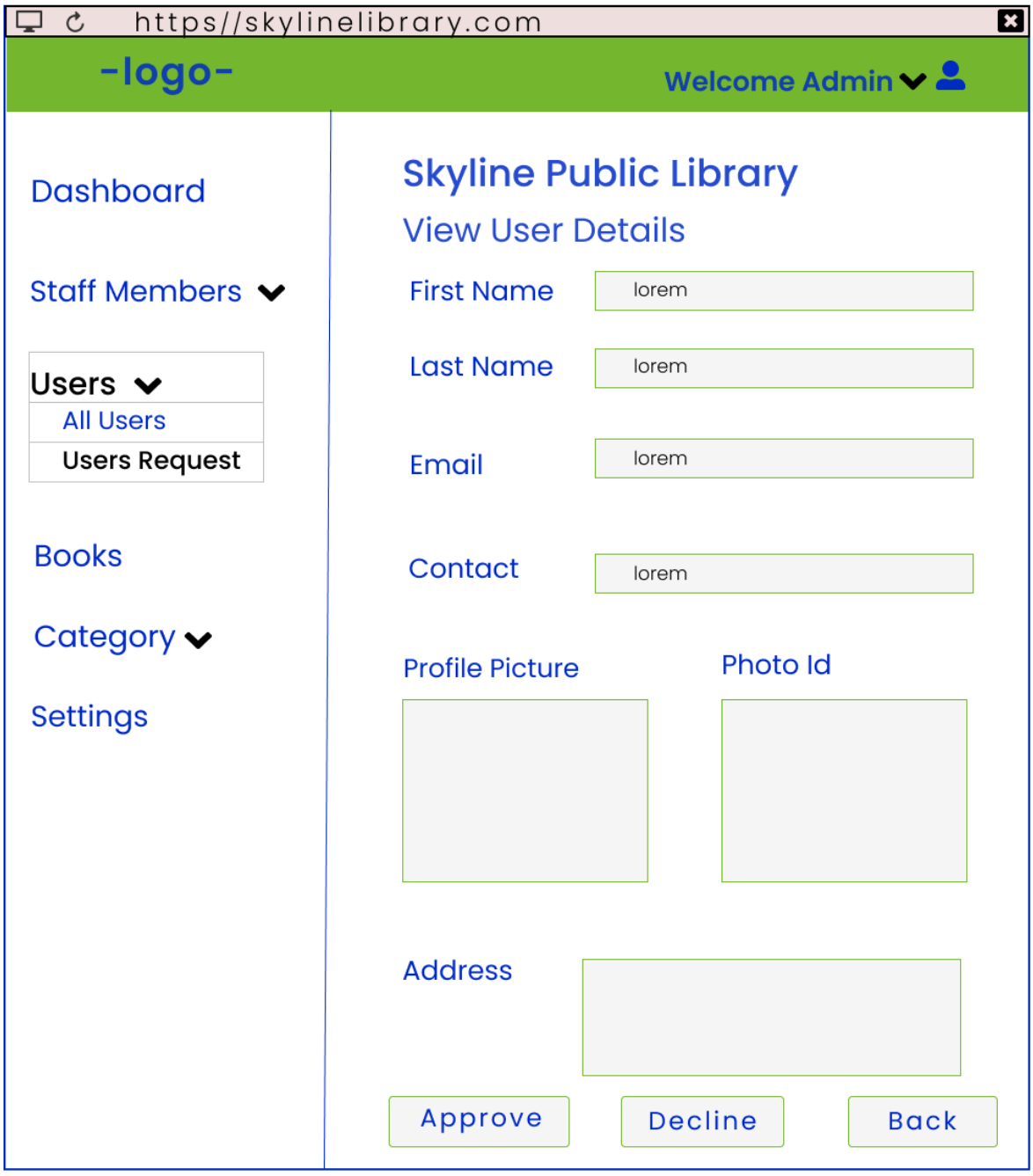
7. View a User Details Page .



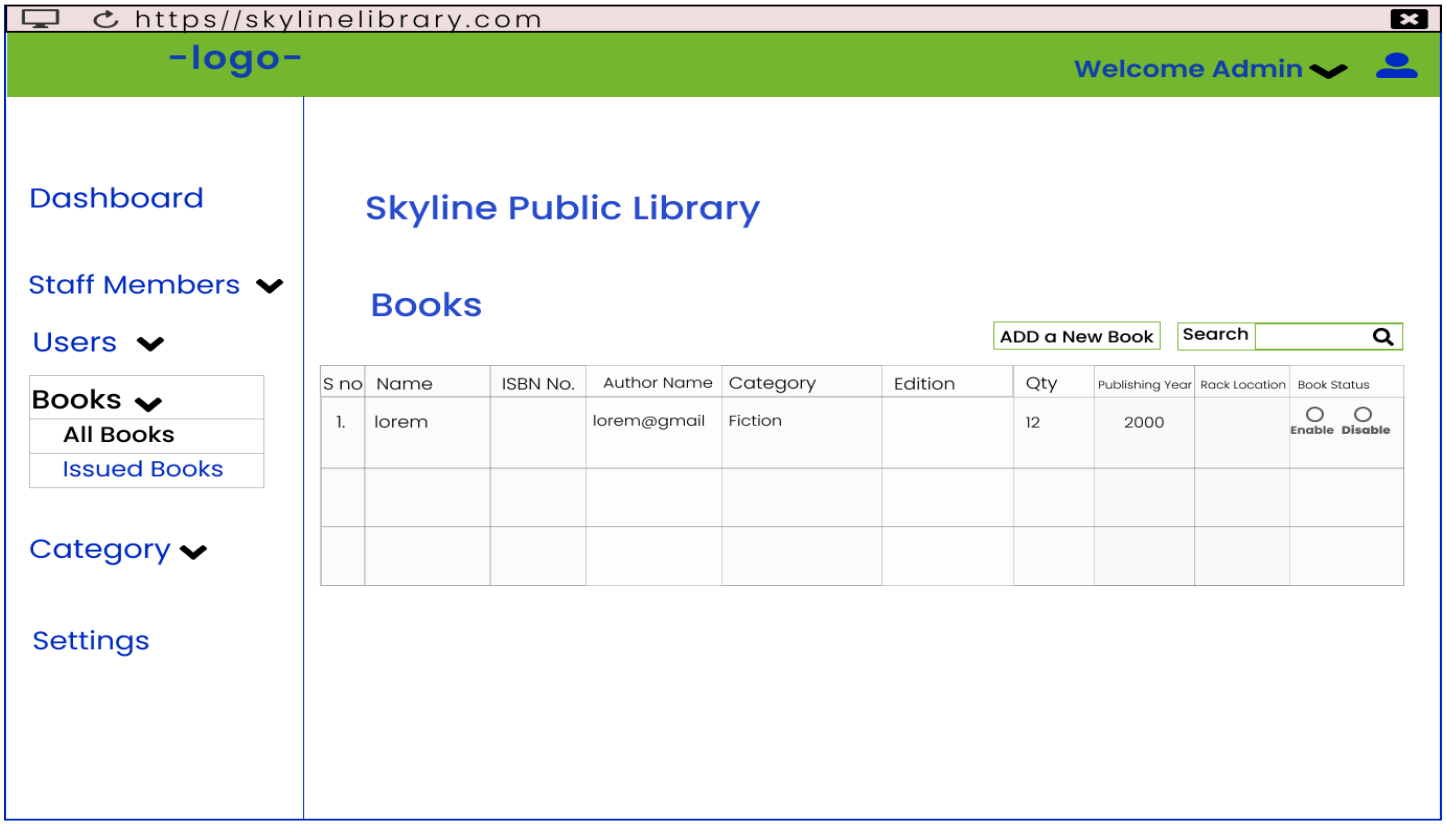
8. User Request Page .



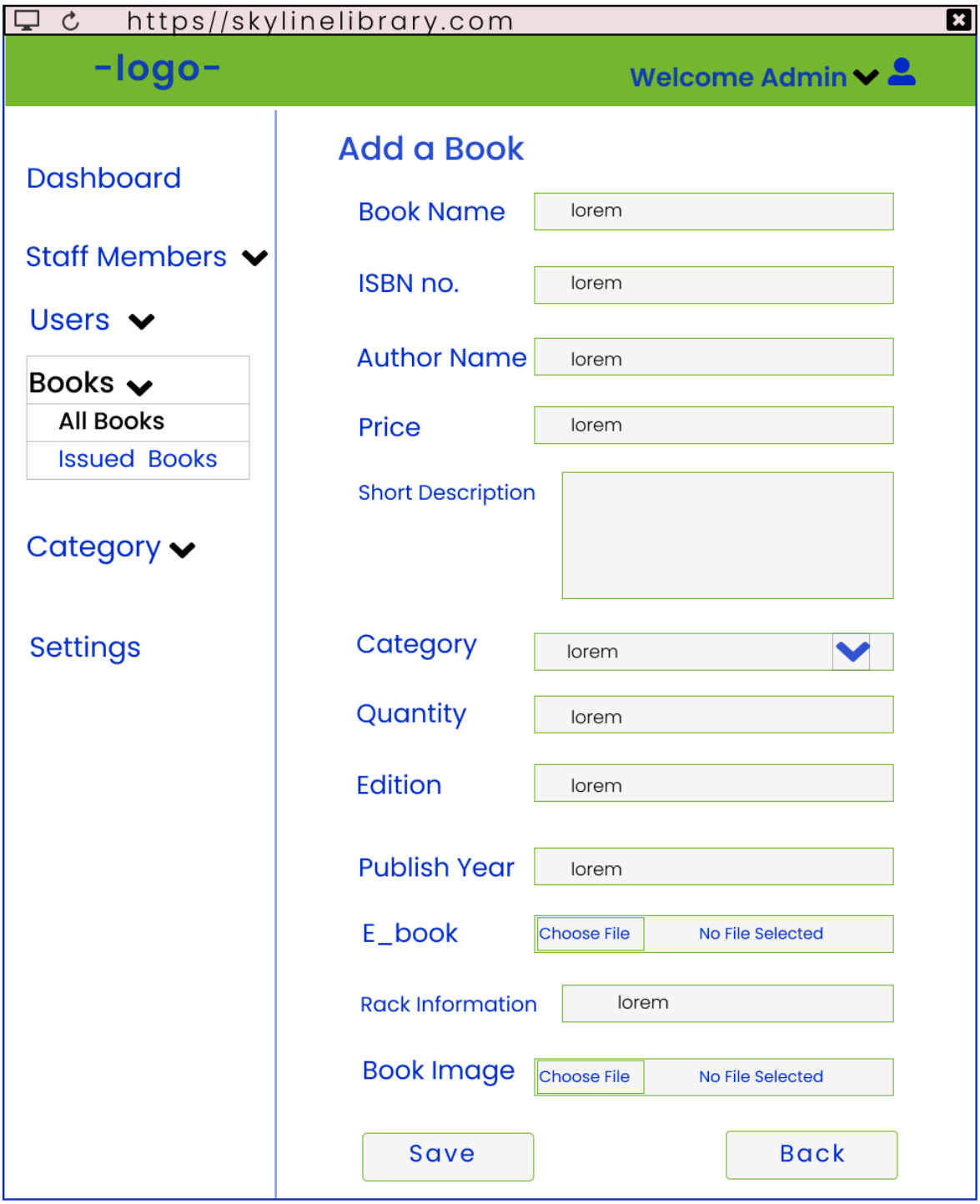
9. To Approve/Disapprove User Requests page.



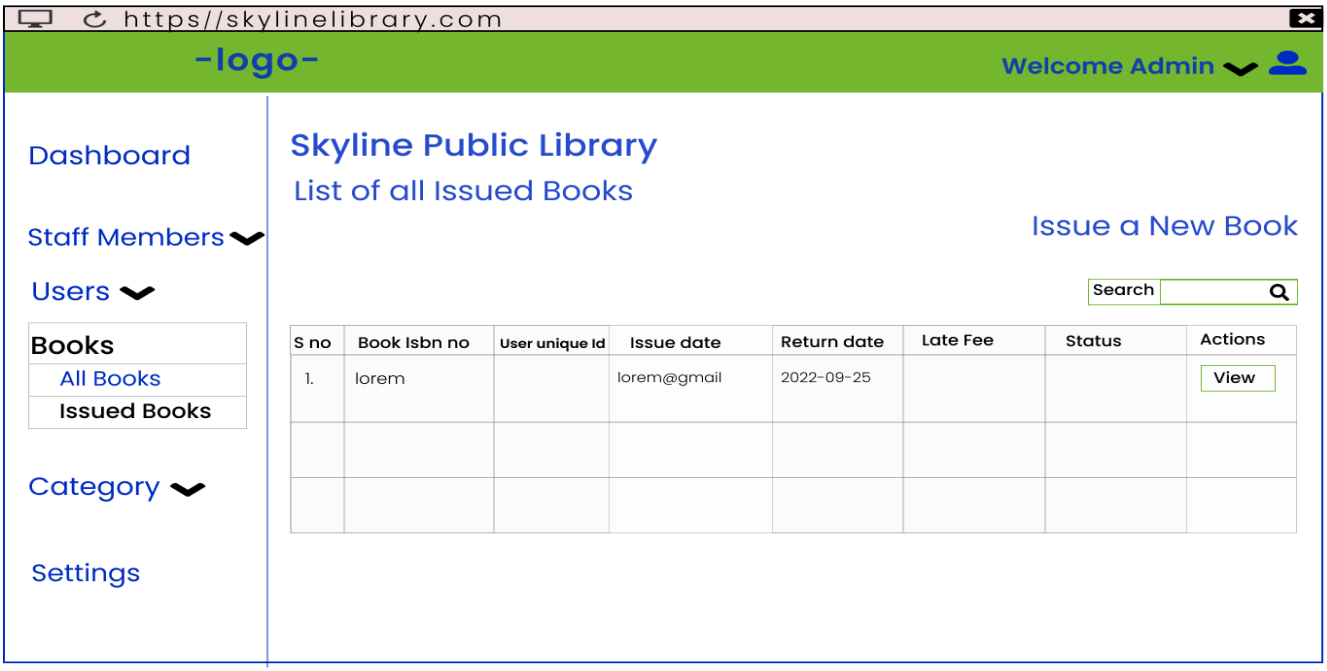
10. All books page.



11. Add new book page.



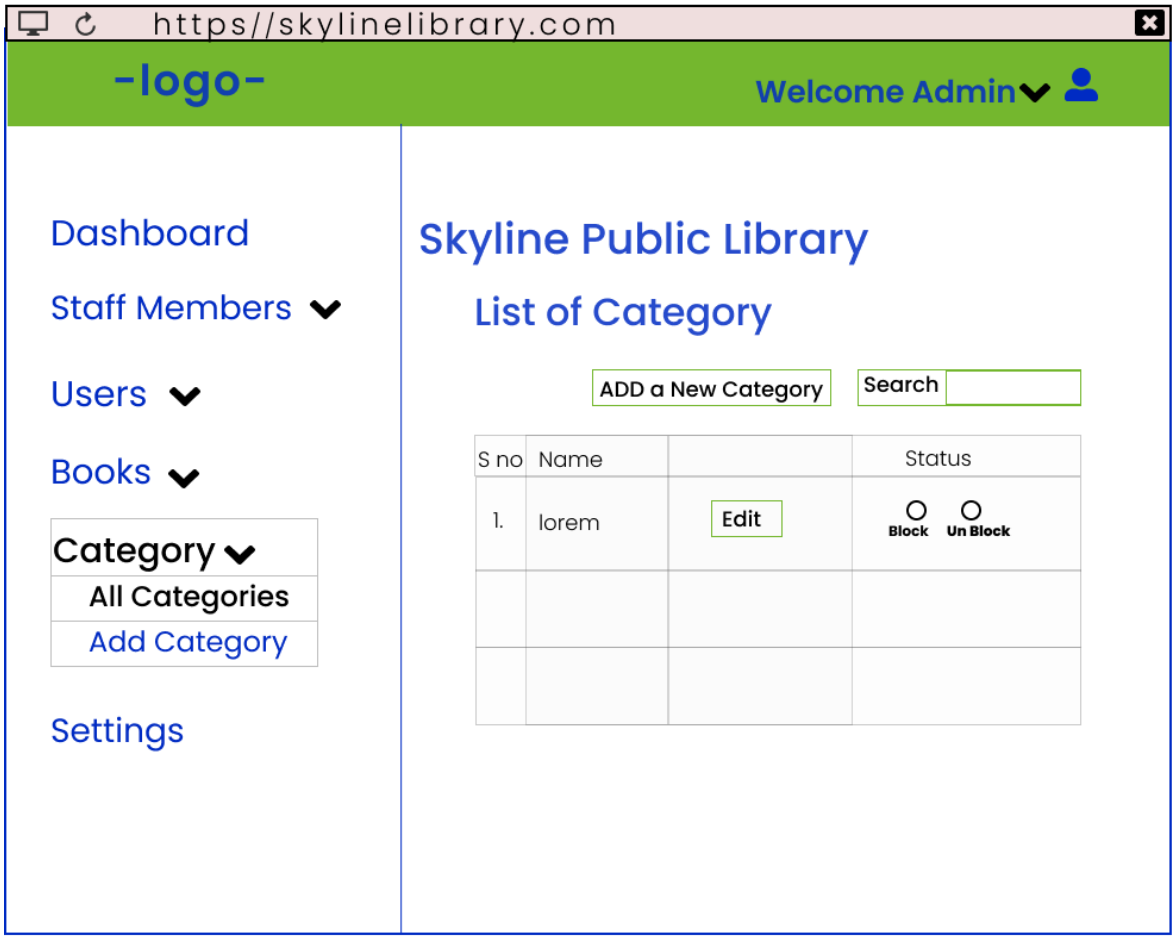
12. Issued books page.



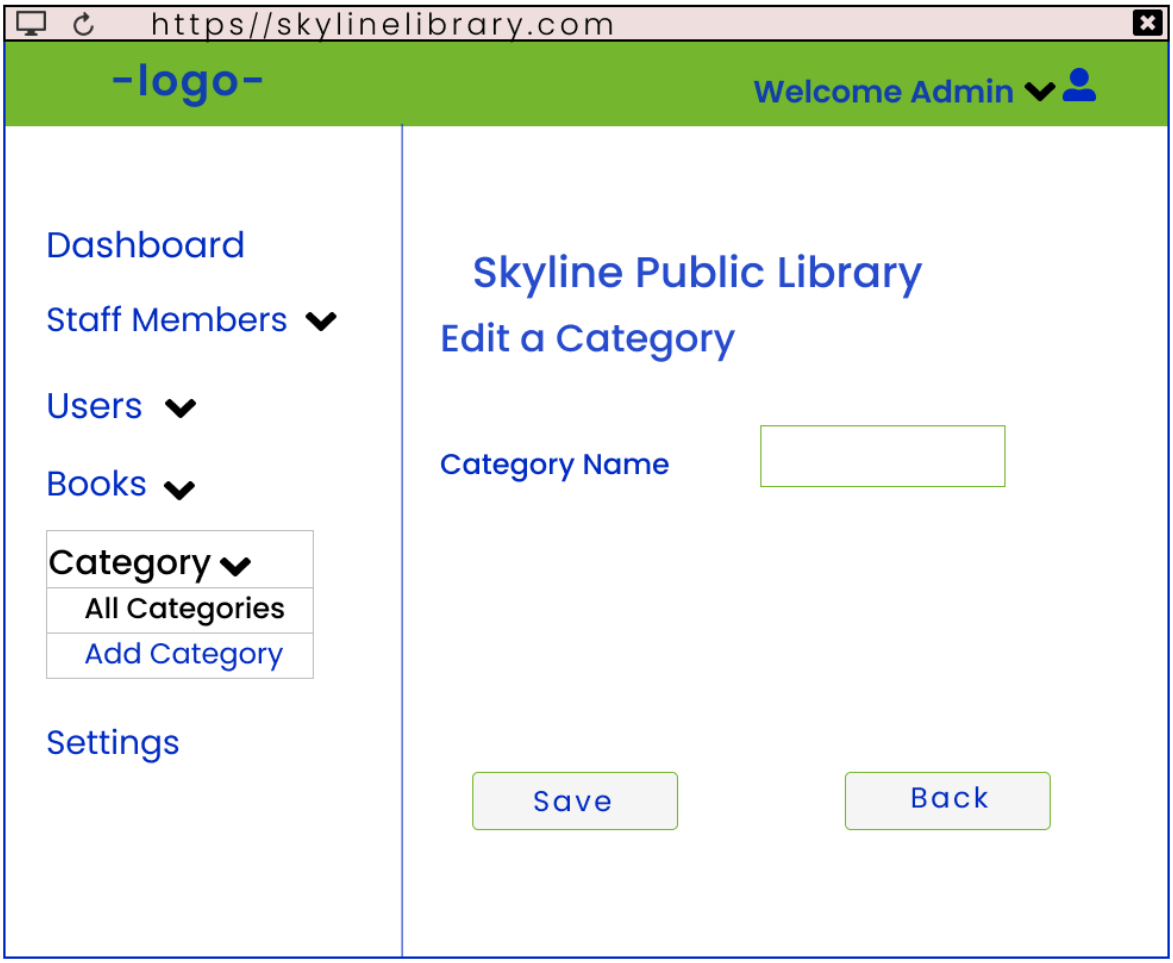
13. Viewing Details of Issued books page / To check booked as Return.

14. Admin issue New Book page.

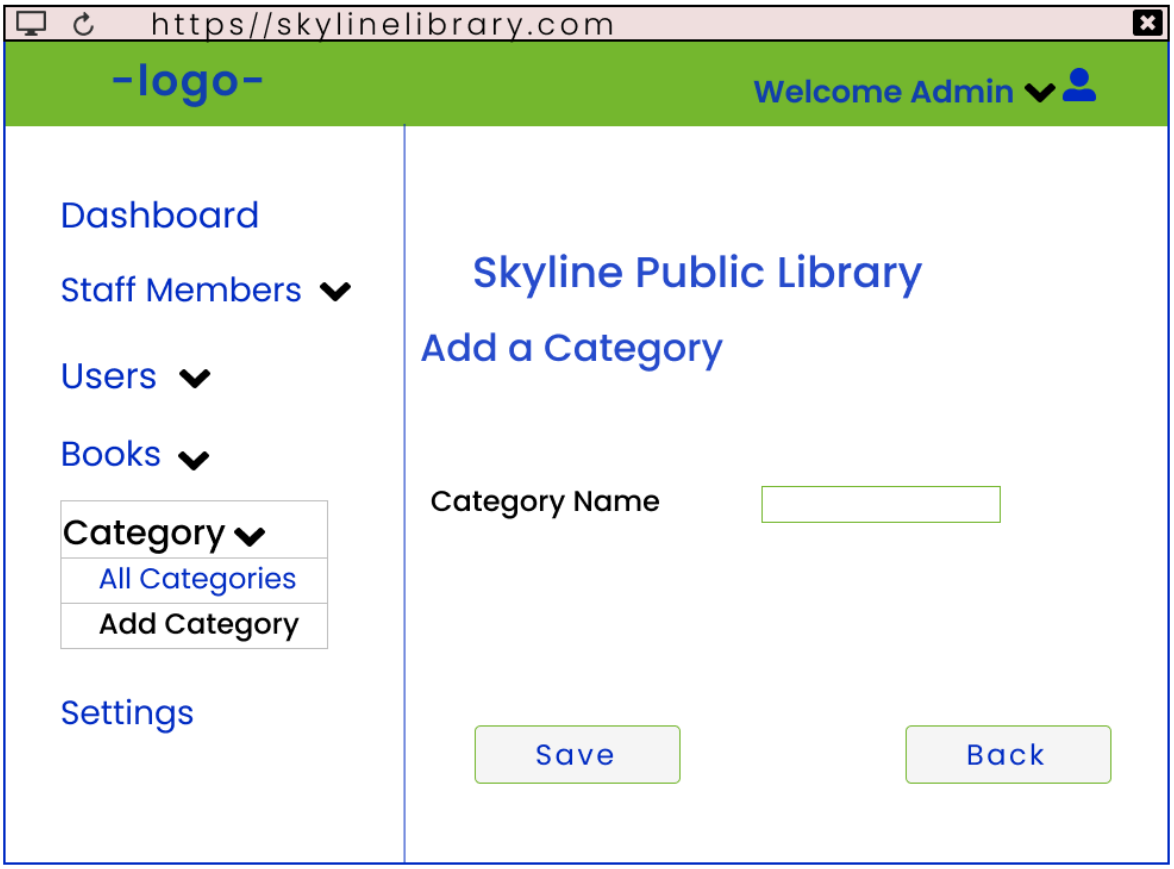
15. List of all Categories page.



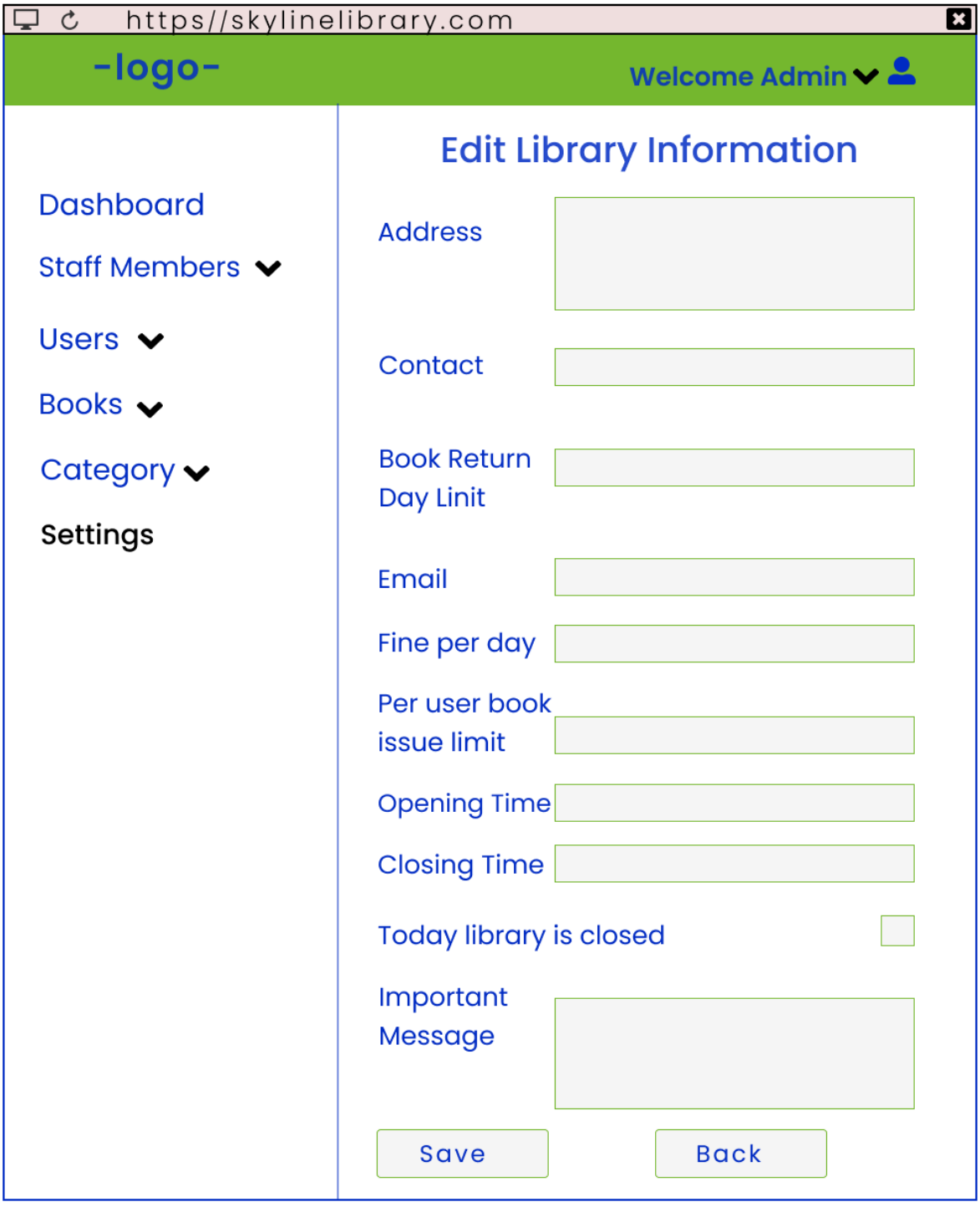
16. Edit a Category page.



17. Add a Category page.

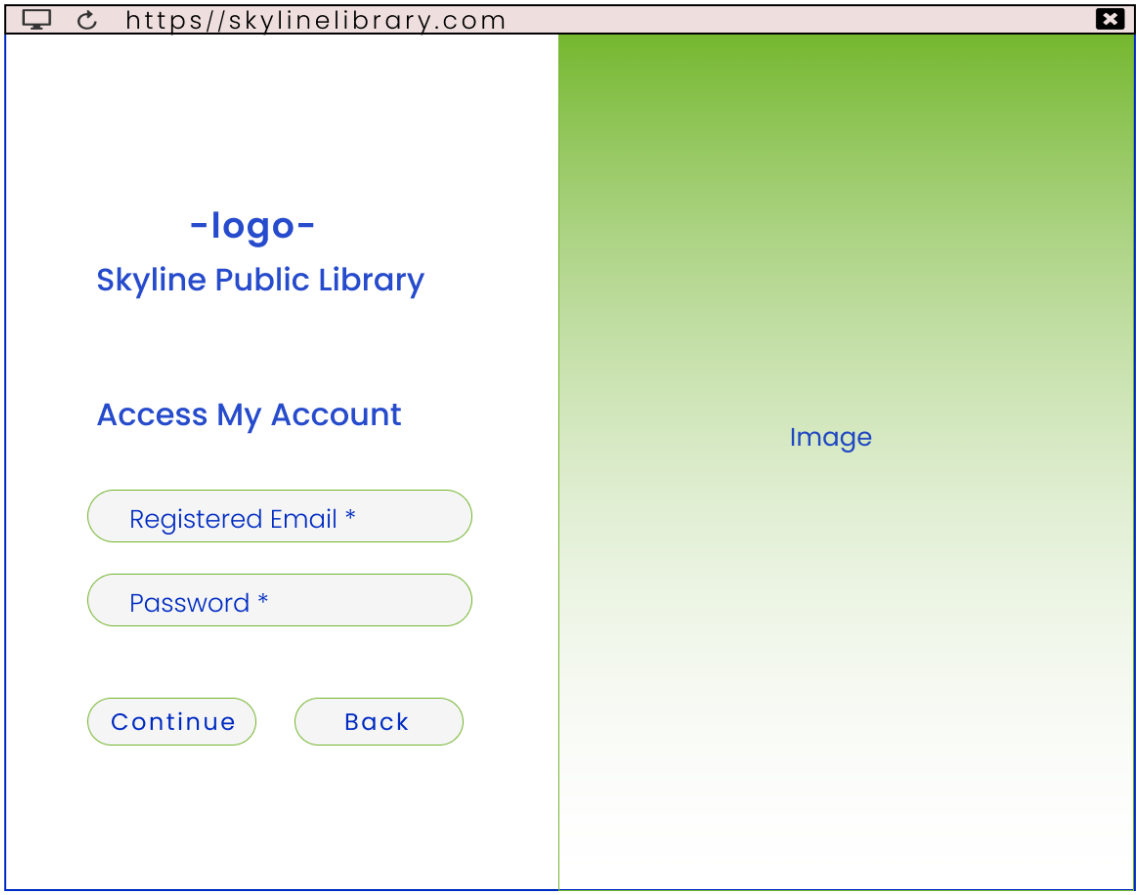


18. Edit Library Info. / Settings page.

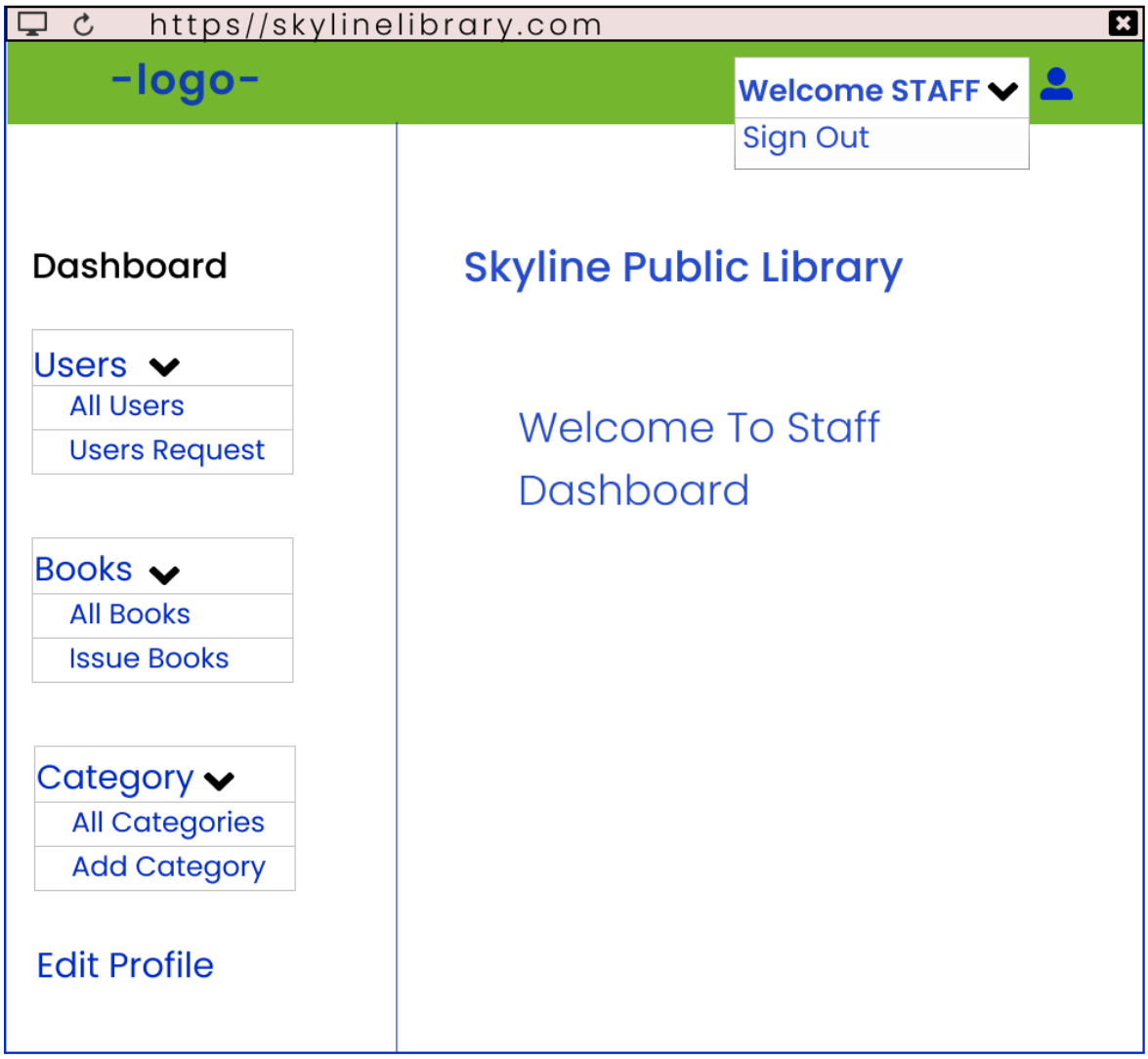


5. Design Wireframe from Staff Perspective.

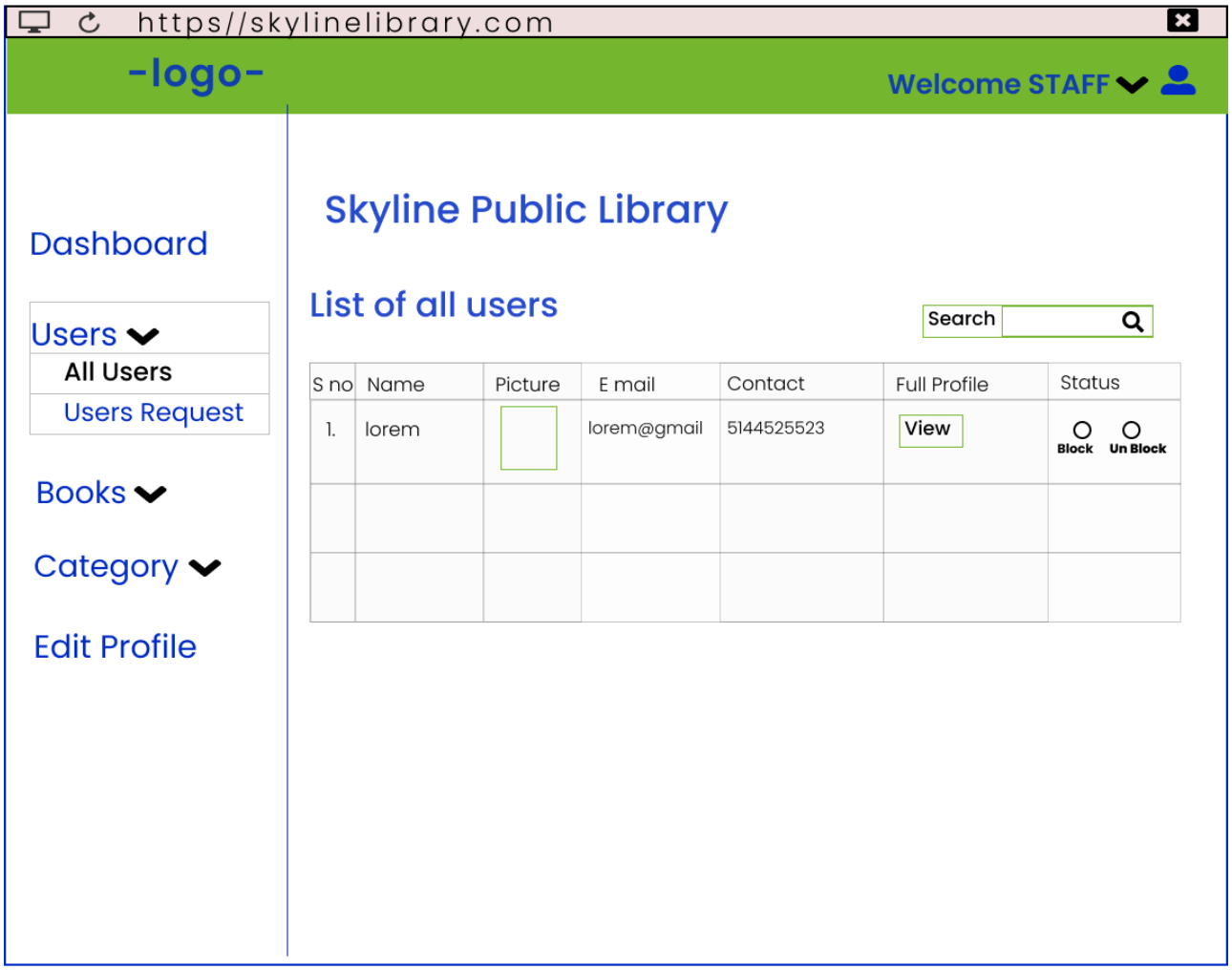
1. Login page Staff .



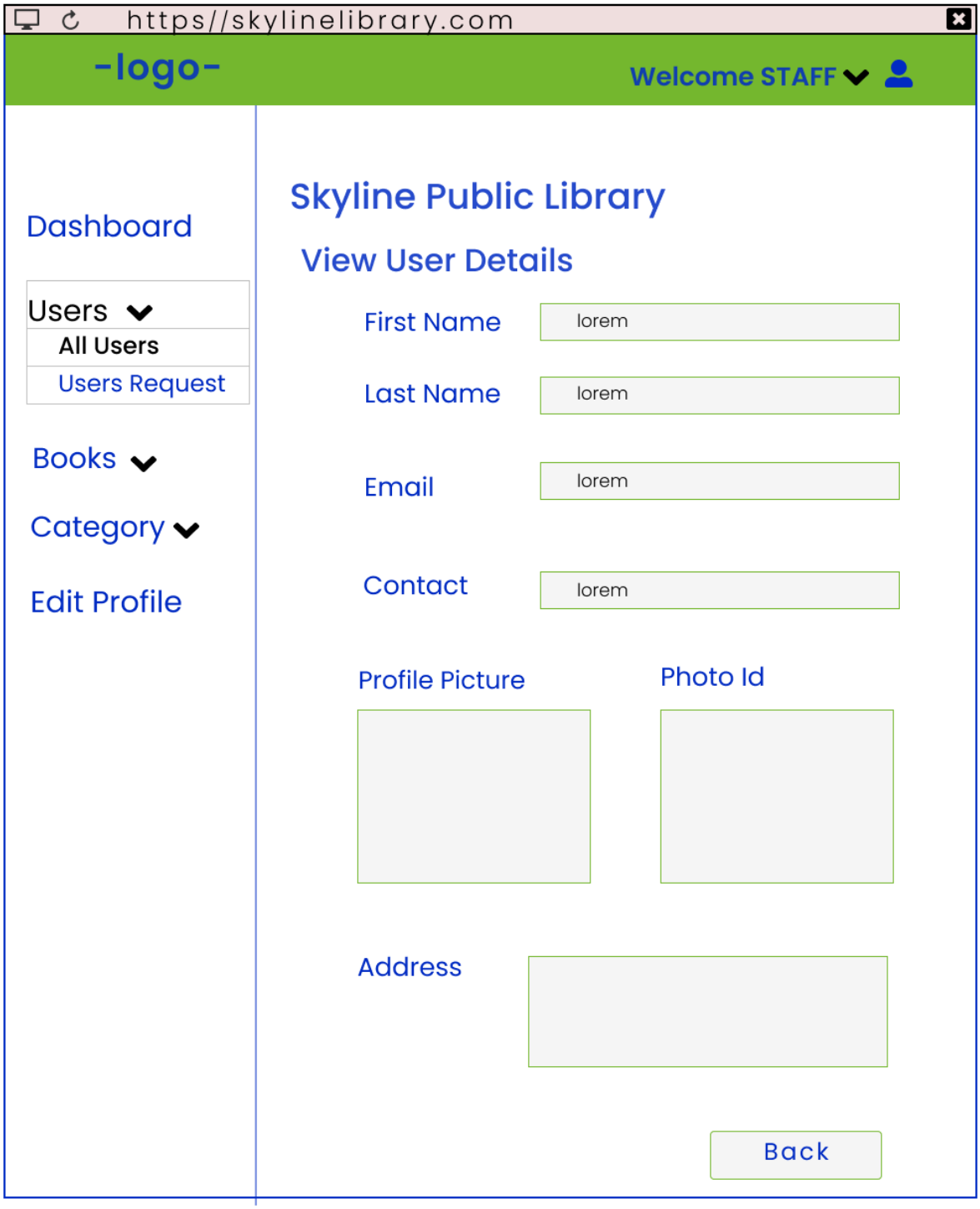
2. Staff Dashboard page.



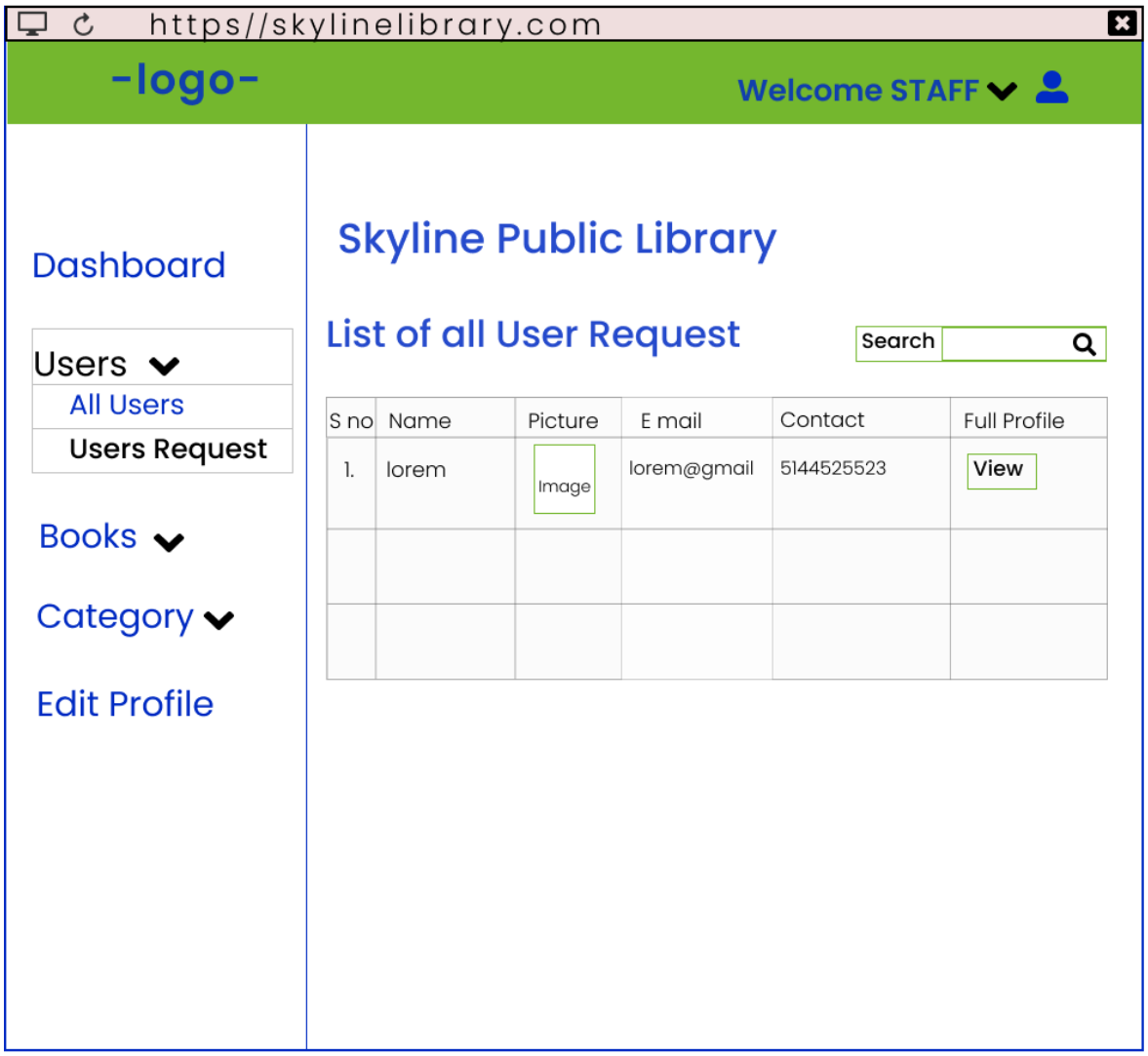
3. List of all Users.



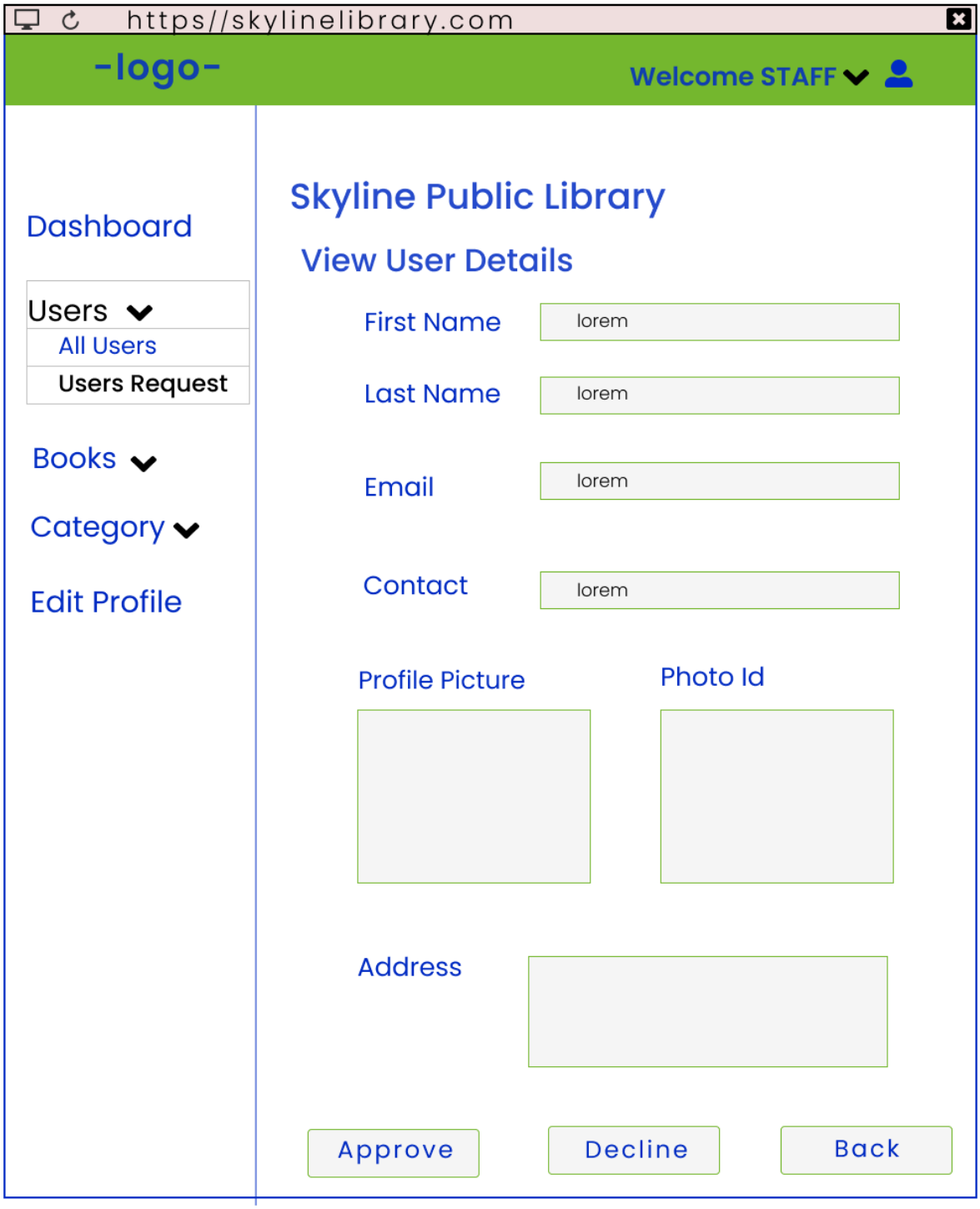
4. View Users Profile page.



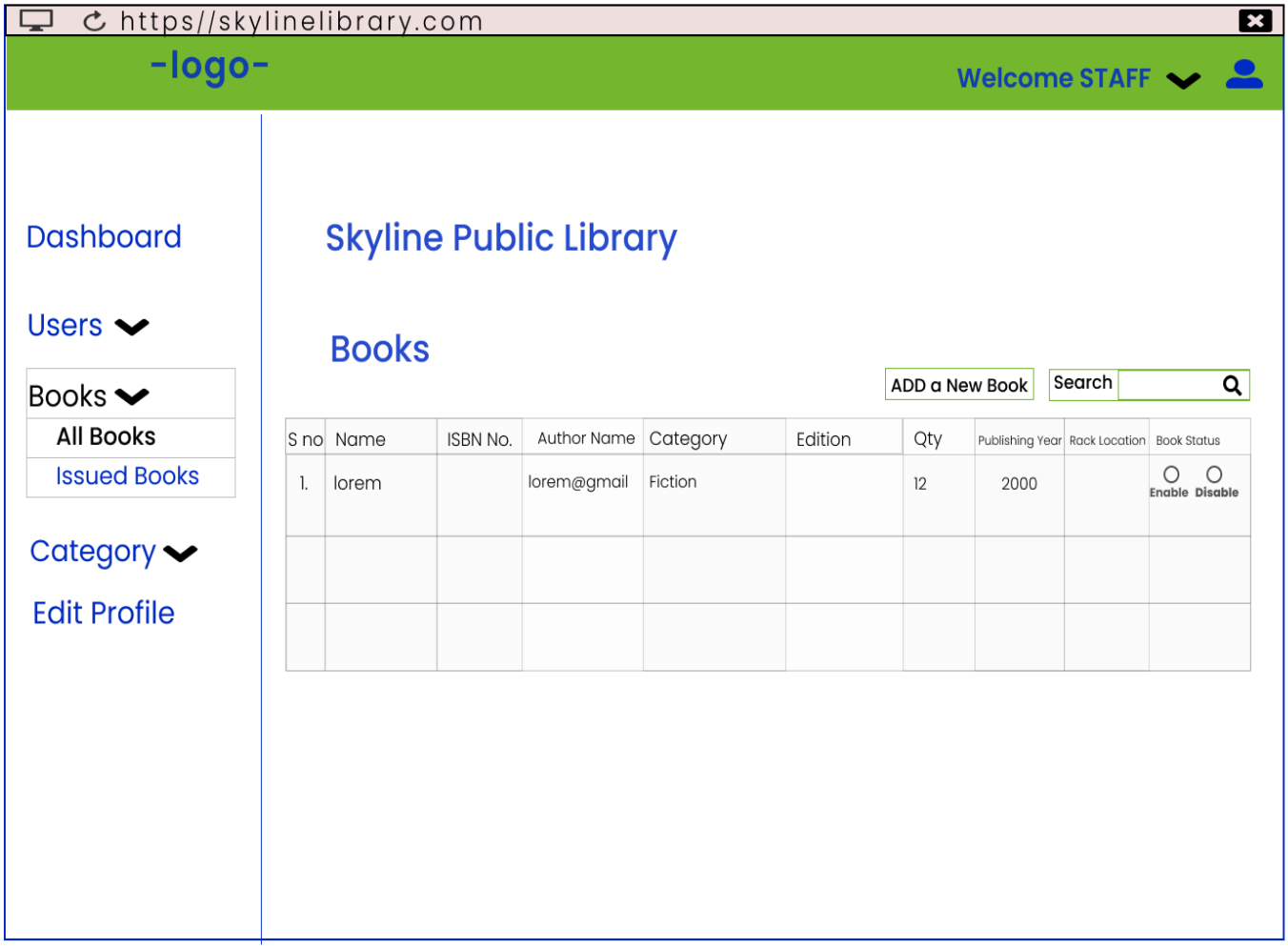
5. List of all User Requests.



6. To Approve/Disapprove User Requests page.



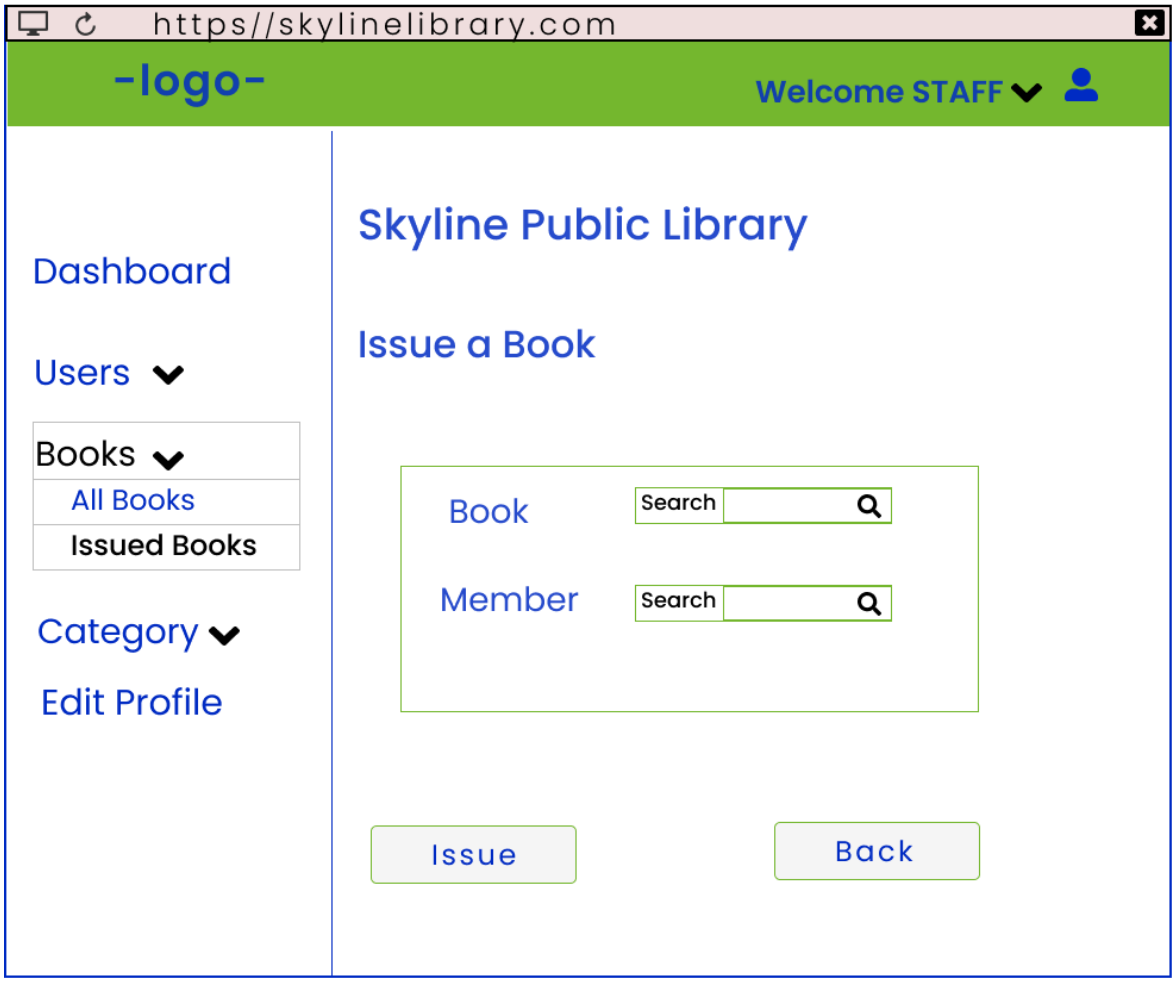
7. List of all Books page.



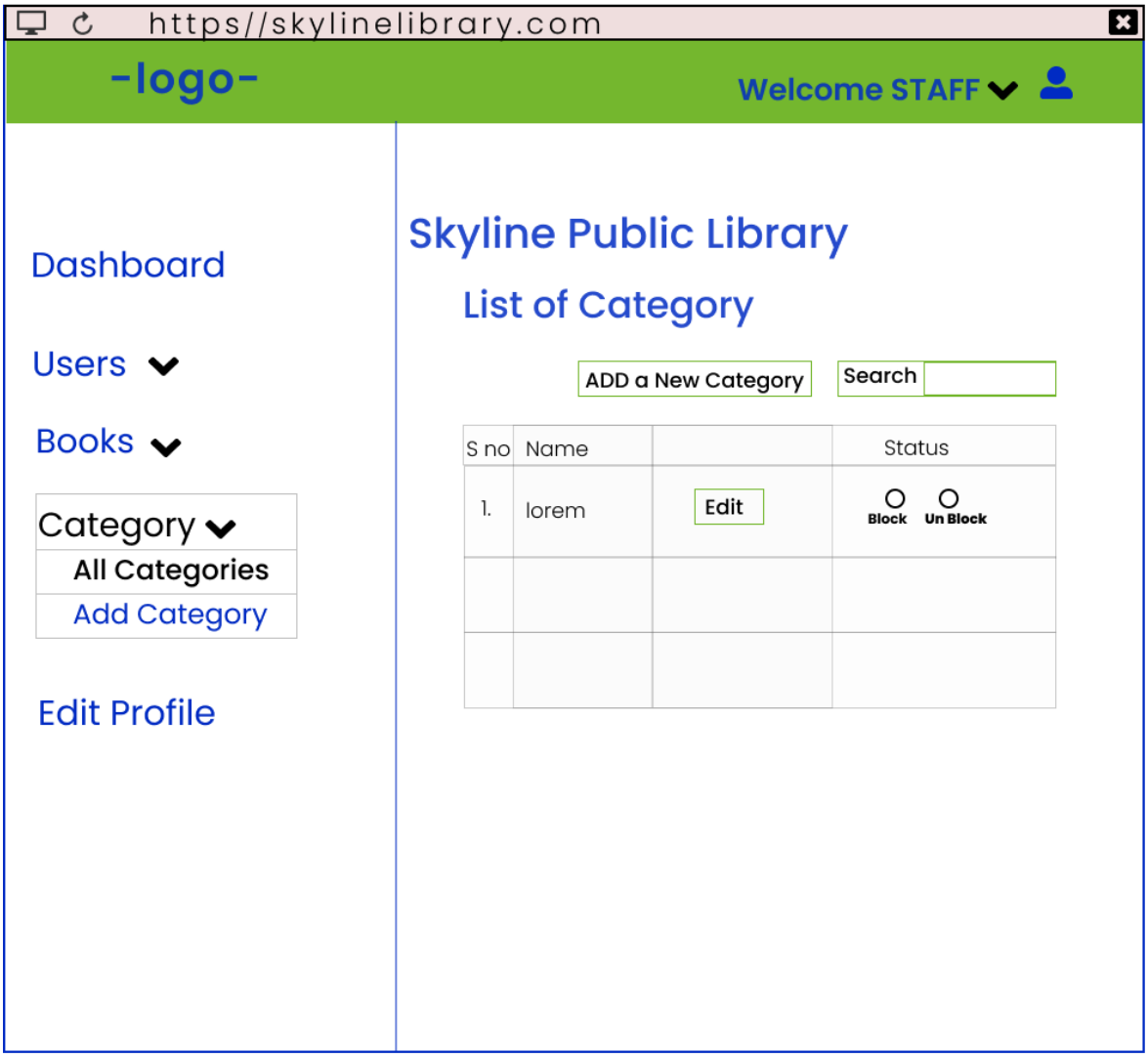
8. Issued Book page.

9. Viewing Details of Issued books page / To check booked as Return.

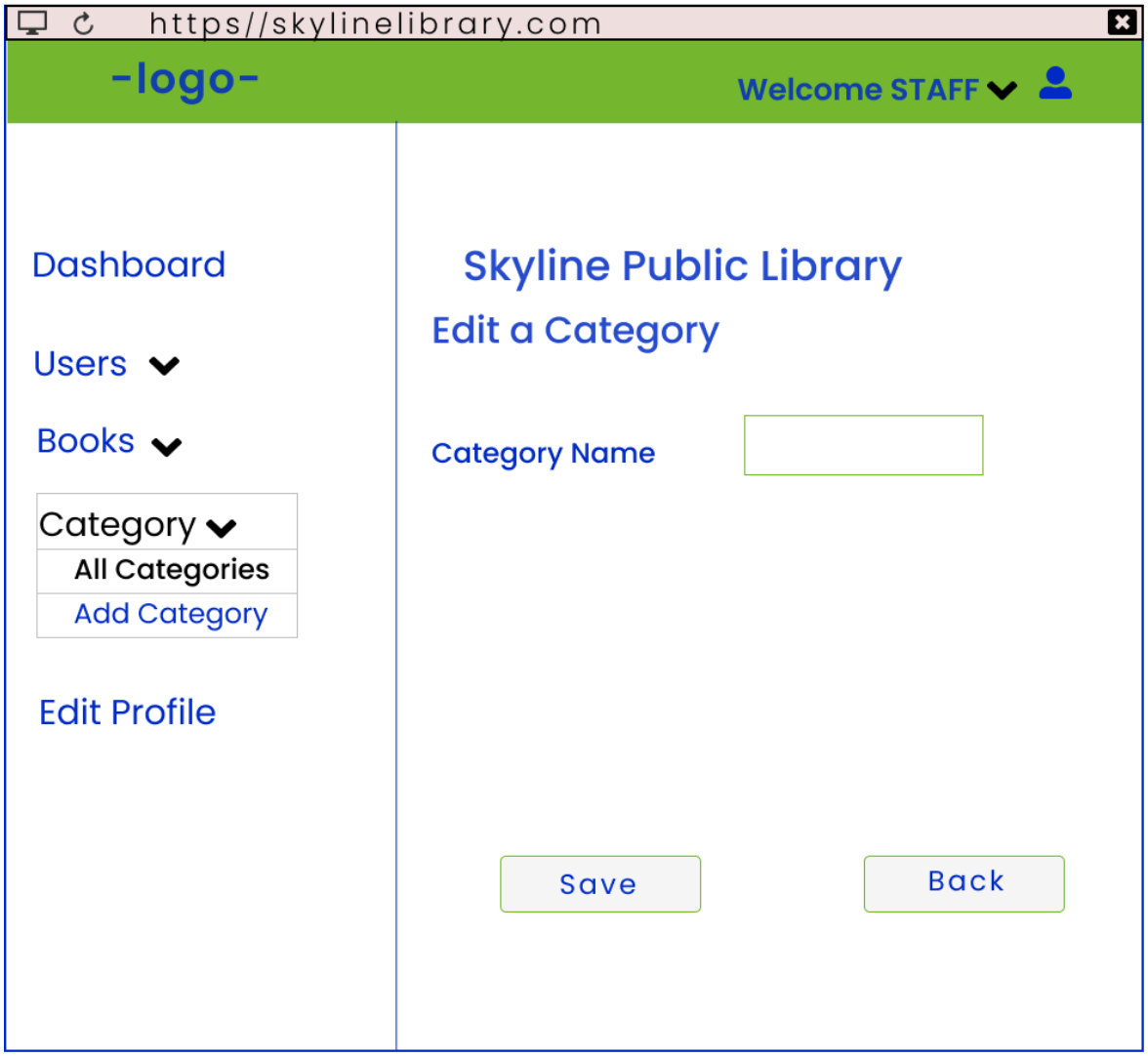
10. To Issue Book page.



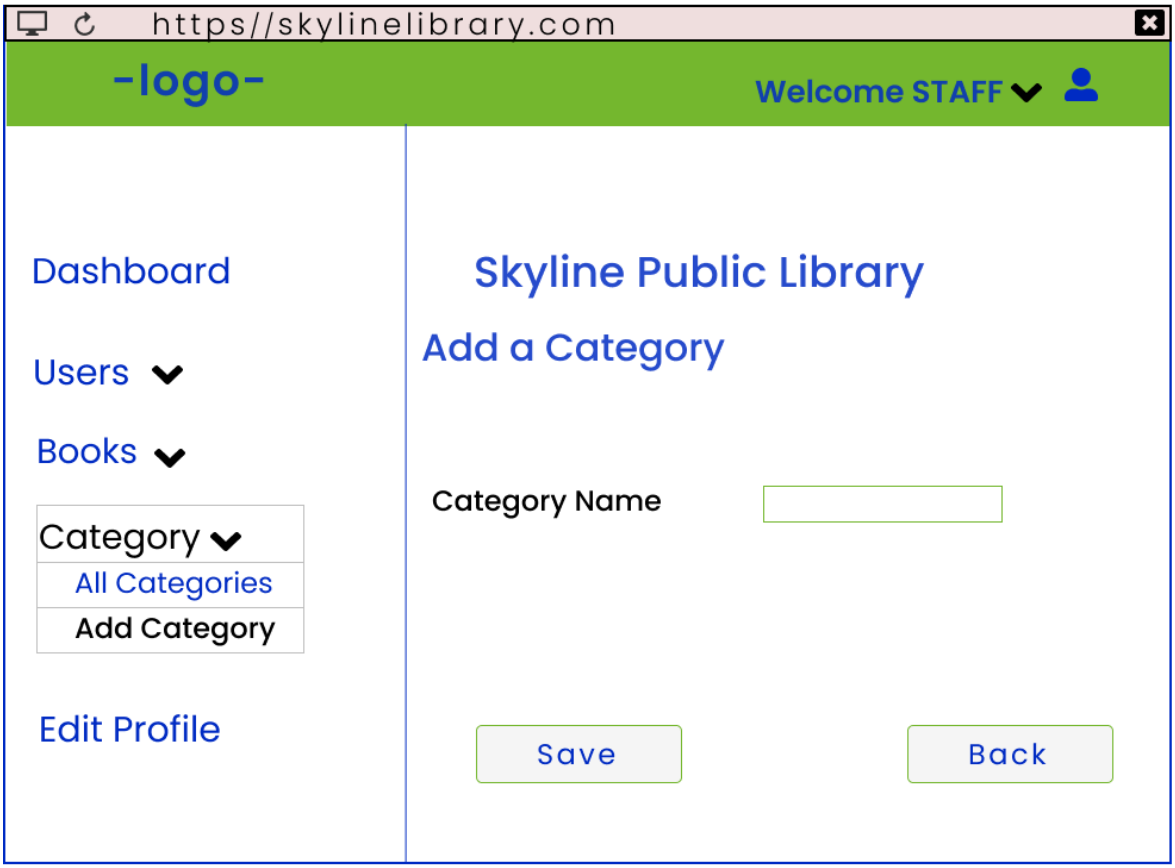
11. List of all Categories page.



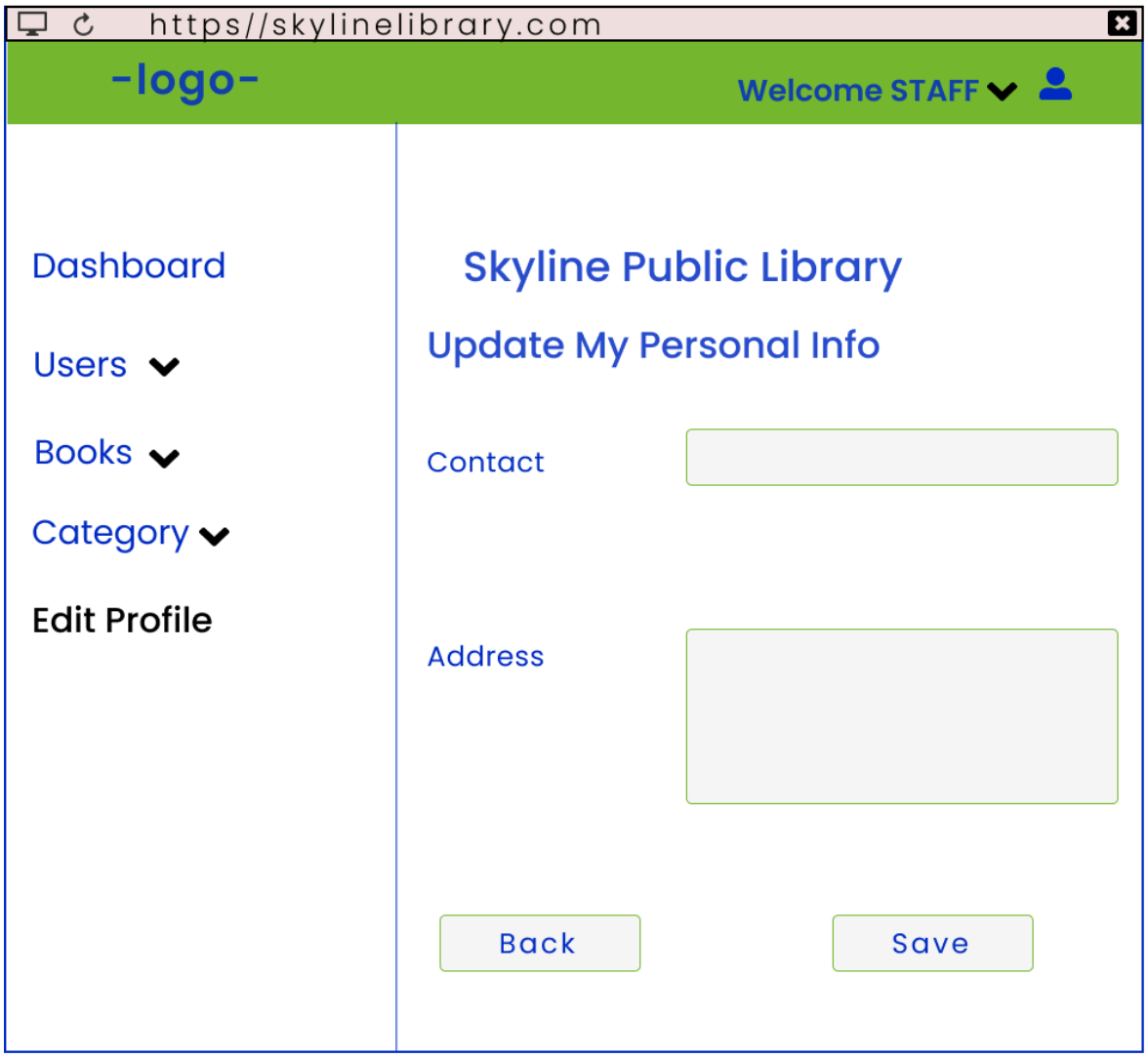
12. Edit a Category page.



13. Add a new Category page.



14. Edit Profile page for Staff.

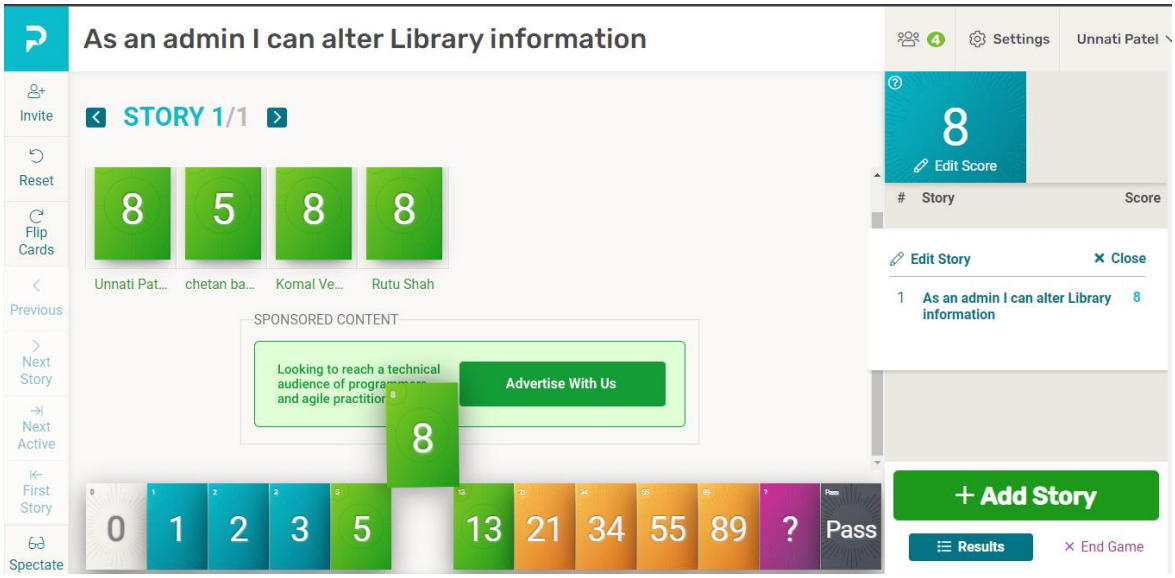


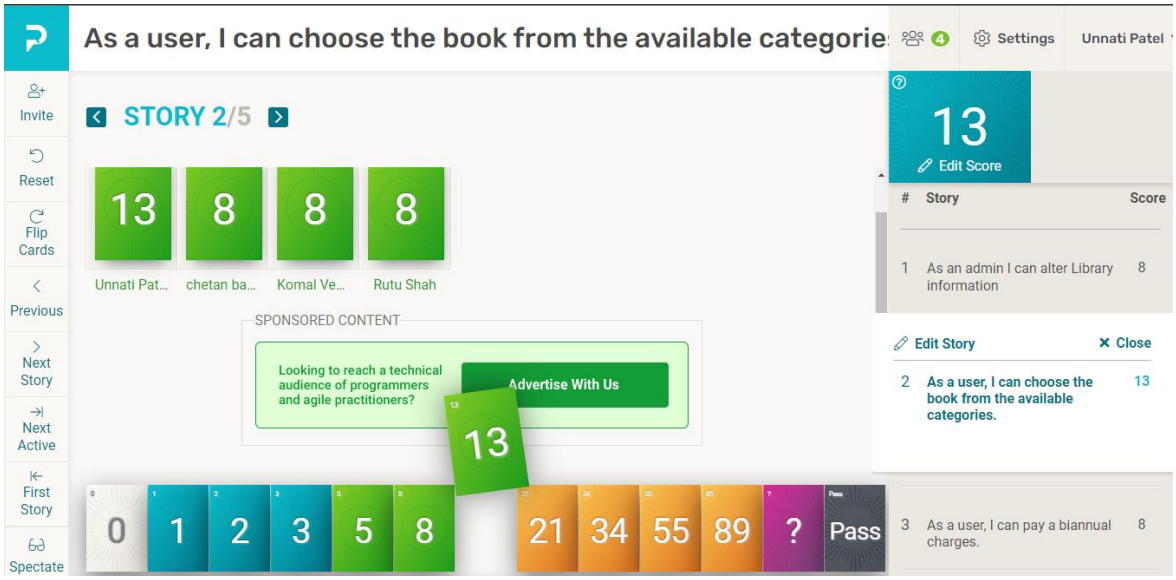
5. User Story.

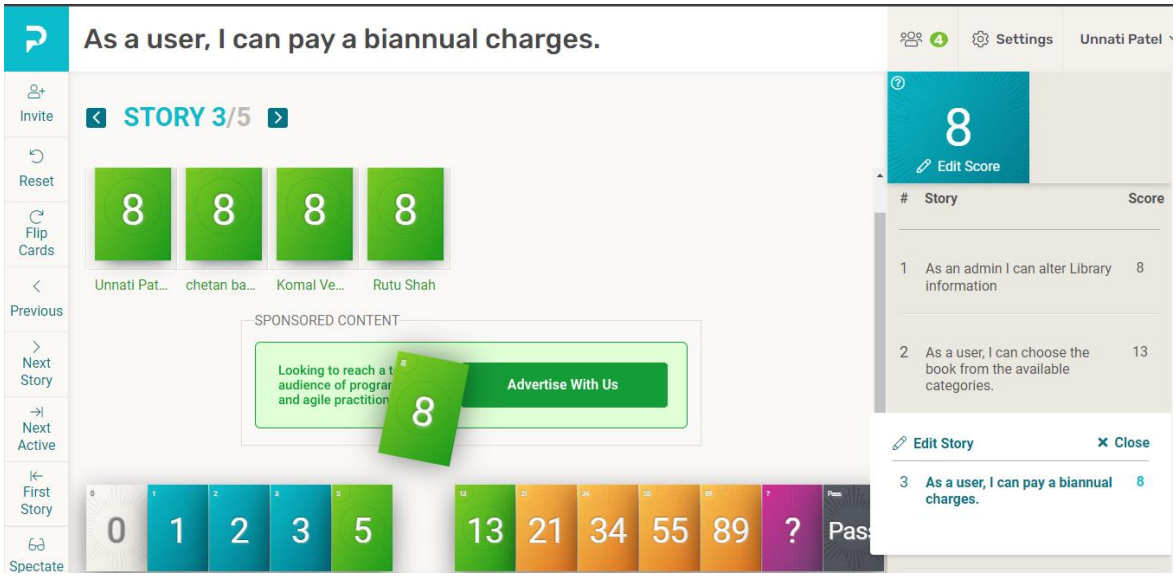
User Id	Description	USP	Priority
US01	As an admin, I can do login.	5	H
US02	As an admin, I can view registered members.	5	M
US03	As admin, I can register staff member.	13	H
US04	As an admin, I can view staff.	8	M
US05	As an admin, I can block unblock staff members.	8	M
US06	As an admin, I can view all books.	5	M
US07	As an admin, I can alter library information.	13	H
US08	As an admin, I can block/unblock the member.	8	M
US09	As an admin, I can approve decline new membership request.	13	H
US10	As an admin, I can view all book categories.	5	M
US11	As an admin, I can add new books categories.	8	M
US12	As an admin, I can add new book.	13	H
US13	As an admin, I can edit/modify a book.	5	M
US14	As an admin, I can issue a book to the member in library.	8	H
US15	As a staff, I can edit my profile.	5	L
US16	As a staff, I can do login myself.	8	M
US17	As a staff, I can view registered users.	5	M
US18	As a staff, I can block unblock members.	8	M
US19	As a staff, I can staff, I can approve decline new membership request.	13	H
US20	As a staff, I can view all book categories.	5	M
US21	As a staff, I can block unblock book categories.	13	M
US22	As a staff, I can staff add new categories.	8	M
US23	As a staff, I can add new book.	8	M
US24	As a staff, I can edit /modify a book.	8	L

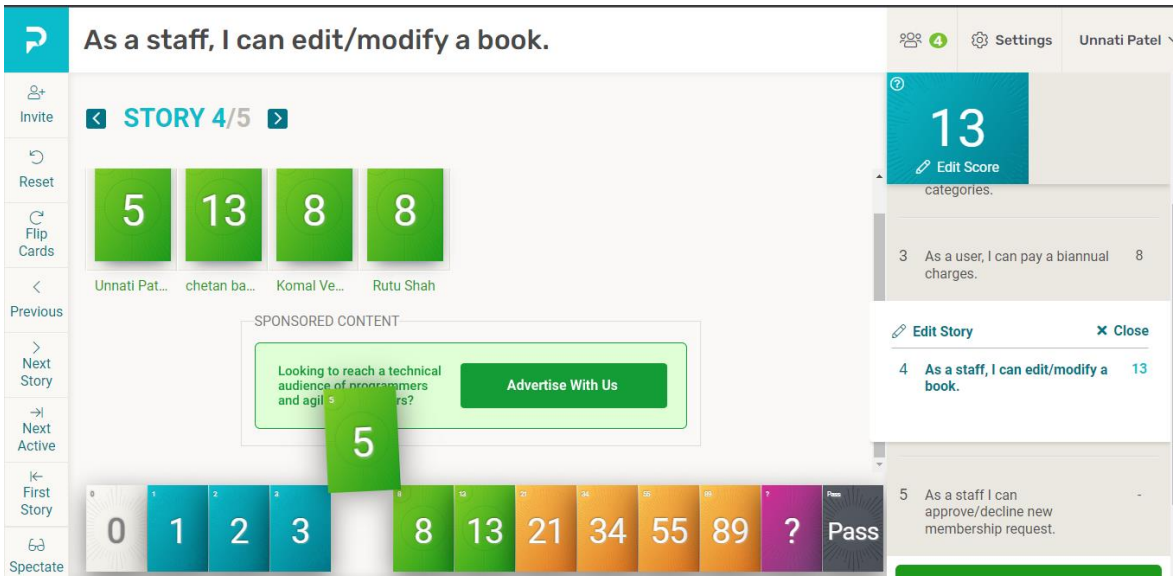
US25	As a staff, I can issue books to the members.	8	H
US26	As a user, I can register myself.	8	M
US27	As a user, I can login myself.	5	M
US28	As a user, Forgot password.	5	M
US29	As a user, Edit my profile.	5	L
US30	As a user, I can pay membership (bi annual) charges.	13	H
US31	As a user, I can choose the book from the available Categories.	13	H
US32	As a user, I can rent 3 books at a time.	8	H
US33	As a user, I can pay fines.	13	H
US34	As a user, Download E-books.	13	H
US35	As a user, I can view all categories.	5	L
US36	As a user, I can view all books from a category.	5	M
		299	

5. Poker Game Screenshots.

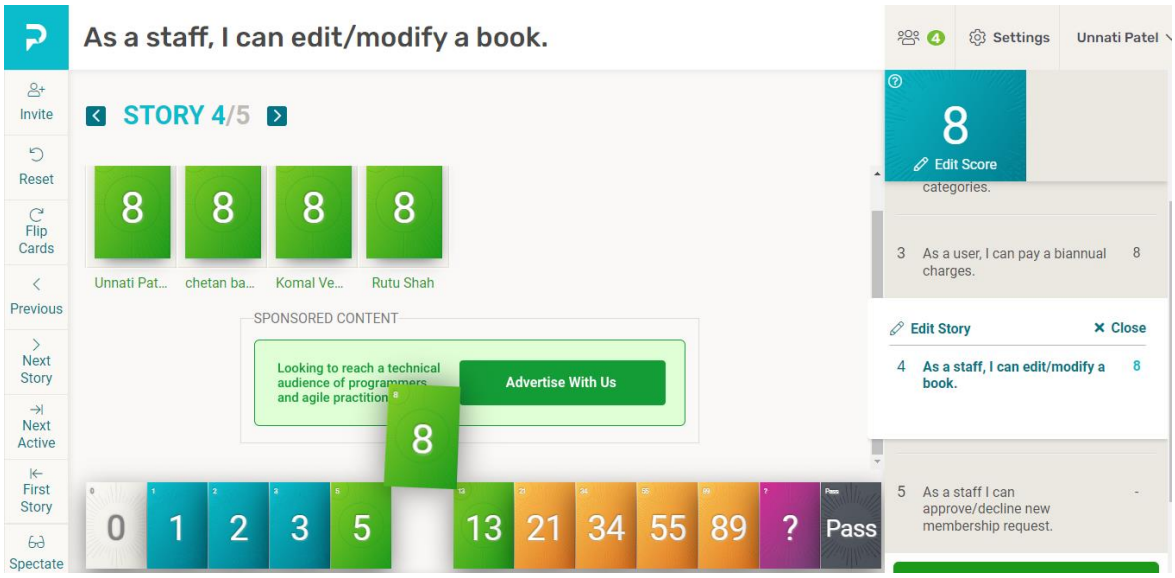


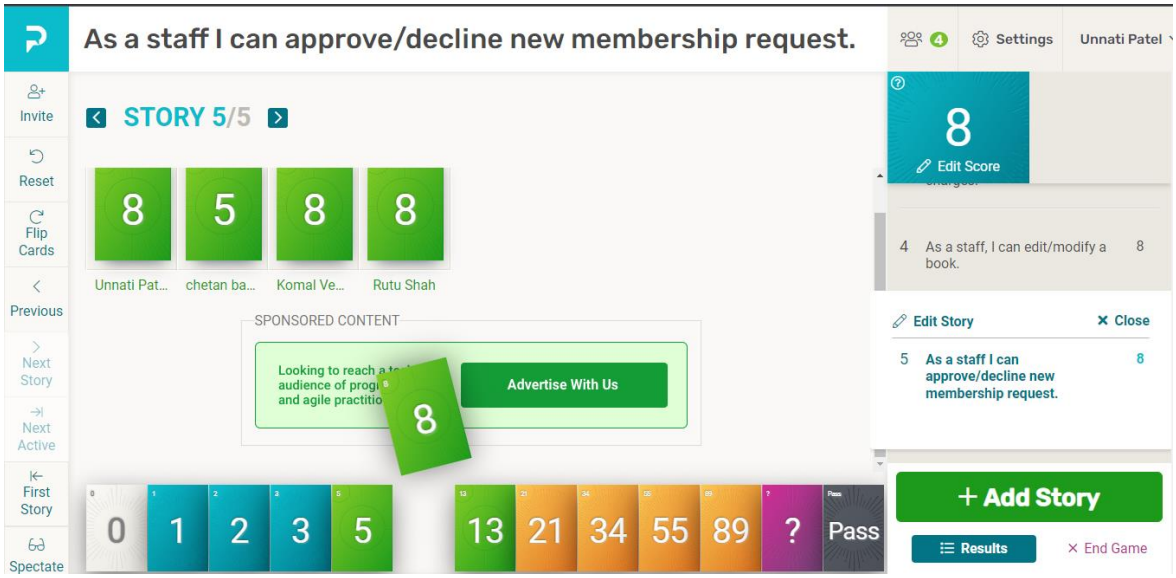



As a user, I can pay a biannual charges.
Settings
Unnati Patel
Invite
Reset
Flip Cards
Previous
Next Story
Next Active
First Story
Spectate
STORY 3/5
8
Edit Score
Story Score
1 As an admin I can alter Library information 8
2 As a user, I can choose the book from the available categories. 13
Edit Story
Close
3 As a user, I can pay a biannual charges. 8
8 8 8 8
Unnati Pat... chetan ba... Komal Ve... Rutu Shah
SPONSORED CONTENT
Looking to reach a t
audience of progra
and agile practition
Advertise With Us
8
0 1 2 3 5
13 21 34 55 89 ? Pas

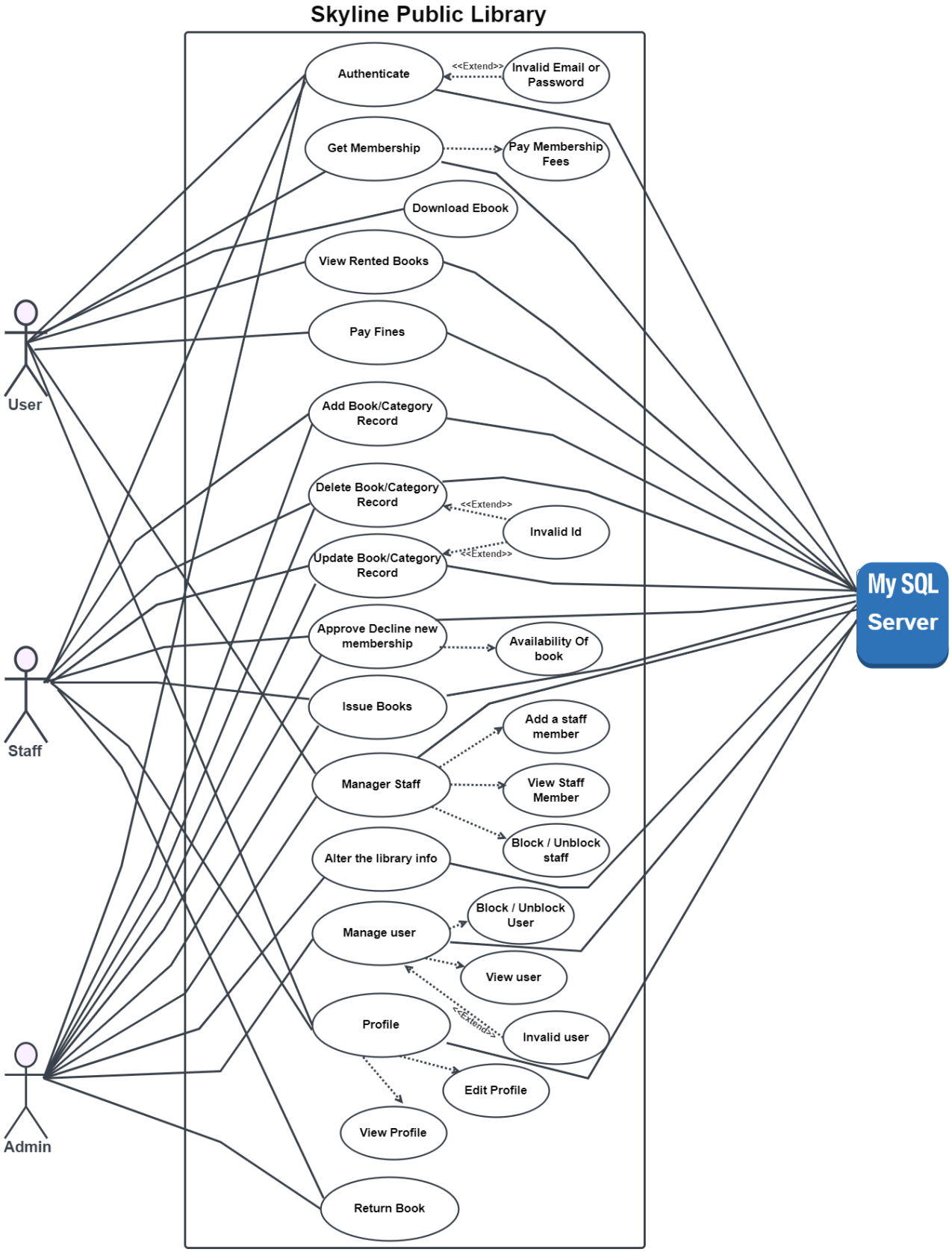

As a staff, I can edit/modify a book.
Settings
Unnati Patel
Invite
Reset
Flip Cards
Previous
Next Story
Next Active
First Story
Spectate
STORY 4/5
13
Edit Score
categories.
3 As a user, I can pay a biannual charges. 8
Edit Story
Close
4 As a staff, I can edit/modify a book. 13
5 As a staff I can approve/decline new membership request. -
5 13 8 8
Unnati Pat... chetan ba... Komal Ve... Rutu Shah
SPONSORED CONTENT
Looking to reach a technical audience of programmers and agil rs?
Advertise With Us
5
0 1 2 3
8 13 21 34 55 89 ? Pass

Playing Second Round as there was a difference in outcome.

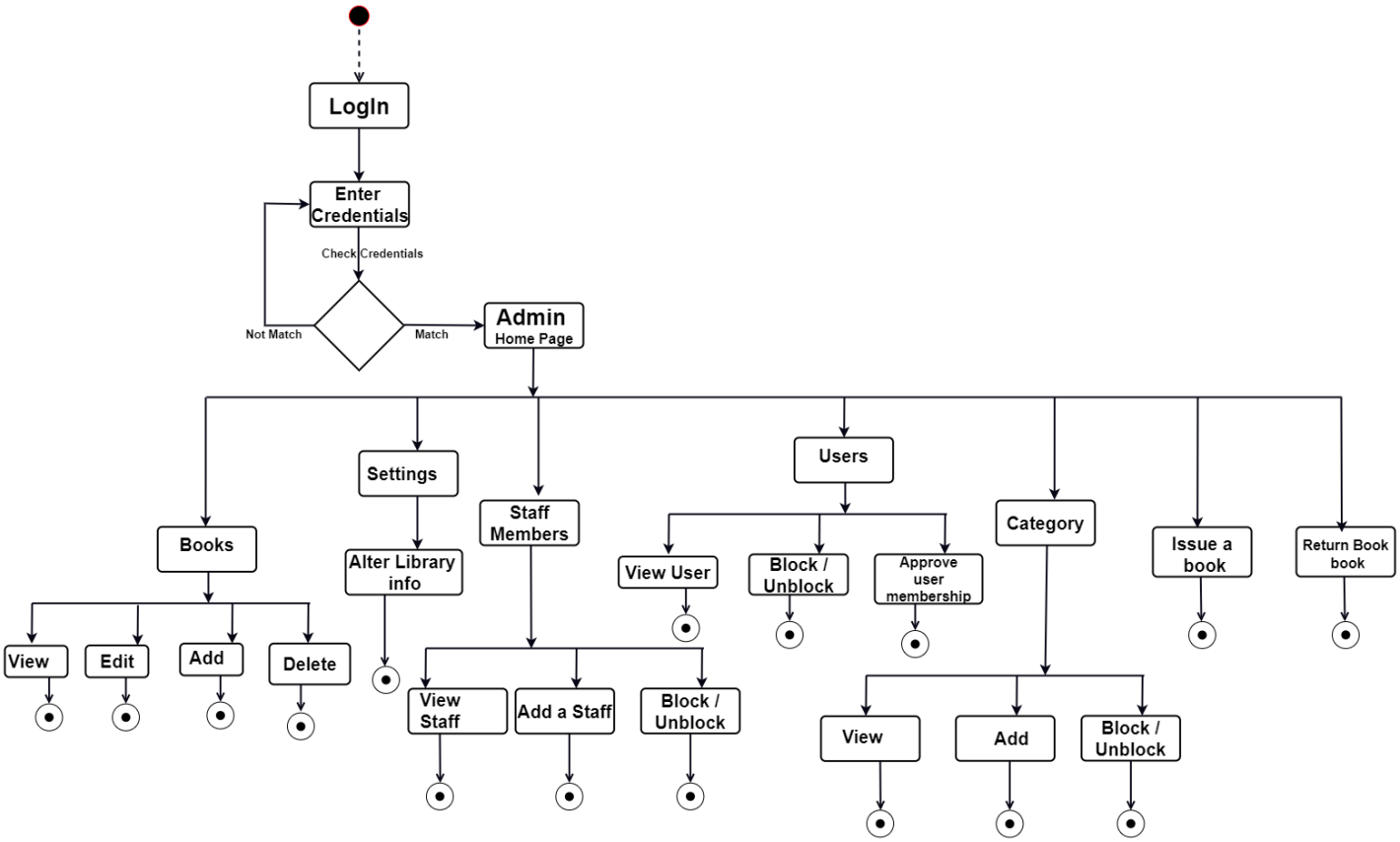




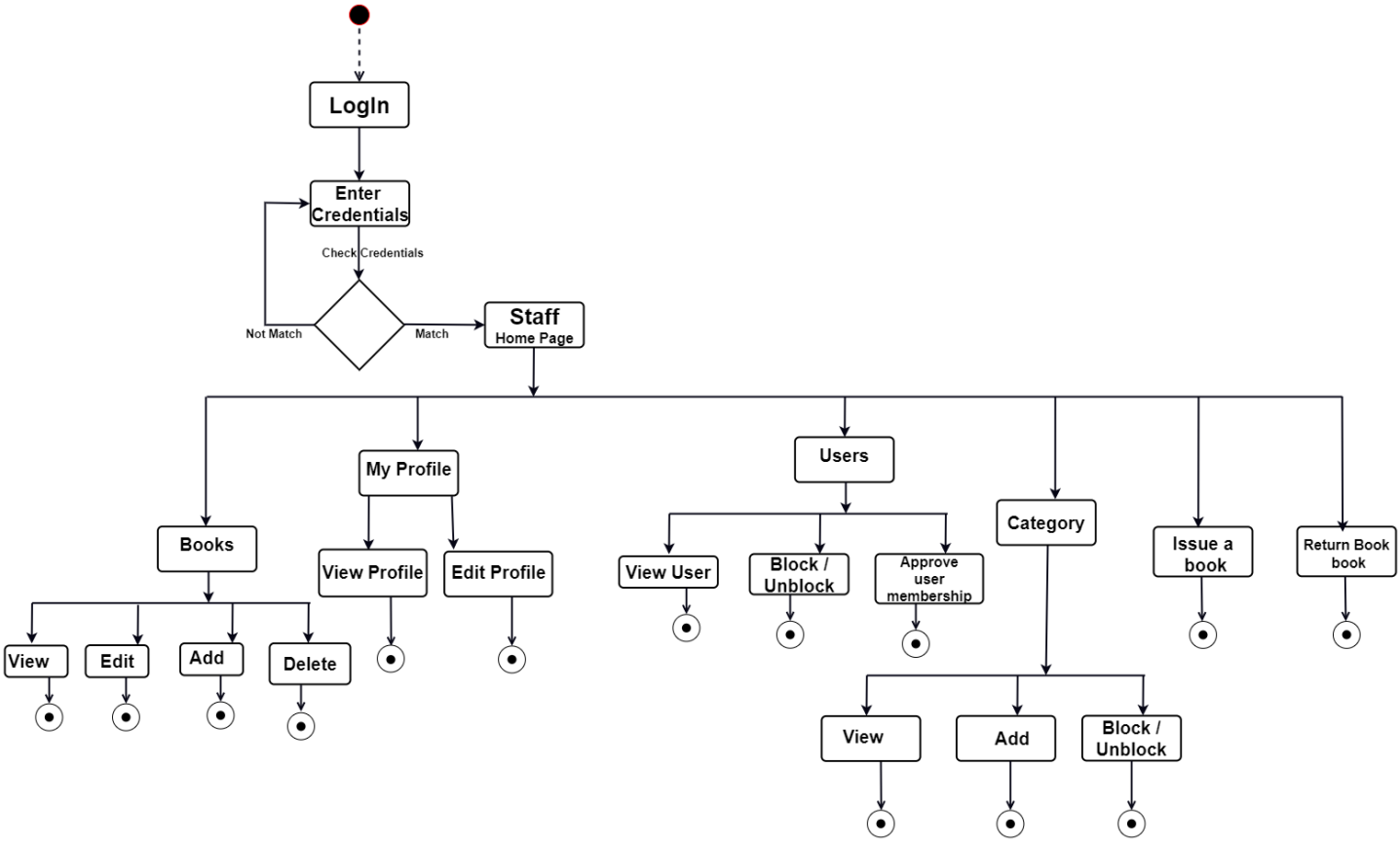
6. Use Case Diagram.



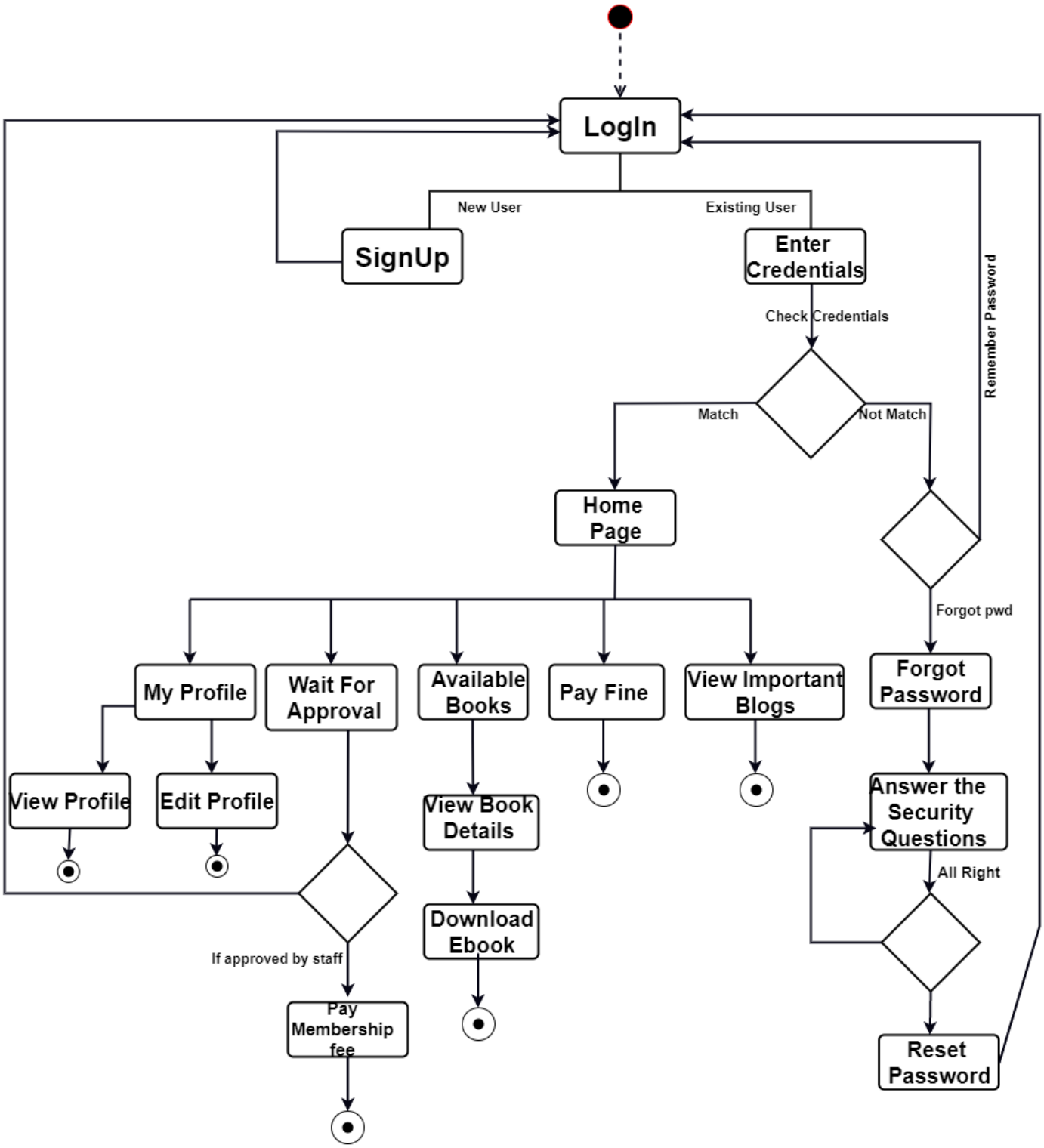
7. Activity Diagram from Admin End.



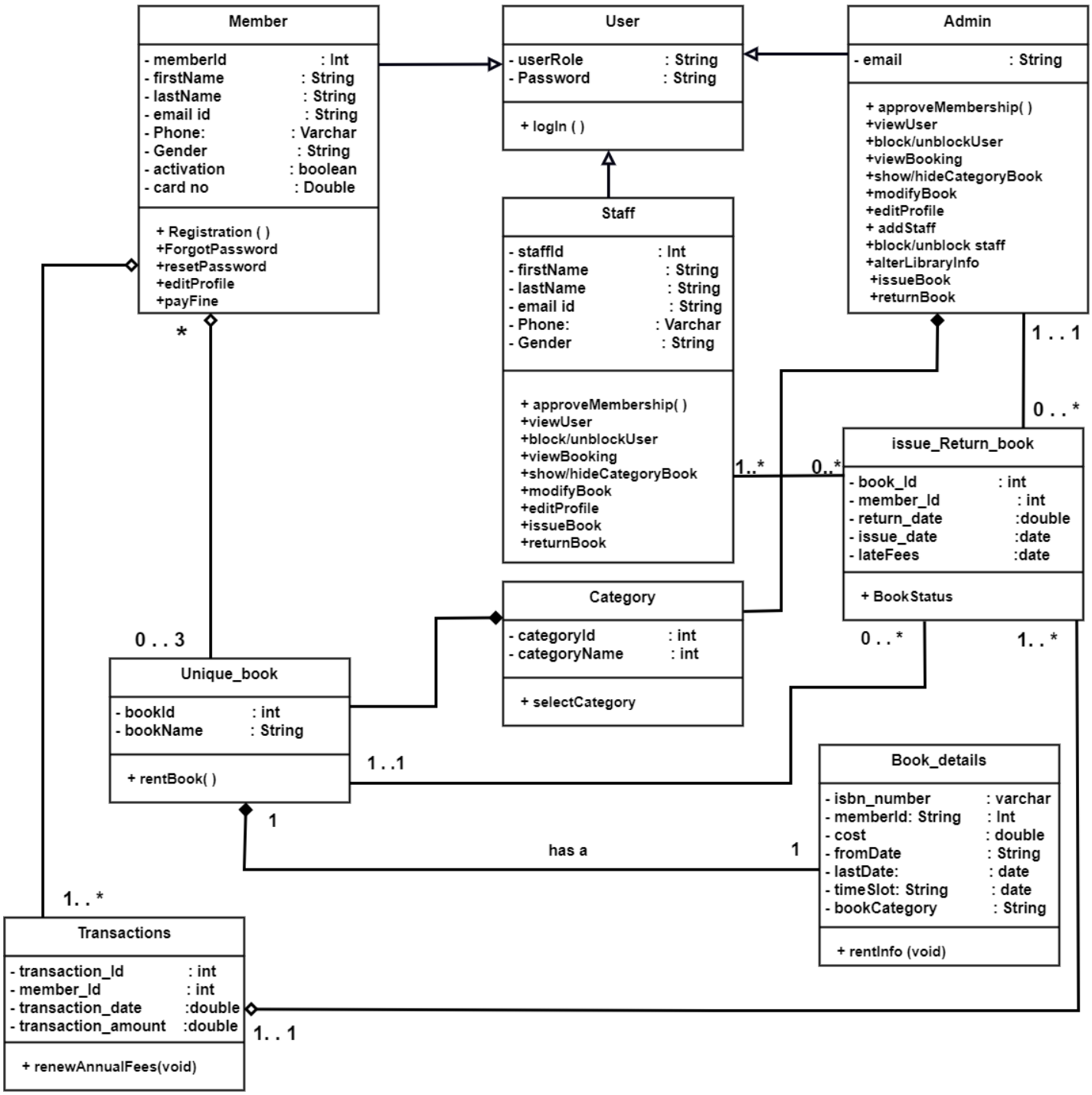
8. Activity Diagram from Staff End.



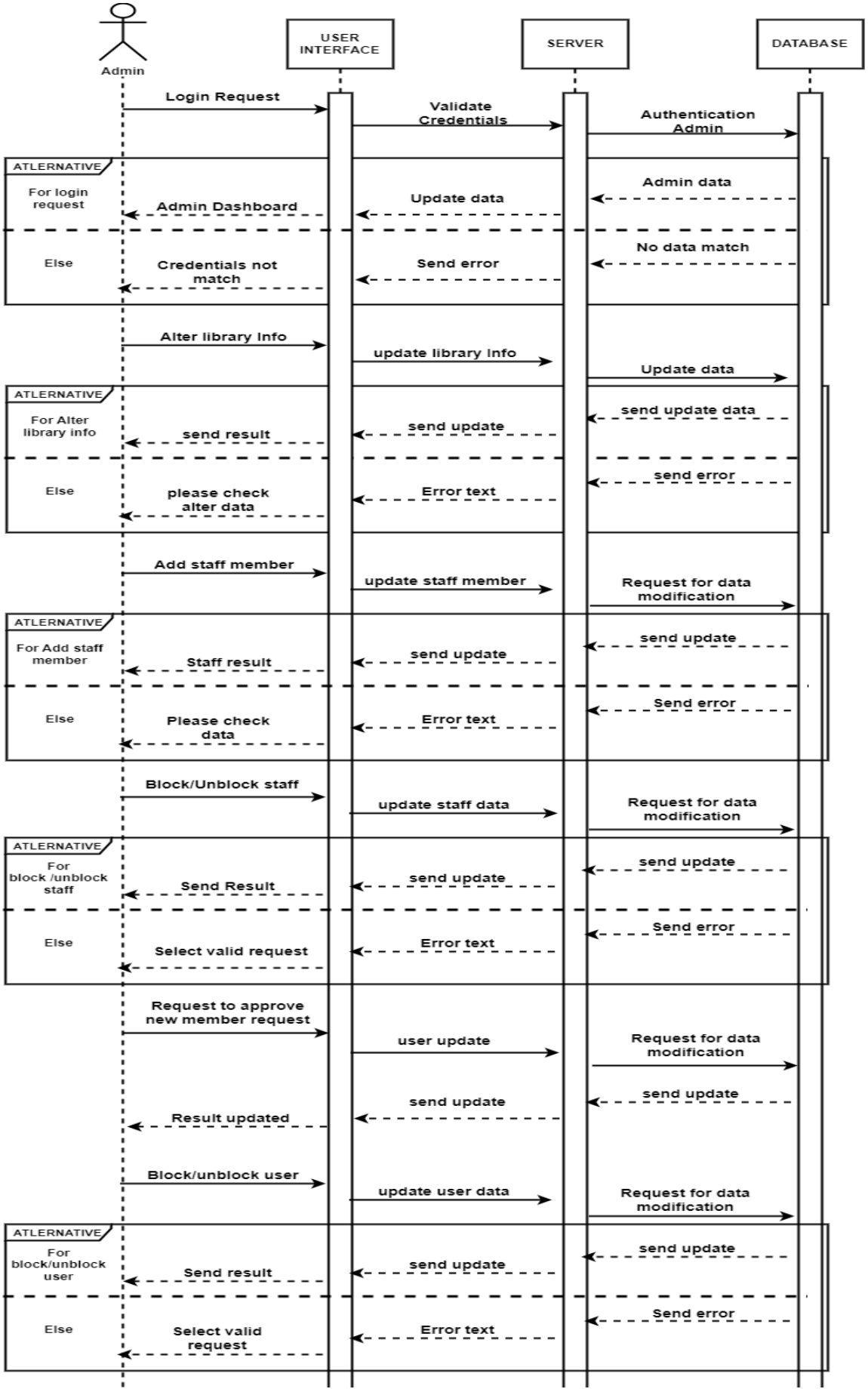
9. Activity Diagram from User End.

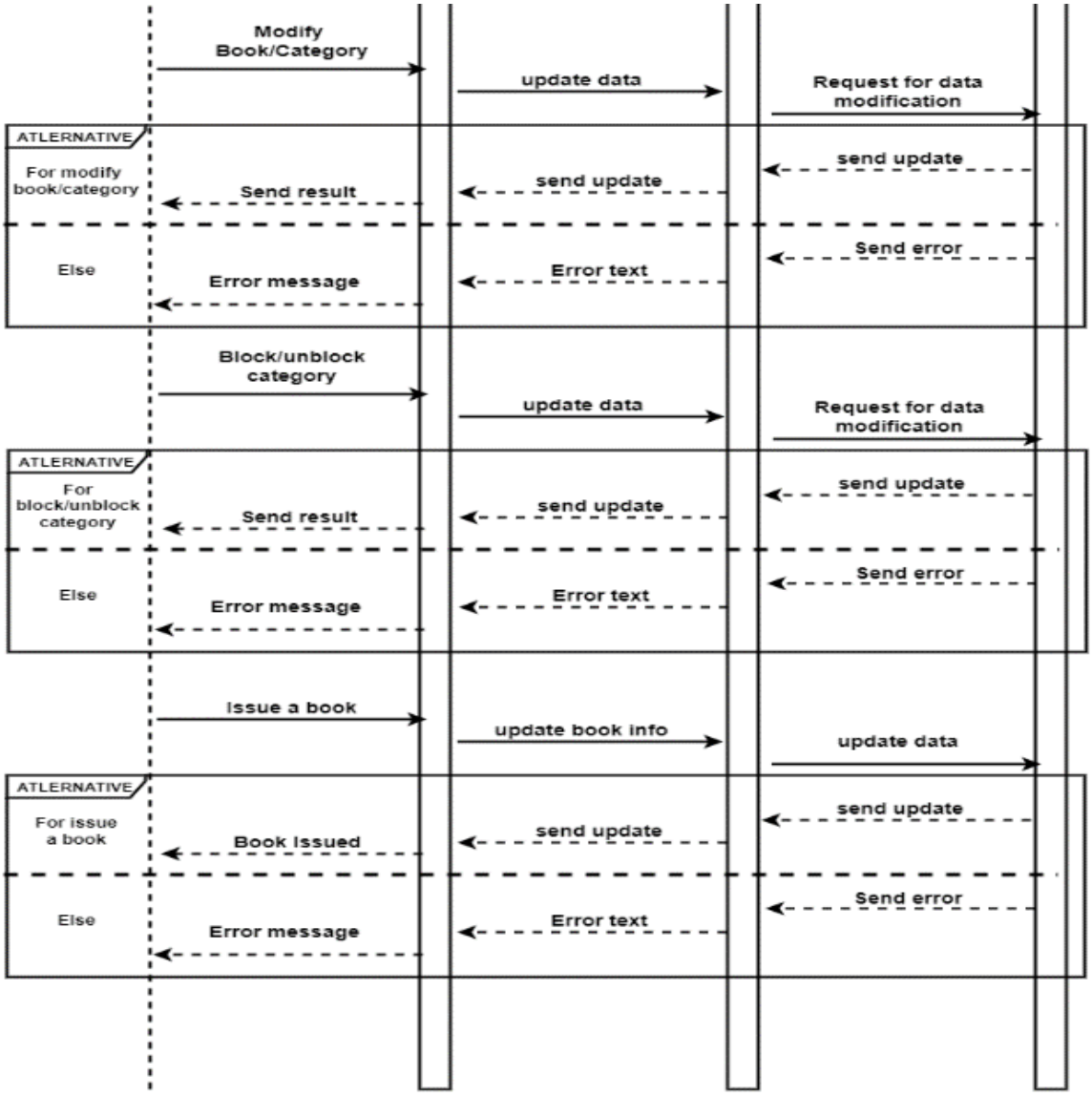


10. Class Diagram.

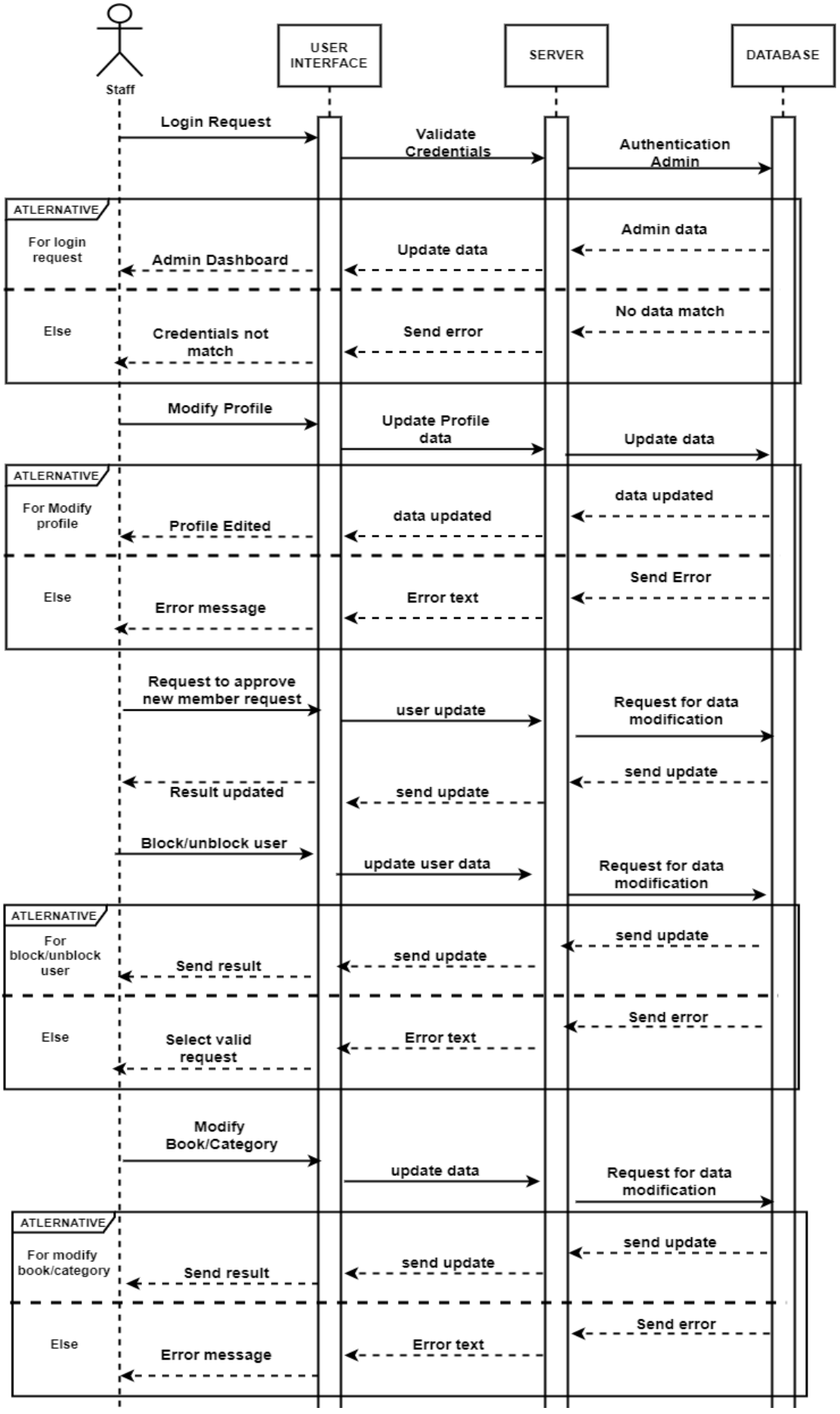


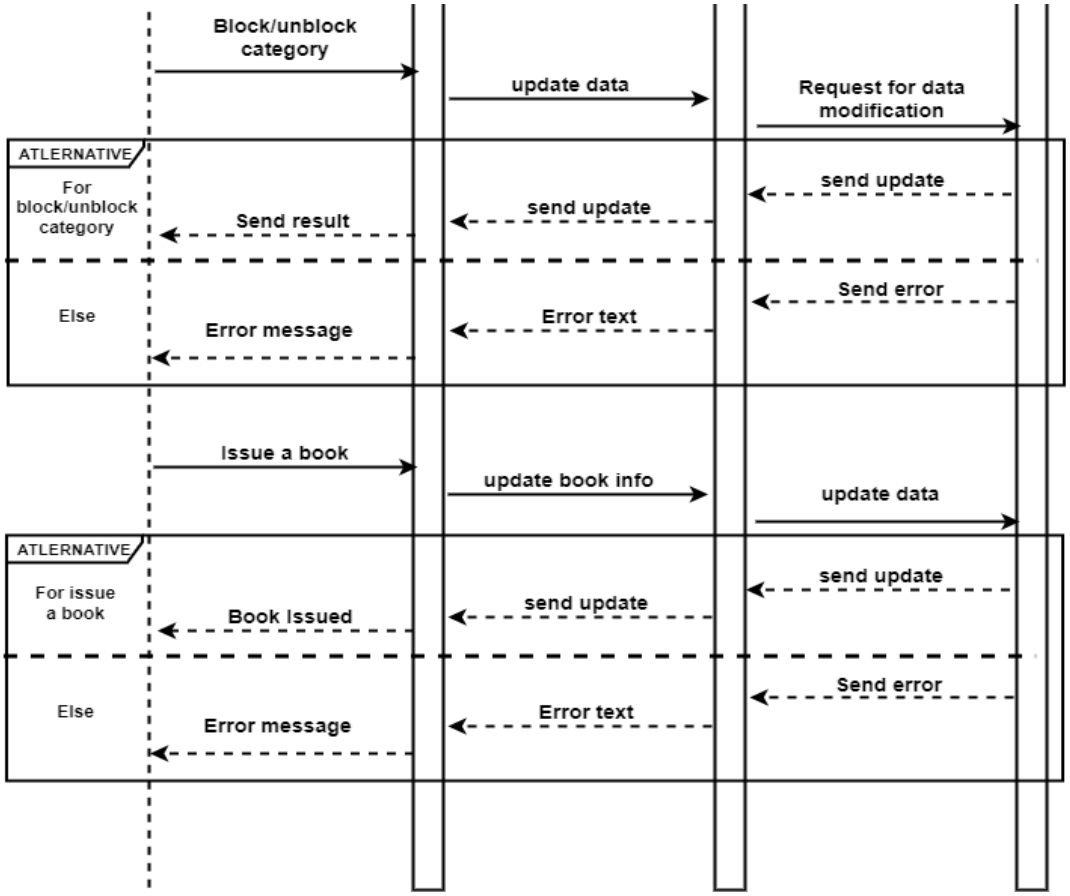
11. Sequence Diagram from Admin End.



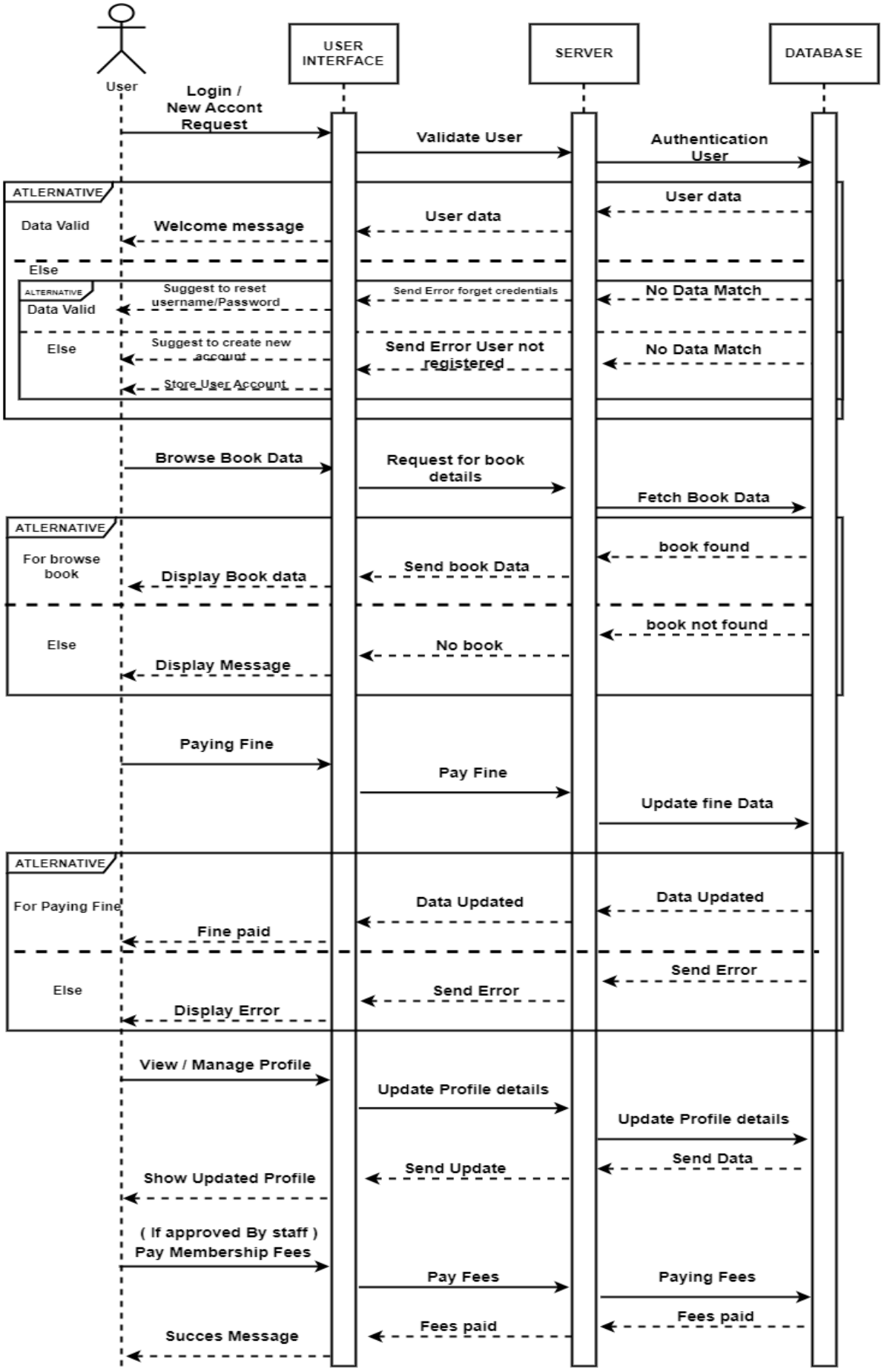

Modify Book/Category
update data
Request for data modification
ATLERNATIVE
For modify book/category
Send result
send update
send update
Else
Error message
Error text
Send error
Block/unblock category
update data
Request for data modification
ATLERNATIVE
For block/unblock category
Send result
send update
send update
Else
Error message
Error text
Send error
Issue a book
update book info
update data
ATLERNATIVE
For issue a book
Book Issued
send update
send update
Else
Error message
Error text
Send error

Sequence Diagram from Staff End.




Block/unblock category
update data
Request for data modification
ATLERNATIVE
For block/unblock category
send update
send update
Send result
Else
Send error
Error text
Error message
Issue a book
update book info
update data
ATLERNATIVE
For issue a book
send update
send update
Book Issued
Else
Send error
Error text
Error message

Sequence Diagram from User End.



12. Fully Dressed Use Case

Use Case Id	US01
Use Case Name	login Admin.
Actors	Admin, Database.
Preconditions	Admin indicates to have login credentials.
Success Scenario	1 Admin indicates to enter correct user name and password. 2 Admin indicates to access admin home page.
Alternatives	1(a) Admin indicates to have the wrong username and password.
Post conditions	Admin indicate to successfully logged into web site.

Use Case Id	US02
Use Case Name	View registered members Admin.
Actors	Admin, Database.
Preconditions	Admin indicates to have username (email id).
Success Scenario	1. Admin has to login successfully **2.** Admin can see all the registered members of the library.
Alternatives	1(a) Admin indicates to that he/she entered the wrong usernam password.
Post conditions	Admin can see all the registered members.

Use Case Id	US03
Use Case Name	Registration of staff by Admin.
Actors	Admin, Database.
Preconditions	Staff indicates to be a new user.
Success Scenario	1. Admin has to login successfully into website. 2. Admin has to go into add staff section. 3. Admin has to fill the staff registration form successfully.
Alternatives	1(a) Admin indicates to that he/she entered the wrong username or password. 3(a) Admin indicate to full fill all conditions of the registration form.
Post conditions	Staff successfully registered.

Use Case Id	US04
Use Case Name	View staff Members, Admin.
Actors	Admin, Database.
Preconditions	1. Admin indicates to have login credentials. 2. Admin indicates to successfully Login. 3. Staff Member indicates to be a Registered Staff.
Success Scenario	1. Admin indicate to click on view staff member. 2. Admin redirect to the view staff member page.
Alternatives	1(a) Admin indicates to that he/she entered the wrong username or password.
Post conditions	Admin can see all registered staff member.

Use Case Id	US05
Use Case Name	Block unblock staff members, Admin.
Actors	Admin, Database.
Preconditions	1Admin indicates to have login credentials. 2. Admin indicates to successfully Login. 3. Staff Member indicates to be a Registered Staff.
Success Scenario	1. Admin indicates to be logged in. 2. Admin indicates to click on staff members. 3. Admin indicates to open all staff members. 4. Admin indicates to block/unblock staff member.
Alternatives	1. Admin indicates to failed to logged in. 4. Admin indicates to failed to block/unblock staff.
Post conditions	Admin indicates to successfully block or Unblock staff member.

Use Case Id	US06
Use Case Name	View all books, Admin.
Actors	Admin, Database.
Preconditions	1 Admin indicates to have login credentials. 2 Admin indicates to successfully Login.
Success Scenario	1.Admin indicates to be logged in. 2.Admin indicates to click on books. 3.Admin indicates to open all books. 4.Admin indicates to see all books list.
Alternatives	1. Admin failed to logged in. 4. Admin indicates to fail to see all books list.
Post conditions	Admin indicates to successfully view all books list.

Use Case Id	US07
Use Case Name	Alter library information Admin.
Actors	Admin, Database.
Preconditions	1 Admin indicates to have login credentials. 2 Admin indicates to successfully Login.
Success Scenario	1. Admin indicates to be logged in. 2.Admin indicates to click on alter library info. 3.Admin indicates to edit library info. 4.Admin indicates to successfully edit Library info.
Alternatives	1 Admin failed to logged in. 4 Admin indicates to open alter library info.
Post conditions	Admin indicates to successfully edit Library info.

Use Case Id	US08
Use Case Name	Block/unblock the member, Admin.
Actors	Admin, Database.
Preconditions	Admin indicates to have login credentials.
Success Scenario	1. Admin indicates to be logged in. 2. Admin indicates to click on users. 3. Admin indicates to open all users. 4. Admin indicates to block/unblock user.
Alternatives	1. Admin indicates to failed to logged in. 4. Admin indicates to failed to block/unblock member.
Post conditions	Admin indicates to successfully block or Unblock library member.

Use Case Id	US09
Use Case Name	Approve decline new membership request, Admin.
Actors	Admin, Database.
Preconditions	Admin indicates to have login credentials.
Success Scenario	1. Admin indicates to be logged in. 2 Admin indicates to click on the new membership request. 3 Admin indicates all new membership request. 4 Admin indicates to approve/decline membership request.
Alternatives	1. Admin indicates to failed to logged in. 4. Admin indicates to failed to approve/decline new membership request.
Post conditions	Admin successfully approve/decline new membership request.

Use Case Id	US10
Use Case Name	View all book categories Admin.
Actors	Admin, Database.
Preconditions	1 Admin indicates to have login credentials. 2 Admin indicates to successfully Login.
Success Scenario	1.Admin indicates to be logged in. 2.Admin indicates to click on categories. 3.Admin indicates to open all categories. 4.Admin indicates to see all book categories.
Alternatives	1. Admin failed to logged in. 4. Admin indicates to fail to see all categories.
Post conditions	Admin indicates to successfully view all Book categories.

Use Case Id	US11/US12
Use Case Name	Add new books categories/new book Admin.
Actors	Admin, Database.
Preconditions	Admin indicate to successfully logged in.
Success Scenario	1.Admin indicates to be logged in. 2.Admin indicates to click on add new book/add new category. 3 Admin indicates to open add new book/add new category. 4.Admin indicates to successfully enter all data.
Alternatives	1(a)Admin failed to logged in. 4(a) Admin indicates to open add new book/ add new category.
Post conditions	Admin indicate that book/category successfully added.

Use Case Id	US013
Use Case Name	Edit/modify a book/category Admin.
Actors	Admin, Database.
Preconditions	Admin indicate to successfully logged in
Success Scenario	1.Admin indicates to be logged in. 2.Admin indicates to click on edit book/category. 3 Admin indicates to open edit book/ category. 4.Admin indicates to successfully enter all data.
Alternatives	1(a)Admin failed to logged in. 4(a) Admin indicates to open edit book/category.
Post conditions	Admin indicate that book/category successfully edited.

Use Case Id	US014
Use Case Name	issue a book Admin.
Actors	Admin, Database.
Preconditions	Admin indicate to successfully logged in
Success Scenario	1.Admin indicates to be logged in. 2.Admin indicates to click on issue book. 3 Admin indicates to open issue book. 4.Admin indicates to search book and member id. 5. admin indicates to click on issue button.
Alternatives	1(a)Admin failed to logged in. 3(a) Admin indicates to open edit book/category. 4(a) Admin indicates that entered book or member id not found.
Post conditions	Admin indicate that book issued successfully

Use Case Id	US015
Use Case Name	edit my profile Staff.
Actors	Staff, Database.
Preconditions	Staff indicate to successfully logged in
Success Scenario	1.staff indicates to be logged in. 2.staff indicates to click on edit my profile. 3 staff indicate to open edit my profile. 4 staff indicate to modify their data.
Alternatives	1(a)staff failed to logged in. 3(a) staff indicate to open edit my profile. 4(a) staff indicate to full fill all condition.
Post conditions	Staff indicated that profile successfully edited.

Use Case Id	US016
Use Case Name	login Staff.
Actors	Staff, Database.
Preconditions	staff indicates to have login credentials.
Success Scenario	2 Staff indicates to enter correct user name and password. 3 Staff indicate to access admin home page.
Alternatives	1(a) Staff indicate to have the wrong username and password.
Post conditions	Staff indicate to successfully logged into web site.

Use Case Id	US017
Use Case Name	View registered users Staff.
Actors	Staff, Database.
Preconditions	staff indicates to have username (email id).
Success Scenario	1 Staff has to login successfully 2 Staff can see all the registered members of the library.
Alternatives	1(a) staff indicate to that he/she entered the wrong username or password.
Post conditions	Staff can see all the registered members.

Use Case Id	US018
Use Case Name	Block unblock members.
Actors	Staff, Database.
Preconditions	Staff indicates to have login credentials.
Success Scenario	1. Staff indicates to be logged in. 2. Staff indicates to click on users. 3. Staff indicates to open all users. 4. Staff indicates to block/unblock user.
Alternatives	1. Staff indicates to failed to logged in. 4. Staff indicates to failed to block/unblock member.
Post conditions	Staff indicates to successfully block or Unblock library member.

Use Case Id	US019
Use Case Name	Approve decline new membership request Staff.
Actors	Staff, Database.
Preconditions	Staff indicates to have login credentials.
Success Scenario	1 . Staff indicates to be logged in. 2 Staff indicates to click on the new membership request. 3 Staff indicates all new membership request. 4 Staff indicates to approve/decline membership request.
Alternatives	1. Staff indicates to failed to logged in. 4. Staff indicates to failed to approve/decline new membership request.
Post conditions	Staff successfully approve/decline new membership request.

Use Case Id	US20
Use Case Name	View all book categories Staff.
Actors	Staff, Database.
Preconditions	1 Staff indicates to have login credentials. 2 Staff indicate to successfully Login.
Success Scenario	1. Staff indicates to be logged in. 2. Staff indicates to click on books. 3. Staff indicates to open all books. 4. Staff indicates to see all books list.
Alternatives	1. Staff failed to logged in. 4. Staff indicates to fail to see all books list.
Post conditions	Staff indicates to successfully view all books list.

Use Case Id	US021
Use Case Name	Block unblock book categories.
Actors	Staff, Database.
Preconditions	Staff indicates to have login credentials.
Success Scenario	1. Staff indicates to be logged in. 2. Staff indicates to click block/unblock category. 3. Staff indicates to open block/unblock category. 4. Staff indicates to select which category wants to block/unblo
Alternatives	1. Staff indicates to failed to logged in. 4. Staff indicates to failed to block/unblock category.
Post conditions	Staff indicates to successfully block or Unblock book's categor

Use Case Id	US22/US23
Use Case Name	Add new categories/Book Staff.
Actors	Staff, Database.
Preconditions	Staff indicate to successfully logged in.
Success Scenario	1. Staff indicates to be logged in. 2. Staff indicates to click on add new book/add new category. 3 Staff indicates to open add new book/add new category. 4. Staff indicates to successfully enter all data.
Alternatives	1(a) Staff failed to logged in. 4(a) Staff indicates to open add new book/ add new category.
Post conditions	Staff indicate that book/category successfully added.

Use Case Id	US24
Use Case Name	Edit /modify a book/category Staff.
Actors	Staff, Database.
Preconditions	Staff indicate to successfully logged in
Success Scenario	1. Staff indicates to be logged in. 2. Staff indicates to click on edit book/category. 3 Staff indicates to open edit book/ category. 4. Staff indicates to successfully enter all data.
Alternatives	1(a) Staff failed to logged in. 4(a) Staff indicates to open edit book/category.
Post conditions	Staff indicate that book/category successfully edited.

Use Case Id	US025
Use Case Name	Issue books Staff.
Actors	Staff, Database.
Preconditions	Staff indicate to successfully logged in
Success Scenario	1. Staff indicates to be logged in. 2. Staff indicates to click on issue book. 3 Staff indicates to open issue book. 4. Staff indicates to search book and member id. 5. Staff indicates to click on issue button.
Alternatives	1(a) Staff failed to logged in. 3(a) Staff indicates to open edit book/category. 4(a) Staff indicates that entered book or member id not found.
Post conditions	Staff indicate that book issued successfully

Use Case Id	US26
Use Case Name	Registration User.
Actors	User, Database.
Preconditions	The user does not have an account before.
Success Scenario	1 User indicate to click on registration link. 2 User indicate to open the registration form. 3 User indicate to full fill the registration form with all conditio 4 User indicate to click on the register button.
Alternatives	1(a) User indicate to open registration link 3(a) User does not full fill all conditions.
Post conditions	User successfully registered in website.

Use Case Id	US27
Use Case Name	login User.
Actors	User, Database.
Preconditions	User indicates to be a Registered User.
Success Scenario	1. User indicates to have right LogIn credentials. 2. User indicates to redirect to user home page.
Alternatives	1 (a) User indicates to have wrong username and password. 1 (b) User indicates to redirect to forgot Password.
Post conditions	1. User indicates to access Users home page. 2. User indicates to book/View activities.

Use Case Id	US28
Use Case Name	Forgot Password User.
Actors	User, Database.
Preconditions	User indicates to be Registered user.
Success Scenario	1 User indicates to entered wrong credentials. 2 User indicates to click on forgot password link. 3 Admin indicates to answer all security question correctly. 4 User indicates to enter new password and confirm password. 5 User indicates to redirect to login.
Alternatives	1(a) user indicates to enter right username and password. 3(a) user indicates to check all security question answer to rese password.
Post conditions	User successfully login with new credentials.

Use Case Id	US29
Use Case Name	Edit profile User.
Actors	User, Database.
Preconditions	User indicate to successfully logged in
Success Scenario	1. User indicates to be logged in. 2. User indicates to click on edit my profile. 3 User indicates to open edit my profile. 4 User indicates to modify their data.
Alternatives	1(a) User failed to logged in. 3(a) User indicates to open edit my profile. 4(a) User indicates to full fill all condition.
Post conditions	User indicated that profile successfully edited.

Use Case Id	US30
Use Case Name	pay membership charges User.
Actors	User, Database.
Preconditions	User indicate to successfully logged in
Success Scenario	1. User indicates to be logged in. 2. User indicates to click on Pay my membership fees.. 3 User indicates to open Pay my membership fees.. 4 User indicates to modify their data.
Alternatives	1(a) User failed to logged in. 3(a) User indicates to openpay my membership fees.
Post conditions	User indicate that membership fees successfully paid.

Use Case Id	US31
Use Case Name	Choosing a book from category User.
Actors	User, Database.
Preconditions	User indicate to successfully logged in
Success Scenario	1 User indicates to be logged in. 2 User indicate to click on the particular category. 3 User indicate to choose the book from the list of the books.
Alternatives	1(a) User failed to logged in. 3(a) User indicates to not choosing the book.
Post conditions	User indicate the book successfully choose.

Use Case Id	US32
Use Case Name	Renting Books User.
Actors	User, Database.
Preconditions	User indicate to successfully logged in
Success Scenario	1 User indicates to be logged in. 2 User indicate to choose a book from particular category. 3 User indicate to click on book details button. 4 User indicate to click on rent book link.
Alternatives	1(a) User failed to logged in. 2(a) User indicate to book is not available for the rent today.
Post conditions	User indicate that book is successfully rented.

Use Case Id	US33
Use Case Name	pay fines User.
Actors	User, Database.
Preconditions	User indicate to successfully logged in
Success Scenario	1 user indicates to be logged in. 2 user indicates to click on the pay my fines. 3 user indicates to open pay my fines. 4 user indicates to enter amount user wants to pay right now.
Alternatives	1(a) User failed to logged in. 3(a)User indicate that all fine was paid. 4(a) user indicates that please enter correct amount for the pay.
Post conditions	User indicates the fine is successfully paid.

Use Case Id	US034
Use Case Name	Download E-books User.
Actors	User, Database.
Preconditions	User indicate to successfully logged in
Success Scenario	1 user indicates to be logged in. 2 user indicate to click on the particular category. 3 user indicate to choose the book from the list of the books. 4 user indicates to click on the download E-books link.
Alternatives	1(a) User failed to logged in. 3(a) User indicates to not choosing the book. 4(a)User indicates the download e-book is failed.
Post conditions	User indicate the e-book successfully downloadeds.

Use Case Id	US35
Use Case Name	View all categories User.
Actors	User, Database.
Preconditions	User indicate to successfully logged in
Success Scenario	1. User indicates to be logged in. 2. User indicates to click on all categories 3 User indicates to open all categories.
Alternatives	1(a) User failed to logged in. 3(a) User indicates to open all categories page.
Post conditions	User successfully view all categories.

Use Case Id	US036
Use Case Name	View all books from a category User.
Actors	User, Database.
Preconditions	User indicate to successfully logged in
Success Scenario	1. User indicates to be logged in. 2. User indicates to click on all books. 3 User indicates to open all books.
Alternatives	1(a) User failed to logged in. 3(a) User indicates to open all books page.
Post conditions	User successfully view all books.

13. Functional / Non-functional Requirements.

Functional Requirements.

1. Updating stock details - The stock details are updated each and every time a new stock arrives or when an item is taken out.
2. Providing Identification number - It should provide separate identification number to its members
3. Maintaining Records: It must maintain library assets, members and staffs and keep each and every detail that are relevant for running the library smoothly.
4. The software must able to provide information of the library.
5. The software must able to provide the details of book.
6. The software must able to record the book details which gave to people.
7. The software must able to find the books
8. There should be a maximum limit (3) on how many books a member can check-out
9. The system shall allow members to update their profile information.
10. The system allows online payment for late fines from the members.
11. The members can access all the online copies of books, PDFs, and magazines digitally using the online software.
12. The software must able to enter issue and return date in database.

Non-Functional Requirements

1. Performance - The Server would be able to perform desired tasks in reasonable unit of time.

2. Reliability - The Server would perform desired tasks as expected. The system does its work with more accuracy like user registration to the system, user validation and authorization, book search and issue operation, return status, and updating the database by synchronizing between database and application.

3. Security - The system would provide access to only legitimate users.

4. Scalability - The system would be scalable to support extended number of users.

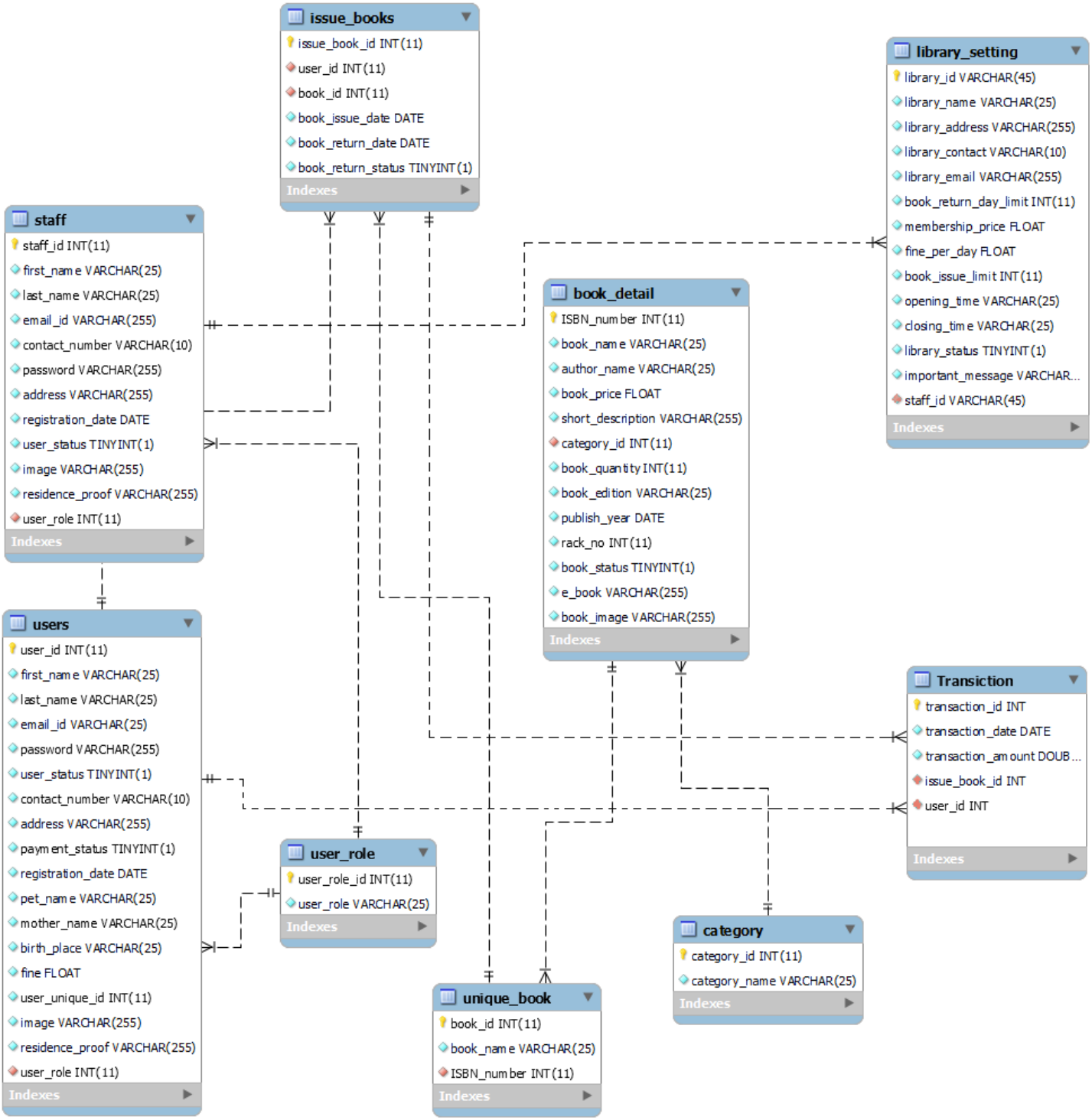
5. Ease of Use - The system would be user-friendly and would provide Graphical User Interface (GUI).

6. Maintainability - The proposed system would be easy to maintain and extend. Minor modification to the system would not cause harm to the running application.

7. Usability -The system should allow the users to access the system from the Internet using HTML or it's derivative technologies like XML/CSS. The system uses a web browser as an interface.

8. Accuracy - The system shall provide 100% access reliability.

9. Hardware Constraints - The system requires a database in order to store persistent data.

10. Backup & Disaster recovery - The database may get crashed at any certain time due to virus or operating system failure. Therefore, it is required to take the database backup.

14. Database Schema.