

A PROJECT ON
“SALON MANAGEMENT SYSTEM”

SUBMITTED IN
PARTIAL FULFILLMENT OF THE REQUIREMENT
FOR THE COURSE OF
DIPLOMA IN ADVANCED COMPUTING FROM CDAC



SUNBEAM INSTITUTE OF INFORMATION TECHNOLOGY
Hinjawadi

SUBMITTED BY:

Tejashree Shinde
Amisha Deshmukh
Saloni Lende
Rushikesh Panchal

UNDER THE GUIDENCE OF:

Mrs. Pooja Jaiswal
Faculty Member
Sunbeam Institute of Information Technology, PUNE.

ACKNOWLEDGEMENT

A project usually falls short of its expectation unless aided and guided by the right persons at the right time. We avail this opportunity to express our deep sense of gratitude towards Mr. Nitin Kudale (Center Coordinator, SIIT, Pune) and Mr. Yogesh Kolhe (Course Coordinator, SIIT ,Pune) .

We are deeply indebted and grateful to them for their guidance, encouragement and deep concern for our project. Without their critical evaluation and suggestions at every stage of the project, this project could never have reached its present form.

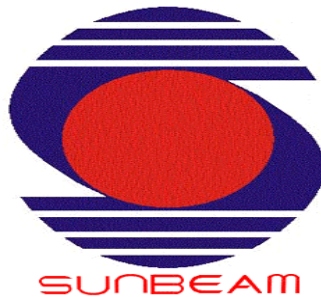
Last but not the least we thank the entire faculty and the staff members of Sunbeam Institute of Information Technology, Pune for their support.

Tejashree Shinde
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92695 PG-DAC
SIIT Pune

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CERTIFICATE

This is to certify that the project work under the title ‘Salon Management System’ is done by Rushikesh Panchal in partial fulfillment of the requirement for award of Diploma in Advanced Computing Course.

Project Guide
Mrs. Pooja Jaiswal

Course Coordinator
Mr. Yogesh Kolhe

Date:

1. INTRODUCTION TO PROJECT

The web-based salon management system project is an attempt to simulate the core operations of a modern salon business. The system enables customers to search for nearby salons, explore available services, view prices, and book appointments for their preferred date and time.

The system provides a Quick Browse facility that allows users to view salons and services without logging in. However, to book an appointment, the user must create an account and log in.

The system allows customers to search for salons based on location, service type, and availability. It displays detailed information such as salon name, services offered, pricing, ratings, and time slots. After selecting a service, the system checks for slot availability. If a slot is available, the customer can proceed with booking; otherwise, the system prompts the user to select another time or salon.

To complete a booking, the system asks the customer to enter personal details such as name, contact information, and payment details. After validating the information, the system confirms the appointment and updates both the salon's database and the customer's booking records, ensuring smooth and efficient salon operations.

2. REQUIREMENTS

2.1 FUNCTIONAL REQUIREMENTS

2.1 User Account

The Salon Management System supports three types of users:

1. Customer
2. Salon Owner
3. Admin

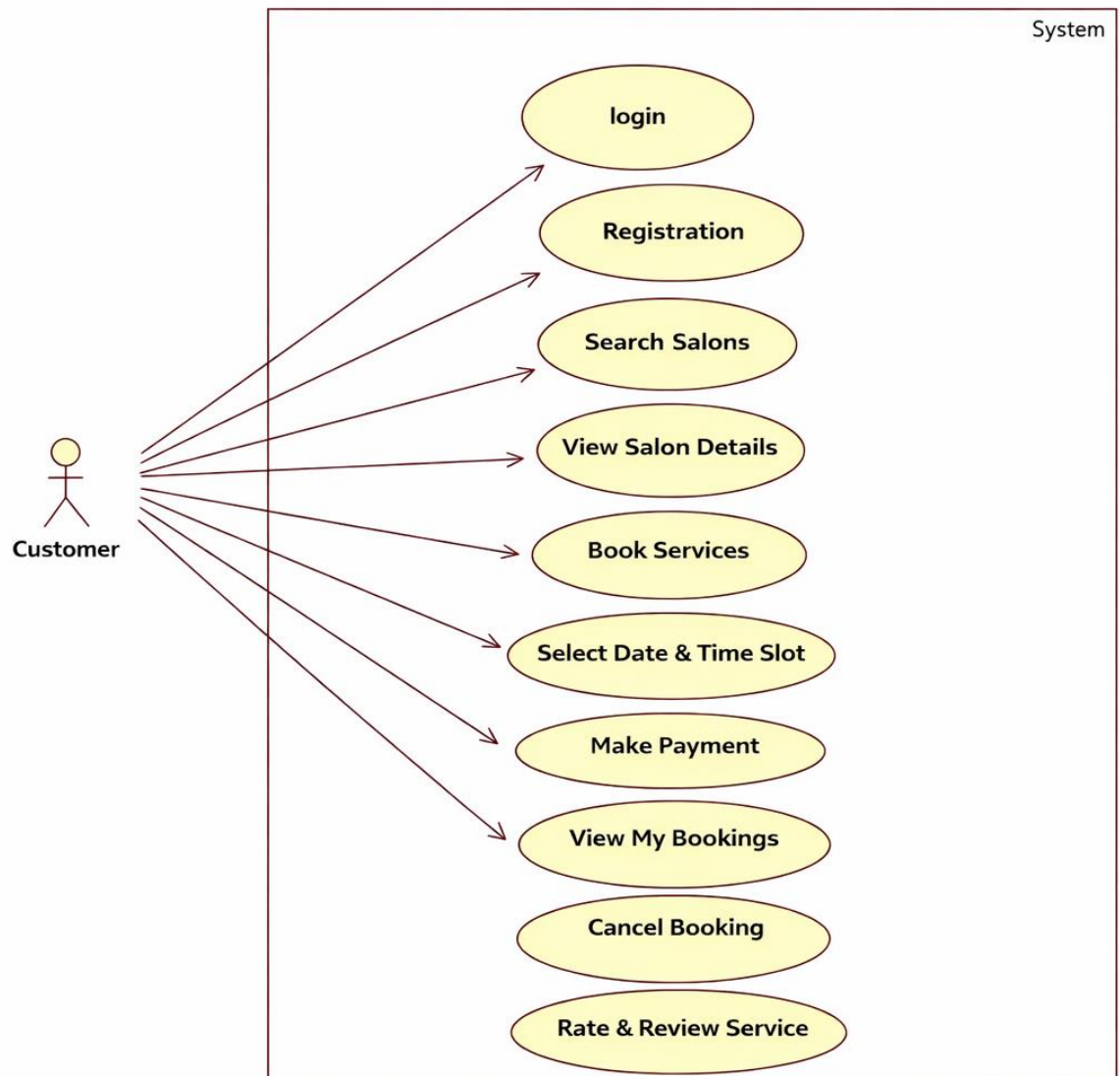
Each user has a defined role with specific permissions in the system. Access to functionalities is strictly based on the user's role and authentication status. Authentication is implemented using JWT (JSON Web Tokens) to ensure security.

- New users can register as customers or salon owners.
- Existing users can log in using email and password.
- Admin credentials are pre-stored in the database.
- Public routes allow signup and login without authentication.
- Protected routes require a valid JWT token.

Registration and Profile Creation:

Customers and salon owners must register before using the system's features. Required information includes personal details, contact info, and salon details for owners. Profiles are stored securely in the database. Admin profiles are created and maintained directly by the system administrator.

4. 2.1.1 Customer



The customer is the primary user who books salon services. Customers can use the system as guests or registered users.

Customer Functionalities:

- **Browse Available Services:**

Customers can view all services offered by different salons, including service type, duration, price, and salon details. Guest users can browse, but cannot book services.

- **Book Appointments:**

Registered customers can select a service, choose a date and time, and confirm the booking. The system stores appointment details and sends notifications.

- **Manage Bookings:**

Customers can view upcoming appointments, modify or cancel bookings (subject to salon policies), and track service status.

- **Make Payments:**

Secure payment functionality is provided for confirmed bookings. Payment history is stored for reference.

- **View Booking History:**

Customers can access all past and current bookings, including service details, payment status, and salon information.

- **Track Appointment Status:**

Customers receive real-time updates on appointment confirmations and completion.

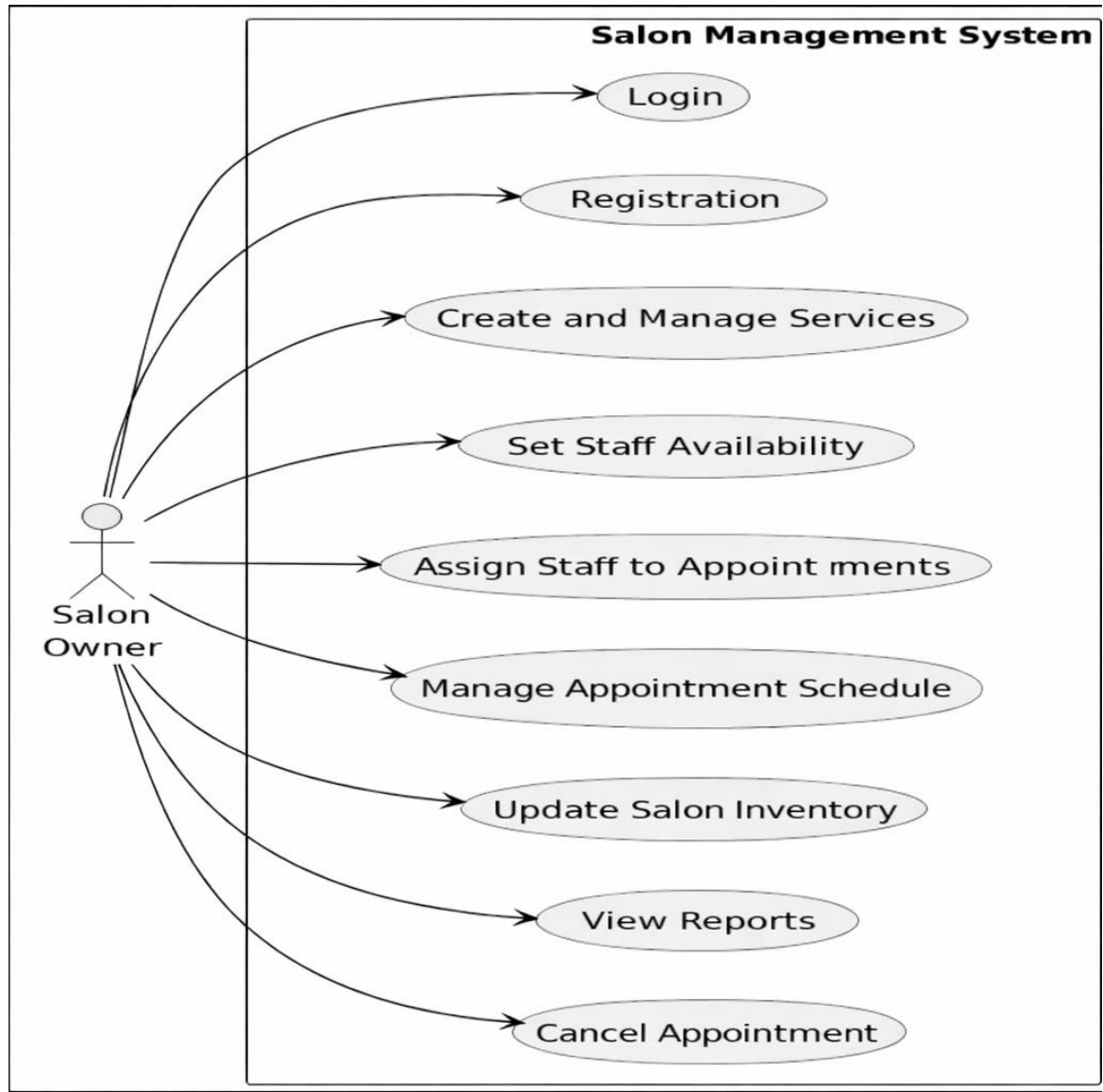
- **Guest Access:**

Guests can browse services without registration but cannot book appointments, make payments, or track services.

- **Guest Mode for Registered Users:**

Registered customers may browse services in guest mode without booking.

5. 2.1.2 Salon Owner



Salon owners manage their salon services and appointments. Owners must register and log in to access the dashboard.

Owner Functionalities:

- **Create and Manage Services:**

Owners can create new services by specifying service name, duration, price, and description. Existing services can be updated as needed.

- **Manage Appointments:**

Owners can view daily bookings, confirm or cancel appointments, and update service completion status.

- **View Customer Details:**

Owners can see customer information related to their bookings, including contact details and service history.

- **Manage Availability:**

Owners can define working hours, holidays, and available time slots to control appointment scheduling.

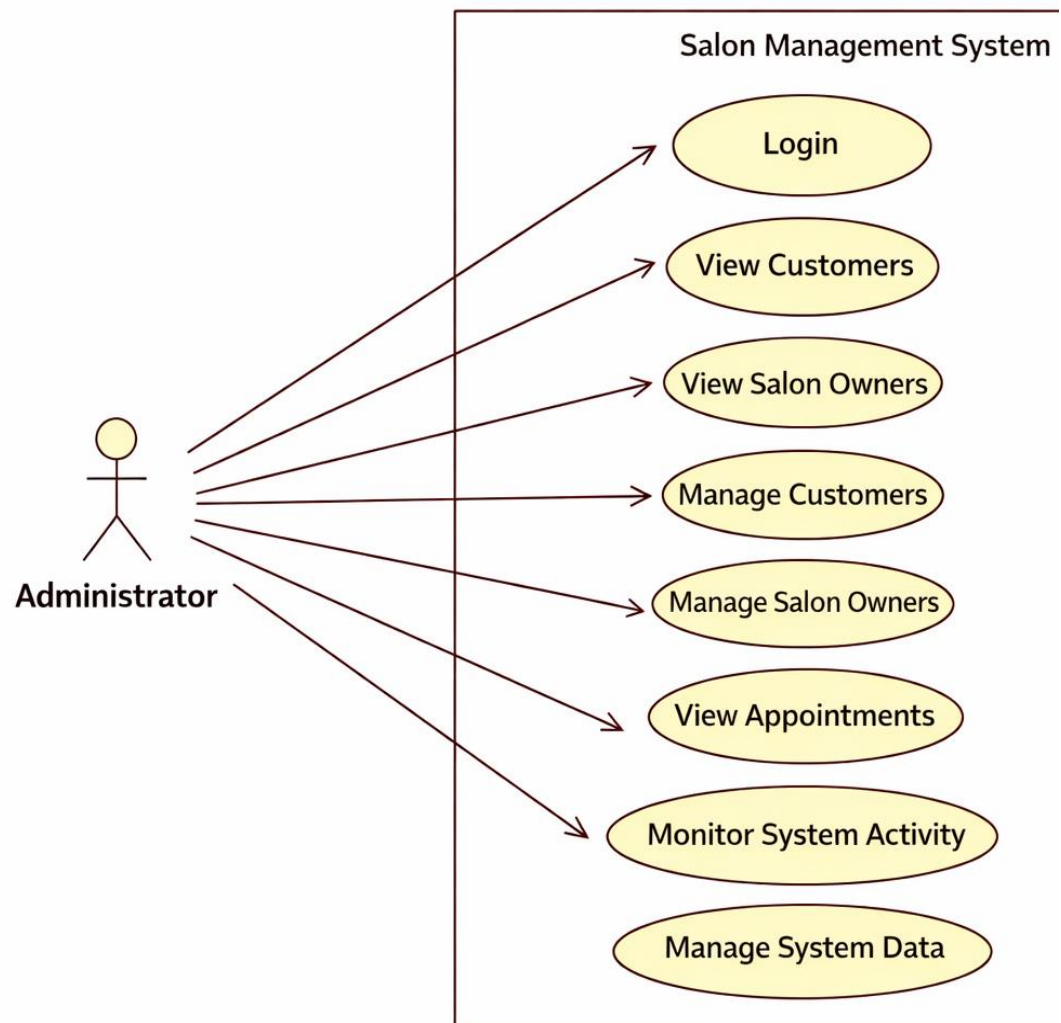
- **View Booking History:**

Owners can track completed and cancelled appointments, including payment confirmations, for record-keeping and analytics.

- **Owner Authentication and Access Control:**

Owners can only access data related to their salon. They cannot access other owners' data or system-level configurations.

6. 2.1.3 Admin



The admin supervises and monitors the entire Salon Management System. Admin access is secure and role-based.

Admin Functionalities:

- **Login:**
Admins log in using secure credentials to access the administrative dashboard.
- **View Users:**
Admins can see all registered customers and salon owners, including details such as name, contact information, and account status.

- **Manage Customers:**

Admins can monitor customer accounts, update details, and resolve issues.

- **Manage Salon Owners:**

Admins can verify owner profiles, monitor activities, and enforce compliance with system policies.

- **View Bookings:**

Admins can access all bookings in the system, including service, customer, and salon details.

- **Monitor System Activity:**

Admins can track user logins, bookings, cancellations, and other system events to ensure reliability.

- **Manage System Data:**

Admins maintain system configurations, service categories, and records to ensure data consistency and smooth operation.

- **Role and Access Control:**

Admin actions are restricted to administrative functions and do not interfere with day-to-day customer or owner operations.

2.2 NON-FUNCTIONAL REQUIREMENTS

2.2.1 Interface

The system provides a mobile-friendly and responsive interface built using ReactJS for web and optionally React Native for mobile. The design is simple, intuitive, and easy to navigate for all user types.

2.2.2 Performance

- Concurrent Users:

The system can efficiently handle at least 1000 concurrent users, including customers browsing services, owners managing appointments, and admins monitoring activities.

- Booking Processing:

Appointments, payments, and service updates are processed efficiently, ensuring data consistency even during temporary server issues.

2.2.3 Constraints

- Active internet connectivity is required.
- Backend server must be available.
- Compatible with modern web browsers and mobile platforms.
- Optimized for high transaction load while maintaining acceptable response times.

2.2.4 Other Requirements

- Hardware Interfaces:

- Customer/Owner devices: Android/iOS smartphone or web browser
- Minimum 2 GB RAM
- Internet connectivity (Wi-Fi or Mobile Data)
- Backend server: Processor equivalent to Intel i3+, 4 GB RAM, sufficient storage

- Software Interfaces:

- Frontend: ReactJS / React Native
- Backend: Spring Boot 4, Java 17 (or Node.js/Express if preferred)
- Database: MySQL
- Operating Systems: Windows, Linux, Android, iOS
- API Communication: RESTful APIs

3. DESIGN

3.1 Database Design

The following table structures depict the database design.

Table1: User Info

Key Type / Constraint	Column Name	Data Type	Length	Allow Null (1=Yes, 0=No)
3	user_id	Number	4	0
0	created_at	Datetime	6	1
0	updated_at	Datetime	6	1
1	email	Varchar	255	0
0	first_name	Varchar	100	1
0	last_name	Varchar	100	1
0	password	Varchar	255	0
0	phone	Varchar	20	0
0	profile_image	Varchar	255	1
0	is_active	Bit	1	1
0	user_role	Enum	—	1

Table4: Admin

Key Type / Constraint	Column Name	Data Type	Length	Allow Null (1=Yes, 0=No)
3	admin_id	Number	4	0
0	created_at	Datetime	6	1
0	updated_at	Datetime	6	1
1	user_id	Number	4	0

Table3: Owner

Key Type / Constraint	Column Name	Data Type	Length	Allow Null (1=Yes, 0=No)
3	owner_id	Number	4	0
0	created_at	Datetime	6	1
0	updated_at	Datetime	6	1
1	user_id	Number	4	0

Table4: Salon

Key Type / Constraint	Column Name	Data Type	Length	Allow Null (1=Yes, 0=No)
3	salon_id	Number	4	0
0	created_at	Datetime	6	1
0	updated_at	Datetime	6	1
1	owner_id	Number	4	0
0	name	Varchar	255	0
0	address	Varchar	500	1
0	city	Varchar	100	1
0	state	Varchar	100	1
0	zipcode	Varchar	20	1
0	phone	Varchar	20	1

Key Type / Constraint	Column Name	Data Type	Length	Allow Null (1=Yes, 0=No)
0	email	Varchar	255	1
0	logo_image	Varchar	255	1

Table5: ServiceCategory

Key Type / Constraint	Column Name	Data Type	Length	Allow Null (1=Yes, 0=No)
3	category_id	Number	4	0
0	created_at	Datetime	6	1
0	updated_at	Datetime	6	1
0	name	Varchar	255	0
0	description	Varchar	500	1

Table6: Service

Key Type / Constraint	Column Name	Data Type	Length	Allow Null (1=Yes, 0=No)
3	service_id	Number	4	0
0	created_at	Datetime	6	1
0	updated_at	Datetime	6	1
1	category_id	Number	4	0
1	salon_id	Number	4	0
0	name	Varchar	255	0

Key Type / Constraint	Column Name	Data Type	Length	Allow Null (1=Yes, 0=No)
0	description	Varchar	500	1
0	price	Decimal	10,2	0
0	duration_minutes	Number	3	0
0	is_active	Bit	1	1

Table7: Salon_Working_Days

Key Type / Constraint	Column Name	Data Type	Length	Allow Null (1=Yes, 0=No)
3	working_day_id	Number	4	0
0	created_at	Datetime	6	1
0	updated_at	Datetime	6	1
1	salon_id	Number	4	0
0	day_of_week	Varchar	20	0
0	open_time	Time	—	0
0	close_time	Time	—	0
0	is_closed	Bit	1	1

Table 8 : Availability_Slot

Key Type / Constraint	Column Name	Data Type	Length	Allow Null (1=Yes, 0=No)
3	slot_id	Number	4	0
0	created_at	Datetime	6	1
0	updated_at	Datetime	6	1
1	service_id	Number	4	0
1	salon_id	Number	4	0
0	date	Date	—	0
0	start_time	Time	—	0
0	end_time	Time	—	0

Table9: Notification

Key Type / Constraint	Column Name	Data Type	Length	Allow Null (1=Yes, 0=No)
3	notification_id	Number	4	0
0	created_at	Datetime	6	1
0	updated_at	Datetime	6	1
1	user_id	Number	4	0
0	title	Varchar	255	0
0	message	Varchar	500	0
0	is_read	Bit	1	1
0	type	Enum	—	1

Table10: Review

Key Type / Constraint	Column Name	Data Type	Length	Allow Null (1=Yes, 0=No)
3	review_id	Number	4	0
0	created_at	Datetime	6	1
0	updated_at	Datetime	6	1
1	user_id	Number	4	0
1	salon_id	Number	4	0
0	rating	Decimal	2,1	0
0	comment	Varchar	500	1
0	is_visible	Bit	1	1

4. CODING STANDARDS IMPLEMENTED

Naming and Capitalization

Below summarizes the naming recommendations for identifiers in Pascal casing is used mainly (i.e. capitalize first letter of each word) with camel casing (capitalize each word except for the first one) being used in certain circumstances.

Identifier	Case	Examples	Additional Notes
Class	Pascal	Person, BankVault, SSMMessage, Dept	Class names should be based on "objects" or "real things" and should generally be nouns. No ‘_’ signs allowed. Do not use type prefixes like ‘C’ for class.
Method	Camel	getDetails, updateStore	Methods should use verbs or verb phrases.
Parameter	Camel	personName, bankCode	Use descriptive parameter names. Parameter names should be descriptive enough that the name of the parameter and its type can be used to determine its meaning in most scenarios.

Interface	Pascal with "I" prefix	Disposable	Do not use the ' _ ' sign
Property	Pascal	ForeColor, BackColor	Use a noun or noun phrase to name properties.
Associated private member variable	_camelCase	_foreColor, _backColor	Use underscore camel casing for the private member variables
Exception Class	Pascal with "Exception" suffix	WebException,	

Comments

- Comment each type, each non-public type member, and each region declaration.
- Use end-line comments only on variable declaration lines. End-line comments are comments that follow code on a single line.
- Separate comments from comment delimiters (apostrophe) or // with one space.
- Begin the comment text with an uppercase letter.
- End the comment with a period.
- Explain the code; do not repeat it.

5. TEST REPORT

Another group called Linux did the testing and the report of the testing is given hereunder.
GENERAL TESTING:

SR - NO	TEST CASE	EXPECTED RESULT	ACTUAL RESULT	ERROR MESSAGE
1	Register Page	User should be redirected to login page after successful registration	OK	Nothing
2	Login Page	Pop-up message appears for invalid credentials	OK	Please enter valid email and password
3	Reset Password	Only user's password should be reset	OK	Nothing
4	View Services	Displays all available salon services	OK	Nothing
5	Book Appointme nt	All required fields must be filled to submit booking	OK	Nothing
6	Check Login Status	System checks whether user is logged in or not	OK	Nothing
7	Add Salon (Owner)	Salon details added after approval	OK	Nothing
8	View Appointme nts	Displays all booked appointments	OK	Nothing
9	Save Appointme nt Details	Appointment details stored in database	OK	Nothing
10	Cancel Appointme nt	Appointment should be cancelled successfully	OK	Nothing
11	View Transaction s	Displays all completed transactions	OK	Nothing
12	Logout	User logged out from the system	OK	Nothing

SR - NO	TEST CASE	EXPECTED RESULT	ACTUAL RESULT	ERROR MESSAGE
1	Register Page	User should be redirected to login page after successful registration	OK	Nothing
2	Login Page	Pop-up message appears for invalid credentials	OK	Please enter valid email and password

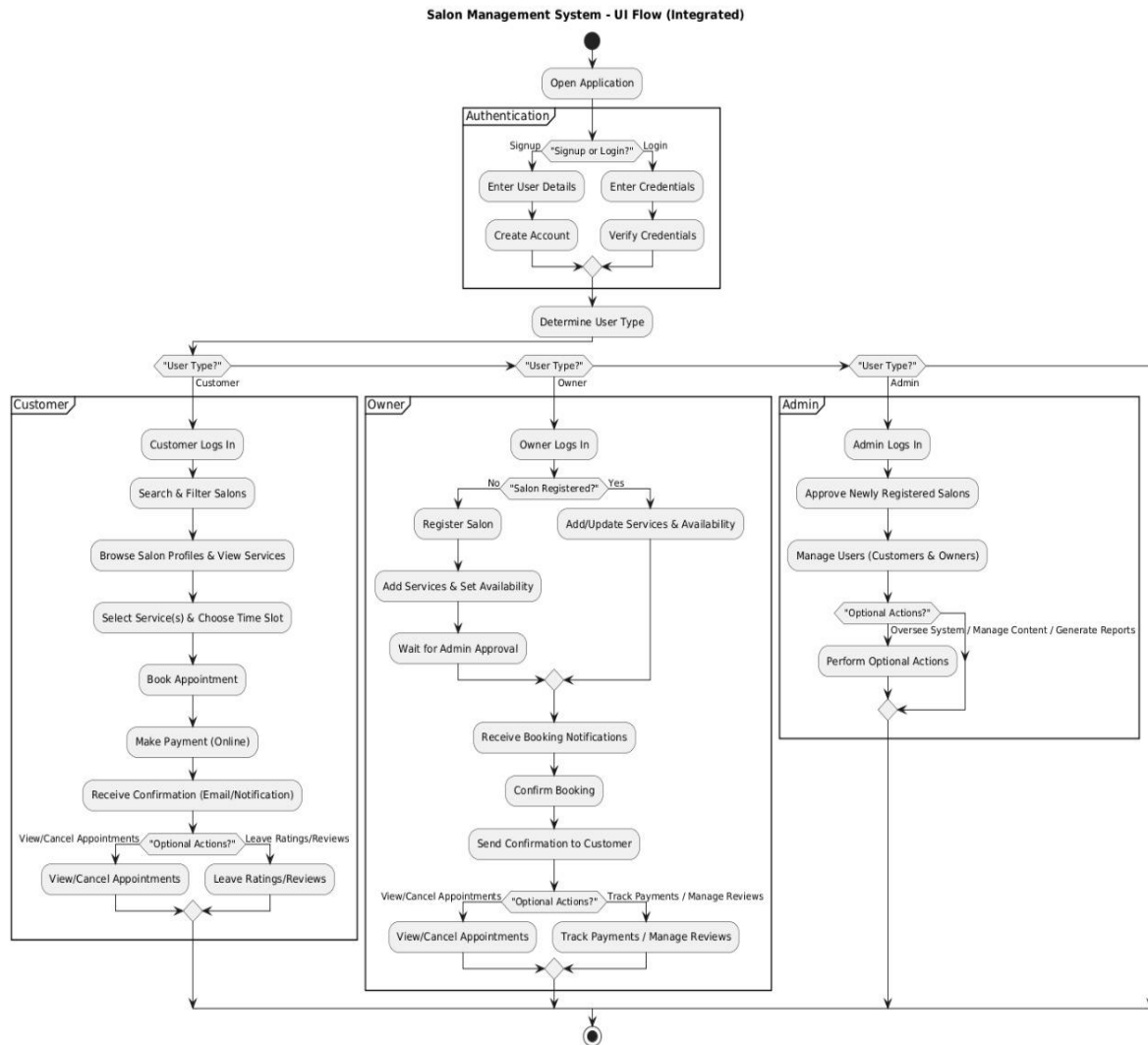
6. PROJECT MANAGEMENT RELATED STATISTICS

DATE	WORK PERFORMED	SDLC Phase	Additional Notes
JAN 15, 2026	Project allotment and initial requirement discussion	Feasibility Study	Project topic finalized and objectives discussed.
JAN 16, 2026	Requirement gathering and stakeholder analysis	Requirement Analysis (Elicitation)	Functional requirements for Admin, Owner, and Customer identified.
JAN 17, 2026	Preparation and validation of SRS document	Requirement Analysis	SRS reviewed and finalized.
JAN 18, 2026	Designing use case diagrams and system flow	Requirement Analysis & Design	Use cases for booking, approval, and management designed.
JAN 19, 2026	ER Diagram, Class Diagram, and Database Design	Design Phase	Database schema finalized for salon management system.
JAN 20, 2026	Backend architecture and business logic design	Design Phase	Spring Boot backend structure planned.
JAN 21, 2026	Backend development started	Coding Phase	Core APIs implemented for user authentication and role management.
JAN 22, 2026	Frontend development started	Coding Phase	React components created for login, registration, and dashboard.
JAN 23, 2026	Continued backend and frontend development	Coding Phase & Unit Testing	Appointment booking and service management modules implemented.

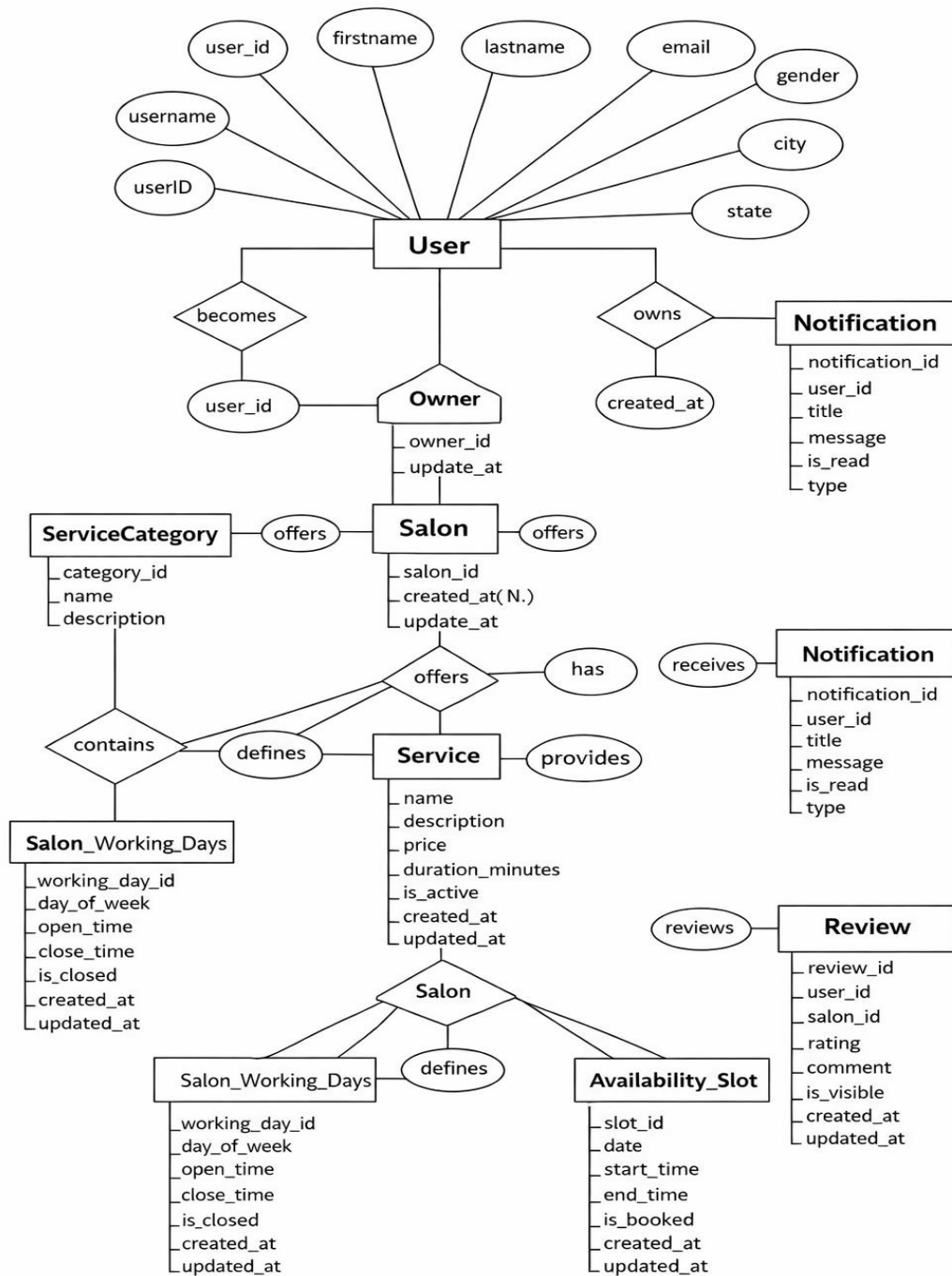
JAN 24, 2026	Integration of frontend with backend APIs	Coding Phase & Unit Testing	Data flow tested between React frontend and Spring Boot backend.
JAN 25, 2026	Validation checks and error handling	Coding Phase & Unit Testing	Input validation and JWT authentication checks added.
JAN 26, 2026	Module testing	Testing Phase (Module Testing)	Individual modules tested and verified.
JAN 27, 2026	System testing and bug identification	Testing Phase (System Testing)	Bugs identified during end-to-end testing.
JAN 28–30, 2026	Debugging and issue resolution	Debugging	All identified bugs fixed.

Appendix A

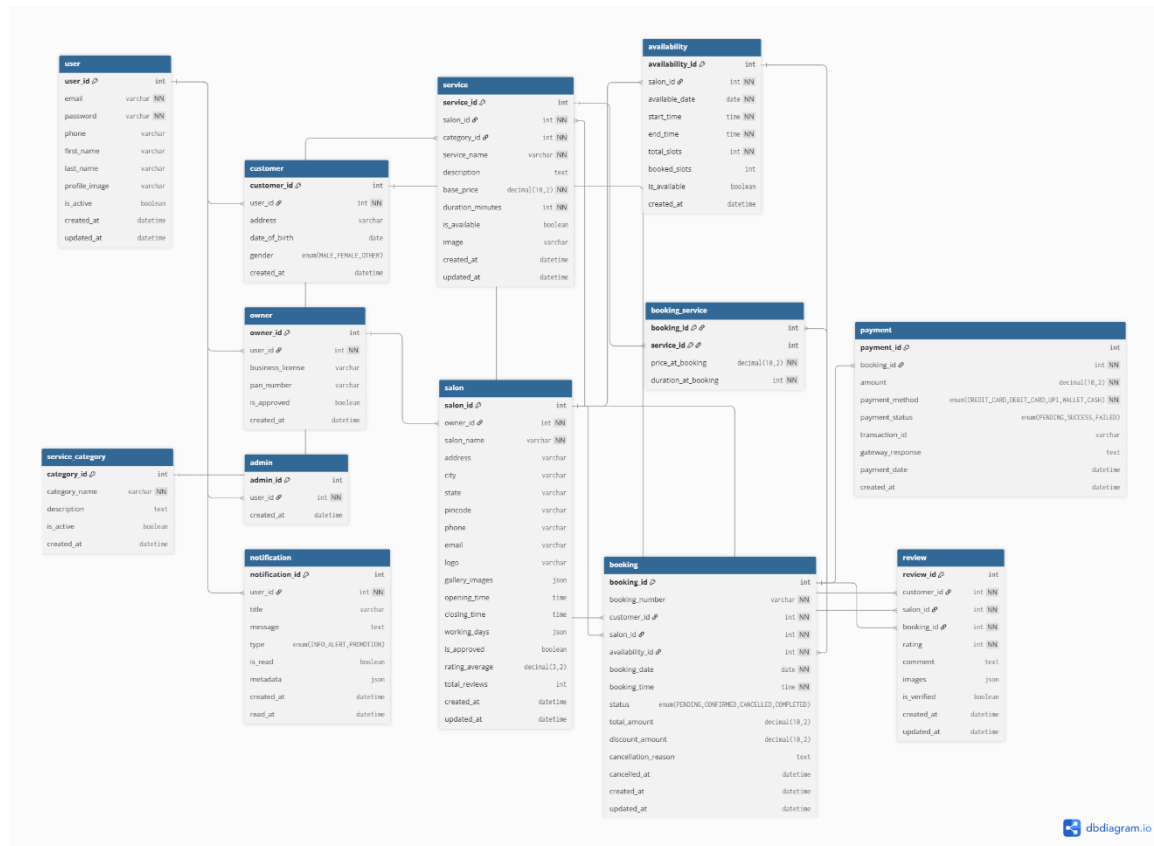
UI flow Diagram



ER Diagram:

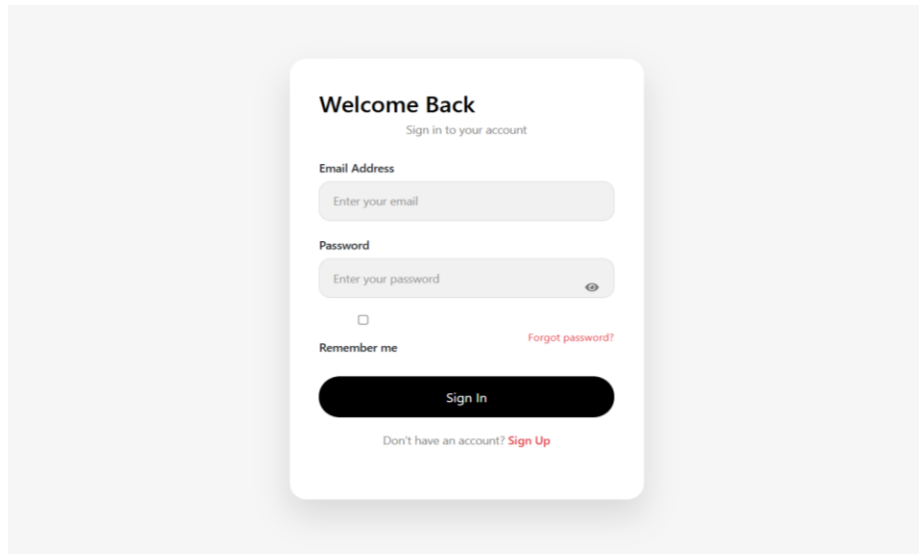


Class Diagram:



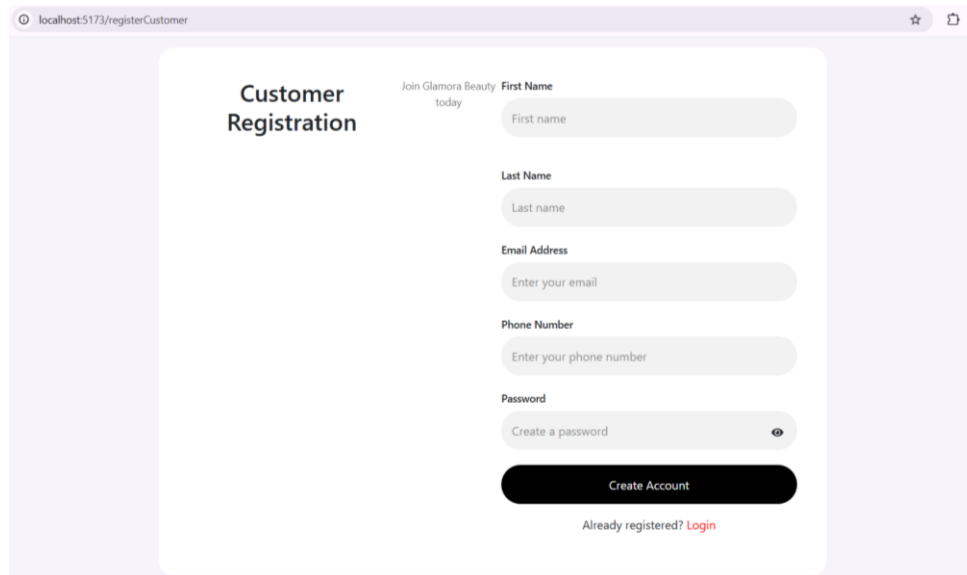
Appendix B

Login Page:



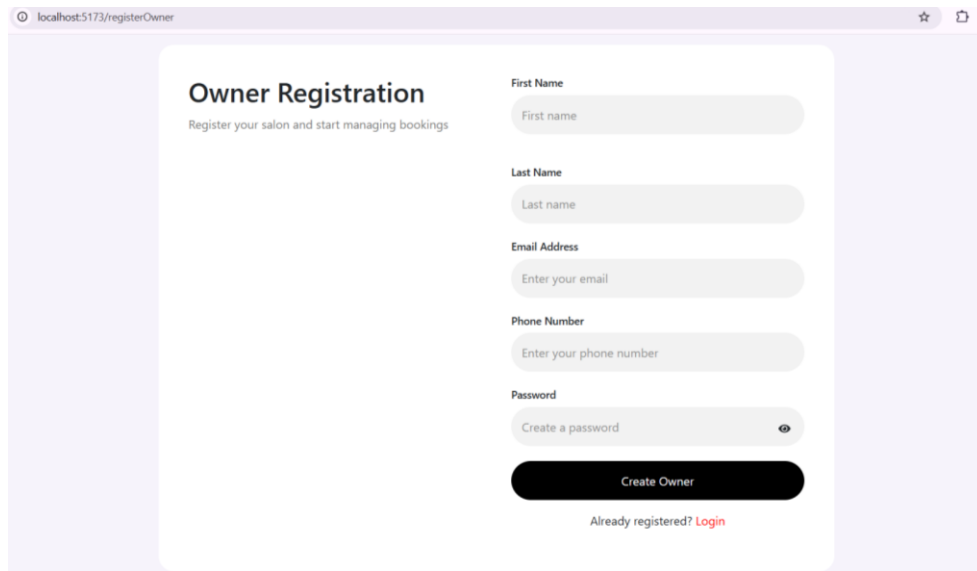
A login page mockup with a white card on a light gray background. The card has a title 'Welcome Back' and a subtitle 'Sign in to your account'. It contains two input fields: 'Email Address' with placeholder 'Enter your email' and 'Password' with placeholder 'Enter your password' and an eye icon. Below the password field is a checkbox and the text 'Remember me'. To the right of the checkbox is a link 'Forgot password?'. At the bottom of the card is a black button labeled 'Sign In' and a link 'Don't have an account? Sign Up'.

Customer Registration:



A customer registration page mockup shown in a browser window. The browser address bar shows 'localhost:5173/registerCustomer'. The page has a light purple background. On the left, the text 'Customer Registration' is displayed. On the right, there is a white card with the text 'Join Glamora Beauty today' and a series of input fields: 'First Name' (placeholder 'First name'), 'Last Name' (placeholder 'Last name'), 'Email Address' (placeholder 'Enter your email'), 'Phone Number' (placeholder 'Enter your phone number'), and 'Password' (placeholder 'Create a password' with an eye icon). Below these fields is a black button labeled 'Create Account'. At the bottom of the card is a link 'Already registered? Login'.

Owner Registration:



A screenshot of a web browser showing a registration form titled "Owner Registration". The browser's address bar displays "localhost:5173/registerOwner". The form is set against a light purple background. It includes input fields for "First Name", "Last Name", "Email Address", "Phone Number", and "Password". Each field has a placeholder text: "First name", "Last name", "Enter your email", "Enter your phone number", and "Create a password" respectively. A black "Create Owner" button is positioned below the fields. At the bottom, a link "Already registered? Login" is shown in red text.

localhost:5173/registerOwner

Owner Registration

Register your salon and start managing bookings

First Name
First name

Last Name
Last name

Email Address
Enter your email

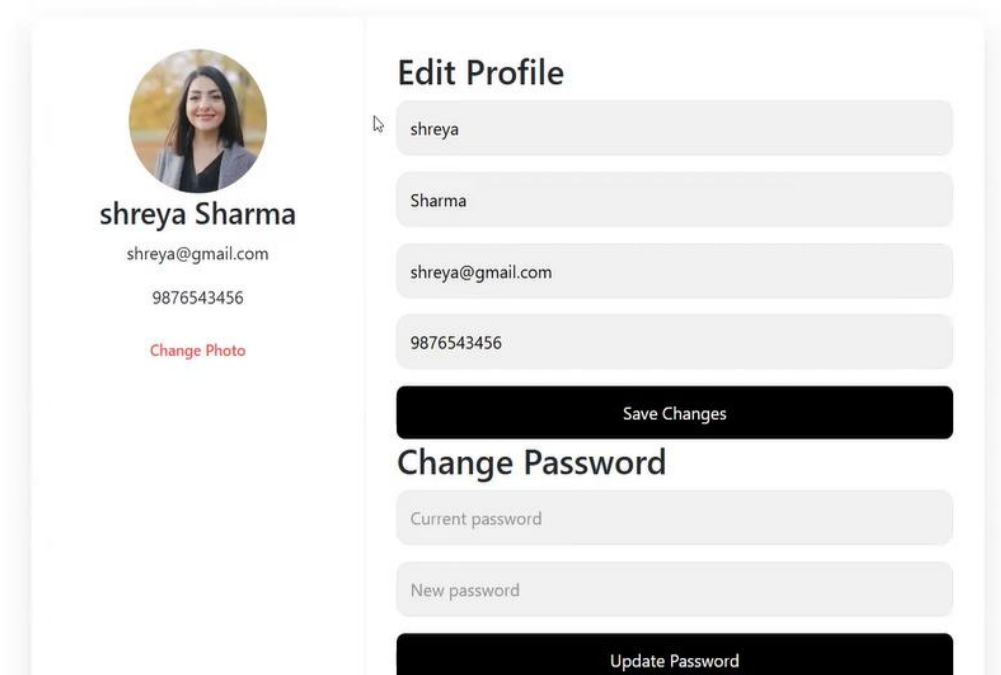
Phone Number
Enter your phone number

Password
Create a password

Create Owner

Already registered? [Login](#)

Profile Page:



A screenshot of a user profile page. On the left, there is a circular profile picture of a woman, the name "shreya Sharma", the email "shreya@gmail.com", and the phone number "9876543456". Below this is a red "Change Photo" link. On the right, under the heading "Edit Profile", are input fields for "shreya", "Sharma", "shreya@gmail.com", and "9876543456". A black "Save Changes" button is below these fields. Under the heading "Change Password", there are input fields for "Current password" and "New password", followed by a black "Update Password" button.

shreya Sharma

shreya@gmail.com

9876543456

[Change Photo](#)

Edit Profile

shreya

Sharma

shreya@gmail.com

9876543456

Save Changes

Change Password

Current password

New password

Update Password

Admin Dashboard :

The screenshot shows the Admin Dashboard in a web browser. The left sidebar has a dark theme with the following menu items: Admin Panel, Customers, Owners, Salons, and Logout. The main content area displays a grid of salon cards. Each card shows the salon's name, address, hours, rating, and owner. Below the grid, there are two owner detail cards for 'Saloni' and 'owner', each with a status (Approved or Pending) and buttons to Approve or Reject.

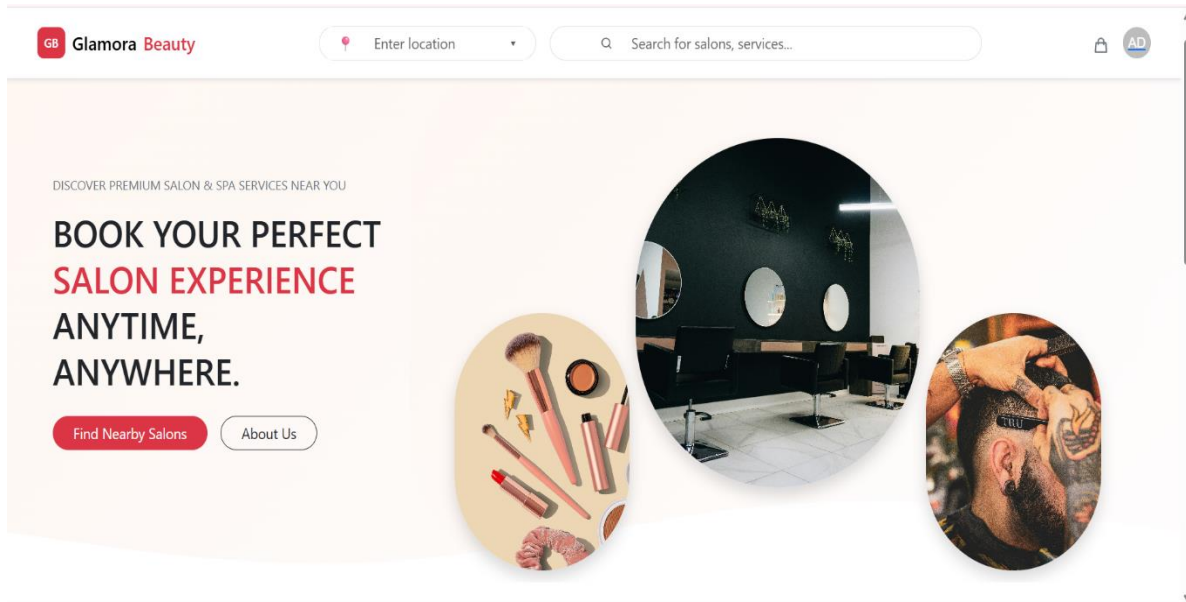
Salon Name	Address	Hours	Rating	Owner
123 Main Street, Downtown, -	123 Main Street, Downtown, -	-	0.0 (0 reviews)	Super Admin
456 Oak Avenue, Mall Area, -	456 Oak Avenue, Mall Area, -	-	0.0 (0 reviews)	Super Admin
789 Park Lane, Uptown, -	789 Park Lane, Uptown, -	-	0.0 (0 reviews)	Super Admin

Owner Name	Address	Hours	Rating	Status	Action
Saloni	mg road, Pune, maharashtra - 411057	08:20 - 20:14	4.0 (1 reviews)	Approved	
owner	Pune, pune, maharashtra - 411057	10:05 - 20:29	0.0 (0 reviews)	Pending	Approve, Reject

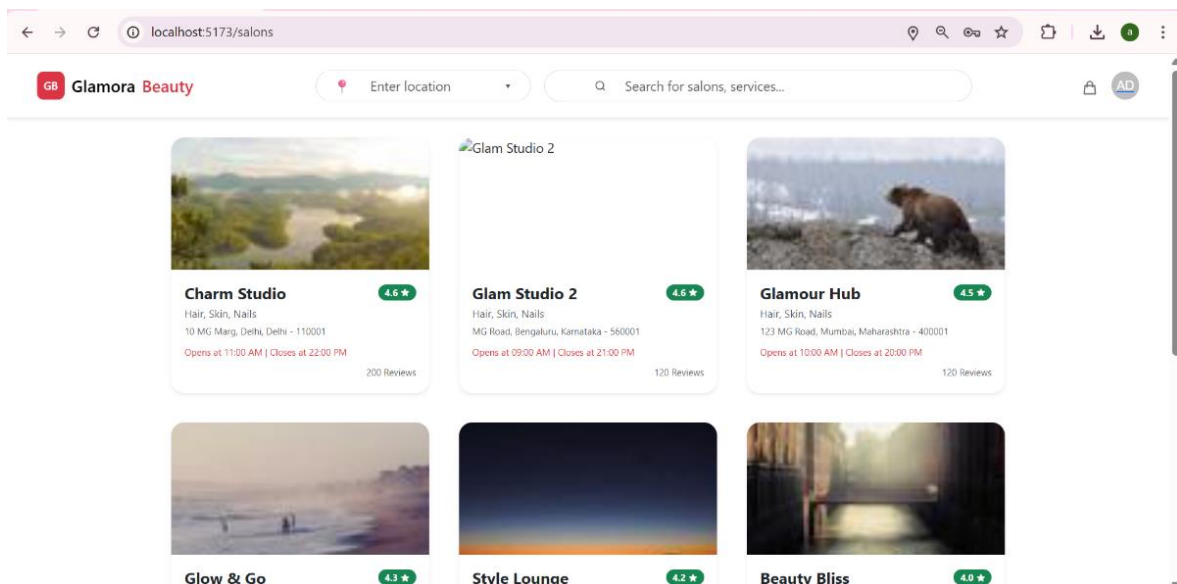
The screenshot shows the Owner Management section in the Admin Dashboard. The left sidebar is the same as the previous screenshot. The main content area has a title 'Owner Management' and a subtitle 'Approve or reject salon owner registrations'. Below this is a table with columns for Name, Email, Status, and Action. The table lists two owners: 'Saloni Lende' (Approved) and 'owner test' (Pending). The 'owner test' row has buttons to Approve or Reject.


Name	Email	Status	Action
Saloni Lende	salonilende@gmail.com	Approved	
owner test	owner@gmail.com	Pending	Approve, Reject

Customer Pages:



Salon List Page:




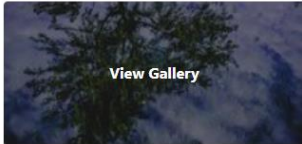


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4.5 ★ (120)

CATEGORIES


Haircut

Facial

Manicure

Hair

Skin




Basic Haircut

Simple haircut for men

₹300 30 mins

Add




Stylish Haircut

Trendy haircut

₹500 45 mins

Add




Basic Haircut

Simple haircut for men

₹300 30 mins

Add




Stylish Haircut

Trendy haircut

₹500 45 mins

Add




Basic Haircut

Simple haircut for men

₹300 30 mins

Add



Stylish Haircut

Trendy haircut

₹500 45 mins

Add

Bookings Page:

Owner Panel

Manage your salons

Dashboard

My Salons

Add New Salon

Salon Bookings

My Profile

Logout

Salon Bookings

Manage all bookings for your salons

Refresh

Search customers, services, or categories...

All Status

2 Total Bookings

₹2000.00 Total Revenue

2 Confirmed

0 Pending

Booking #2

CONFIRMED

Customer Details

Name: customer test

customer@gmail.com

9876543210

Service Details

haircut (Hair)

Feb 4, 2026

10:05:00 - 10:55:00

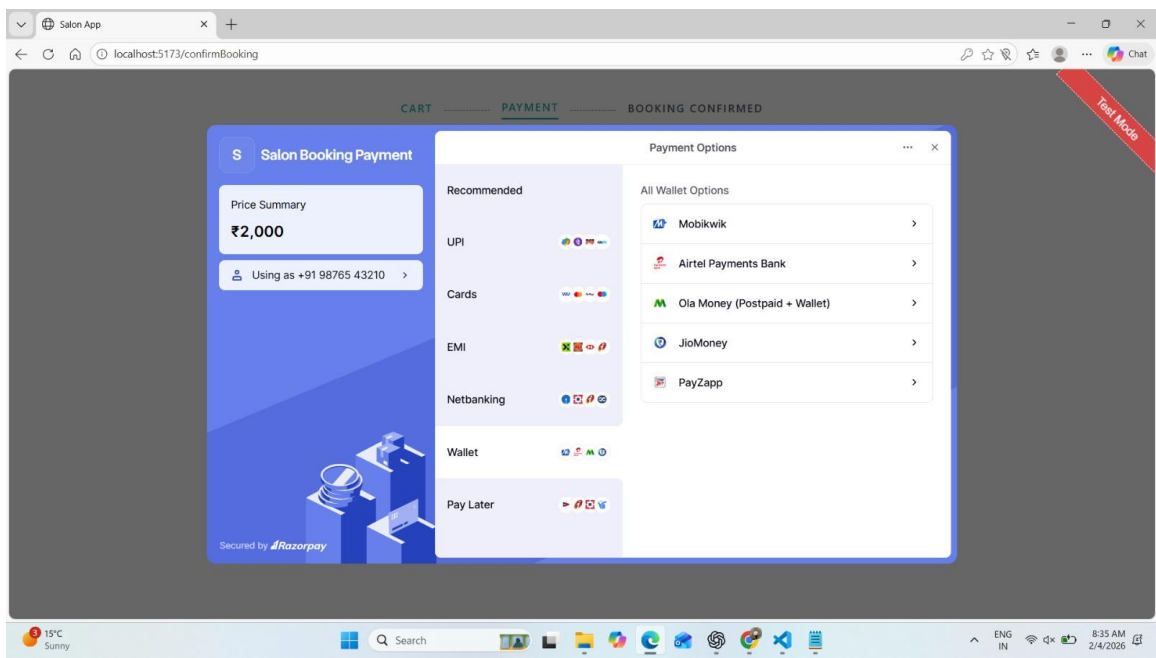
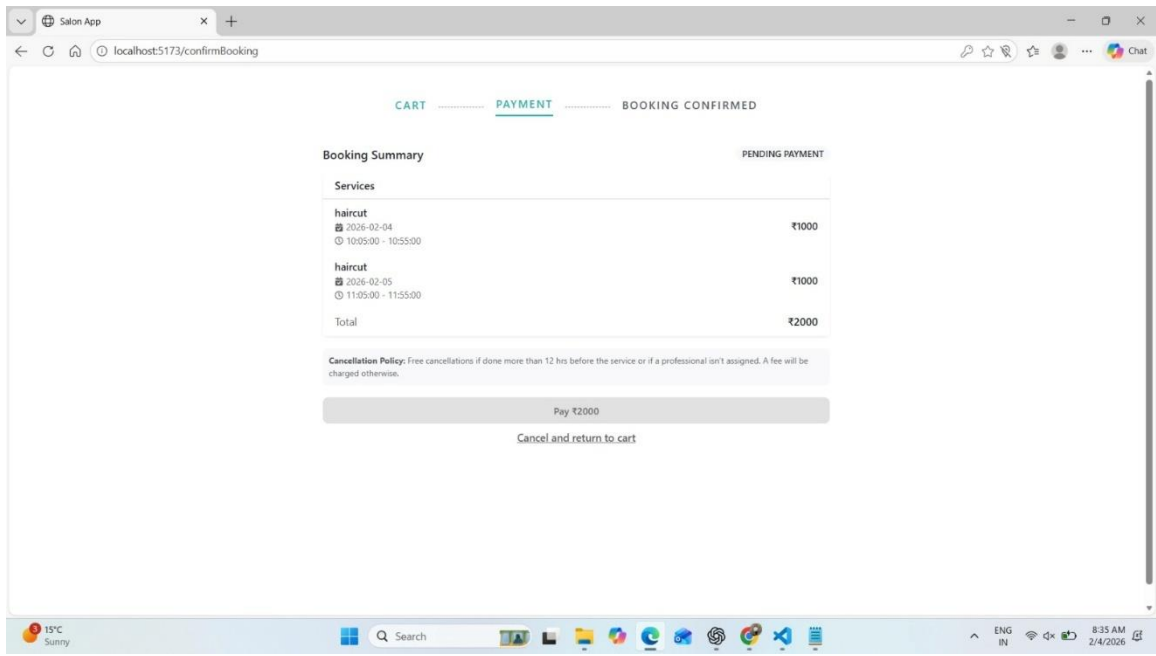
₹1000

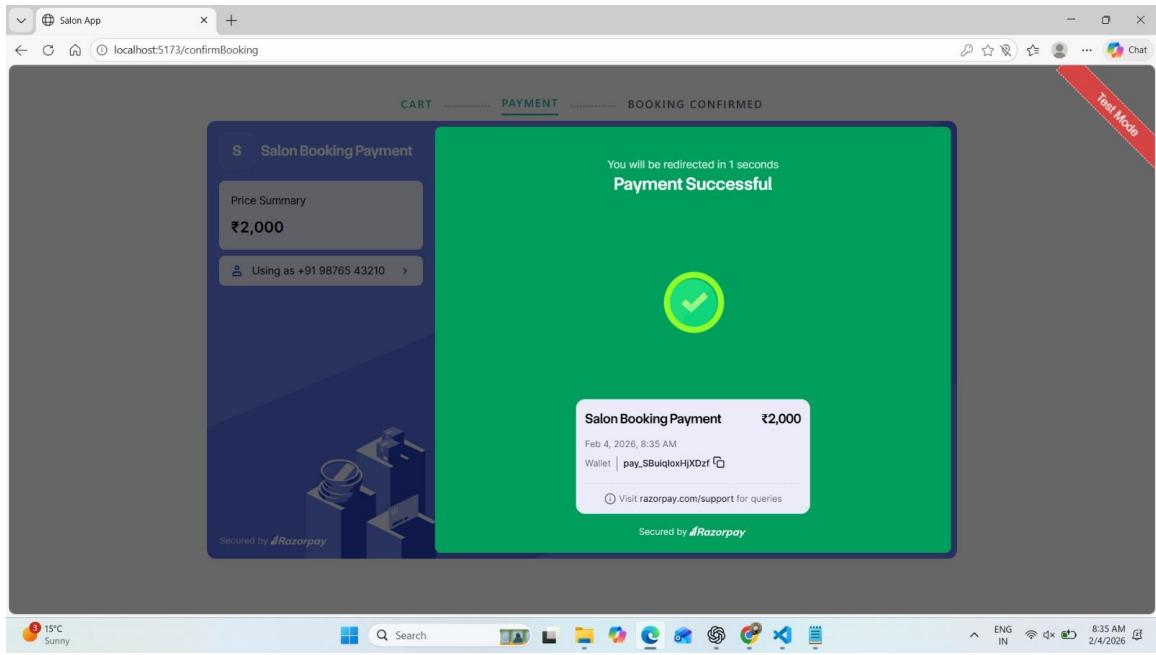
Booking Date: Feb 4, 2026, 08:34 AM

Total Amount: ₹2000

- 32 -

Payment Page:

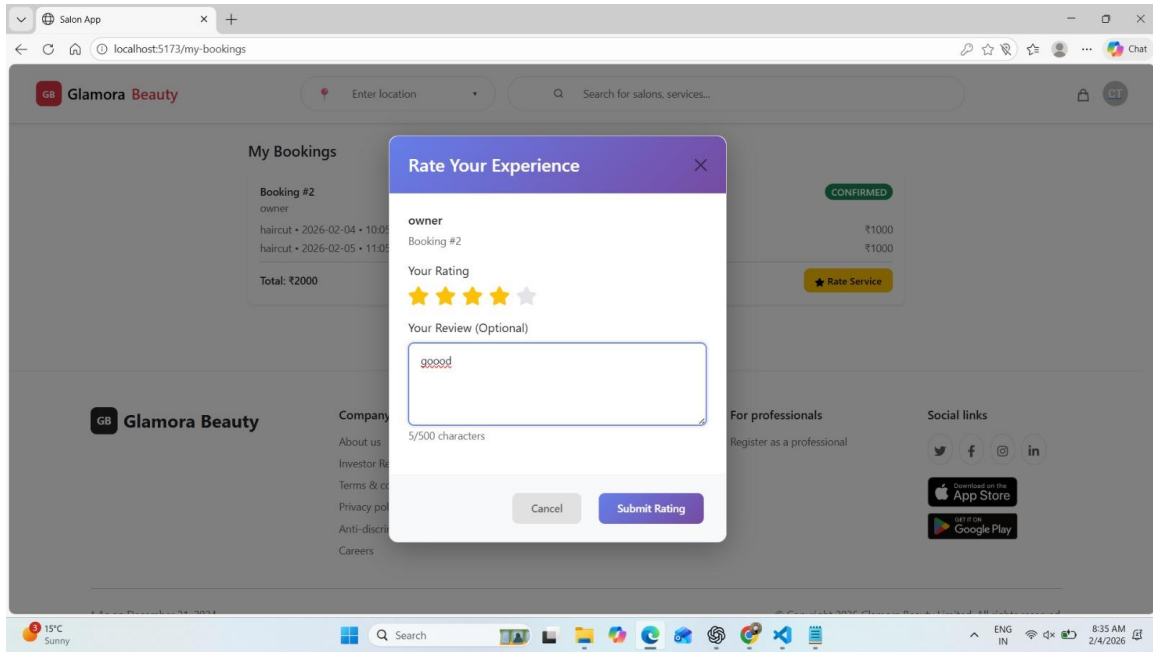




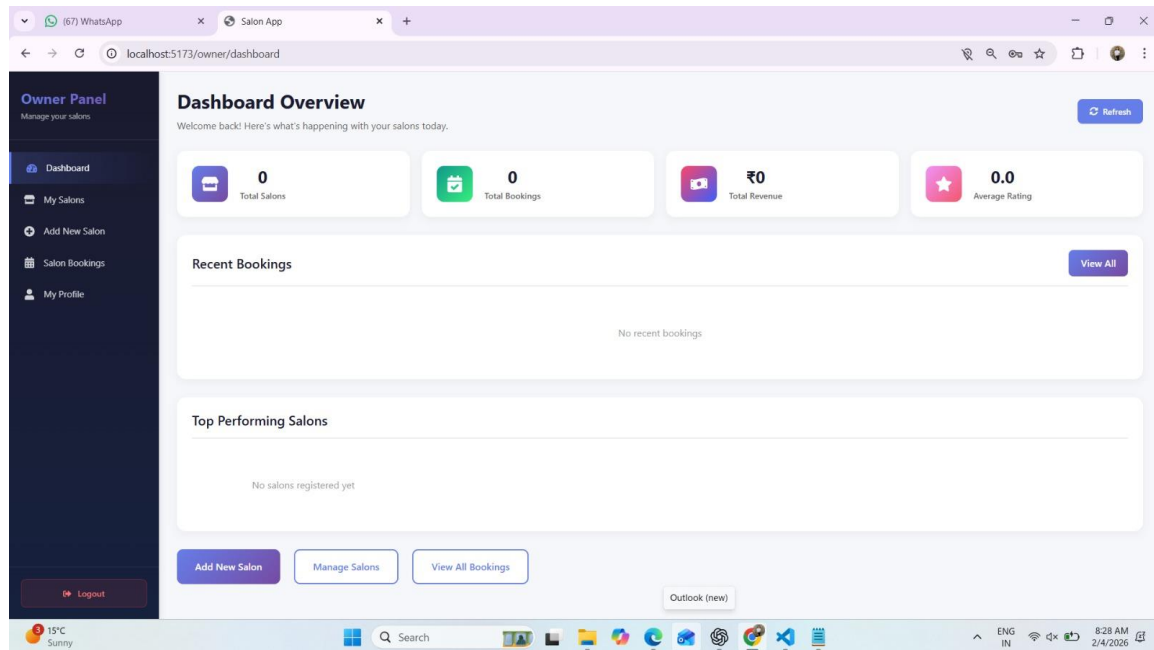
Review Module

My Reviews Page

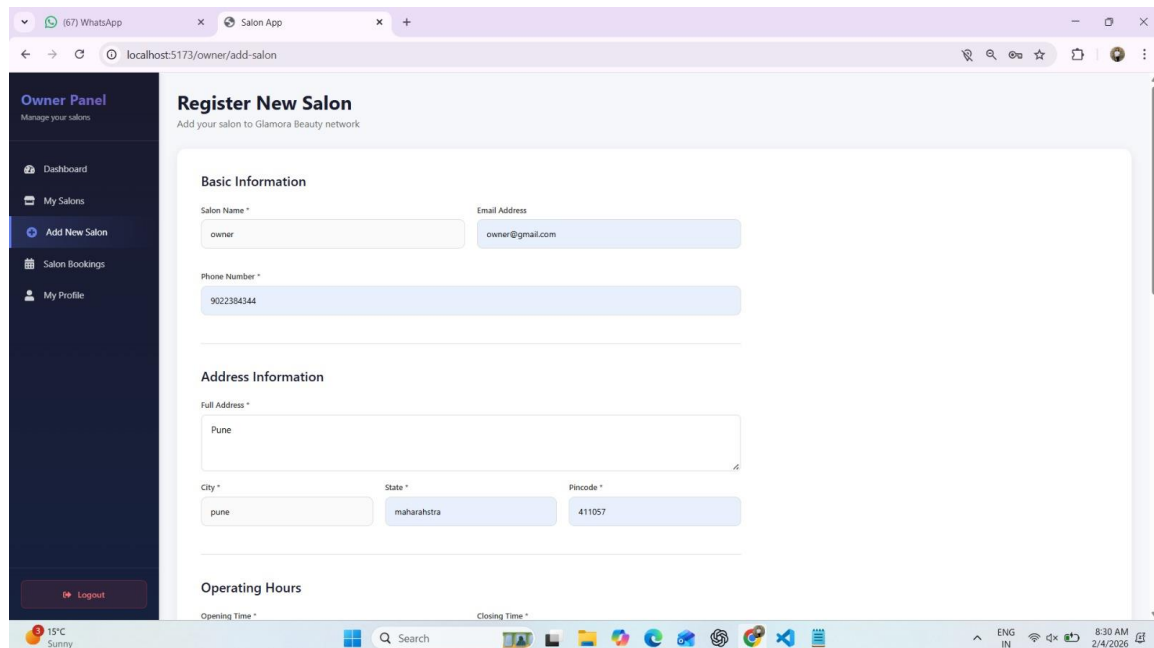
Displays all reviews submitted by the customer with salon details, rating, comments, and available actions to edit or delete reviews.



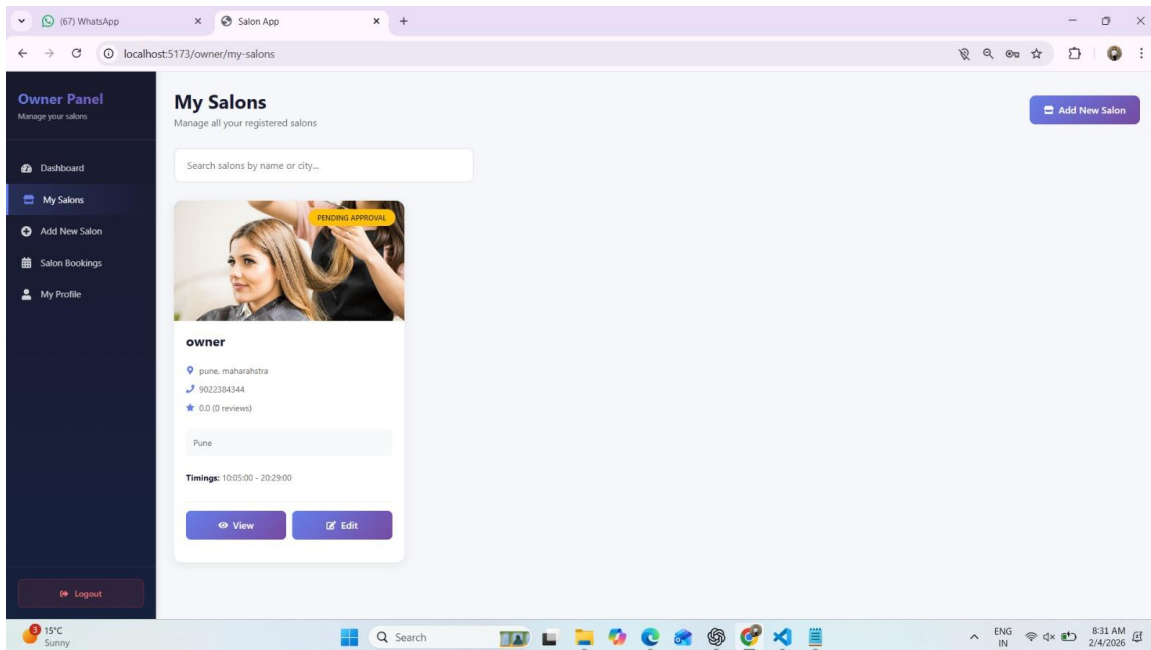
Owner Dashboard :



Create Salon:



View Salon:



Add Category And Service :

