VEER NARMAD SOUTH GUJARAT UNIVERSITY
Udhna Magdalla Road, Surat – 395007, Gujarat, [INDIA].

Department of Information and Communication Technology M.Sc. (ICT) Programme

PROJECT TITLE

EVENTPALACE

AS PARTIAL REQUIREMENT FOR THE DEGREE OF

MASTER OF SCIENCE IN INFORMATION AND COMMUNICATION TECHNOLOGY (MSC ICT 2 Year Course)

2024-25
SEMESTER-1

GUIDED BY:

MS. Maitri Hingu

SUBMITTED BY:

Gupta Om R.
Salunke Dhruv V.

Re-Accredited 'B++' 2.86 CGPA by NAAC
VEER NARMAD SOUTH GUJARAT UNIVERSITY
University Campus, Udhna-Magdalla Road, SURAT - 395 007, Gujarat, India.
વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી
યુનિવર્સિટી કેમ્પસ, ઉધના-મગદલ્લા રોડ, સુરત - ૩૯૫ ૦૦૭, ગુજરાત, ભારત.
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Department of Information and Communication Technology

M.Sc.(Information and Communication Technology) Programme

Certificate

This is to certify that Mr./Ms. **Gupta Om Rajesh** with exam seat number 1056 and PG Enroll Number **R24110018000710056** worked on his/her project work entitled as **EventPalace** at **Department of ICT** as a partial fulfillment of requirement of M.Sc. (Information and Communication Technology) - 1st Semester, during the academic year 2024-2025.

Date: 26/12/2024

Place: Department of ICT, VNSGU, Surat

Internal Project Guide
MSc(ICT) 1st Semester
Department of ICT
VNSGU, Surat

Head of the Department
Department of ICT
VNSGU, Surat

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Department of Information and Communication Technology

M.Sc.(Information and Communication Technology) Programme

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Date: 26/12/2024

Place: Department of ICT, VNSGU, Surat

Internal Project Guide
MSc(ICT) 1st Semester
Department of ICT
VNSGU, Surat

Head of the Department
Department of ICT
VNSGU, Surat

ACKNOWLEDGEMENT

The successful completion of this project, **EventPalace**, would not have been possible without the support, guidance, and encouragement of numerous individuals. We owe the success of this comprehensive endeavor to the combined efforts of a team of dedicated individuals who made it a reality.

First and foremost, we would like to express our heartfelt gratitude to the **J.P. Dawer Institute of Information Science & Technology, Surat**, for providing us with this incredible opportunity to work on a real-time project.

We extend our deepest thanks to **MS. Maitri Hingu**, our professor and project coordinator, for her unwavering support and guidance throughout the development of this project. Her expertise, patience, and ability to steer our ideas in the right direction have been invaluable in bringing **EventPalace** to life. She has been a constant source of encouragement, always ready to provide solutions whenever needed, for which we express our sincere gratitude.

Finally, we wish to acknowledge all those, named or unnamed, who have extended their cooperation—whether directly or indirectly—in the development of this system. Every contribution, big or small, has been instrumental in making **EventPalace** a reality

Thanking All.

GUPTA OM R.

SALUNKE DHRUV V.

INDEX

1.Introduction

EventPalace is an advanced venue booking system that allows users to book spaces such as halls, plots, and event venues seamlessly through electronic devices like computers, mobiles, and laptops using the internet.

EventPalace makes it possible for individuals or organizations to search, compare, and book venues more flexibly while providing an efficient and enjoyable user experience with an elegant interface.

1.1 Objective of the System

- Simplifying the process of venue booking for users.
- Providing a seamless and elegant interface for easy navigation.
- Improving efficiency and accessibility for venue management.
- Offering flexible booking options to meet diverse user needs.
- Enabling remote venue selection and booking.
- Reducing the time and effort required for on-site venue inquiries.
- Supporting administrative tasks related to venue bookings.

1.2 Problem Definition

- Event management and venue booking are often cumbersome processes requiring physical visits and numerous phone calls, which can be time-consuming and inefficient.
- The traditional method of venue booking lacks a centralized system, making it difficult for users to compare and choose venues effectively.
- Manual processes lead to inefficiencies in managing bookings, availability, and communication between venue owners and customers.
- The absence of an automated system creates challenges for remote users who may not have the flexibility to visit venues physically.
- High dependency on intermediaries often increases the cost and complexity of booking venues.
- Lack of clear and accessible information about venue features, pricing, and availability adds to the user frustration.
- Unorganized administrative tasks for venue owners result in scheduling conflicts and missed business opportunities.

  EventPalace addresses these challenges by offering a streamlined, user-friendly, and fully digital venue booking solution.

1.3 Core Components

- Venue Management System (VMS): A platform where venues are listed, enabling users to browse, book, and manage their reservations seamlessly. It includes features for tracking availability, pricing, and booking history.
- Content Creation and Delivery: Tools for venue owners to showcase their spaces effectively, including high-quality images, virtual tours, detailed descriptions, and pricing information.
- Smart Recommendations: A system that suggests venues to users based on their preferences, budget, location, and type of event, optimizing the booking experience.
- Booking and Payment Mechanisms: Secure methods for users to reserve venues, make payments, and manage transactions, ensuring a hassle-free process for both users and venue owners.
- Collaboration and Communication Tools: Features that facilitate interaction between users and venue owners, such as messaging, real-time chat, and notifications for updates or confirmations.
- Data Analytics and Reporting: Insights for venue owners and administrators to analyze bookings, user behavior, and revenue trends, enabling better decision-making and improved service delivery.

1.4 Project Profile

(A) Project Profile

Project Title	EventPalace
Front-End	**JSF, Prime Faces**
Back-End	**MySQL 5.7.16**
Hardware Requirement	**Processor of 800 MHz Pentium (R), Minimum 512 MB RAM and Above, Minimum 40 GB Hard Disk and Aboveand Mouse, Keyboard.**
Software Specification	**Front End Software: Net beans-13Back End: MySQL 5.7.16 Operating System: Windows 11**
Development Tools	**Net beans-13, MySQL 5.7.16 Payara server**
Submitted By	**Mr. Om Gupta Mr. Dhruv Salunke**

1.5 Advantages of the Proposed System

- Flexibility: Users can book venues at their convenience, anytime and anywhere, based on their schedules.
- Cost-effectiveness: Streamlined booking reduces costs associated with intermediaries and manual processes.
- Convenience: Users can explore, compare, and book venues from the comfort of their homes or offices.
- Time Management: Simplifies the process of booking venues, saving time that would otherwise be spent on phone calls or in-person visits.
- Communication: Users can directly interact with venue owners through in-app messaging or notifications, improving communication.
- Efficiency: Venue owners can manage bookings, payments, and customer interactions more efficiently through automated systems.

1.6 Future Enhancement

- Mobile App Development: Develop a dedicated mobile app for **EventPalace**, allowing users to book venues, view availability, and manage bookings on the go.
- Gamification Elements: Integrate gamified features like rewards, badges, and challenges to engage users, encourage repeat bookings, and create a fun venue selection experience.
- Virtual Reality (VR) Integration: Incorporate VR technology to offer virtual tours of event spaces, allowing users to experience venues remotely in an immersive way.
- AI-Powered Personalization: Use AI algorithms to recommend venues based on user preferences, past bookings, and event type, enhancing the booking experience and streamlining the decision-making process.

1.7 Project Scope:

Admin can manage:

- Verify owner
- Feedback Management
- Query Management

Owner Can Manage:

- Upload venue
- Add Venue
- Review Management

User Can Do:

- Browse Venue
- View venue facility
- view venue images
- Book venue
- Make advance payment
- Make final payment
- Review
- Receive booking confirmation

2. Requirement Gathering &Analysis

2.1 Requirement Gathering

I have gathered information about venue booking systems and analyzed various features that make the process seamless and user-friendly. The **EventPalace** system ensures flexibility, reliability, and financial efficiency for both venue owners and users. It allows users to book venues with ease while providing venue owners with an efficient way to manage bookings and payments.

In this project, I have used the following technology:

2.2 Feasibility

The feasibility of the **EventPalace** project has been assessed based on time, technology, and project scope.

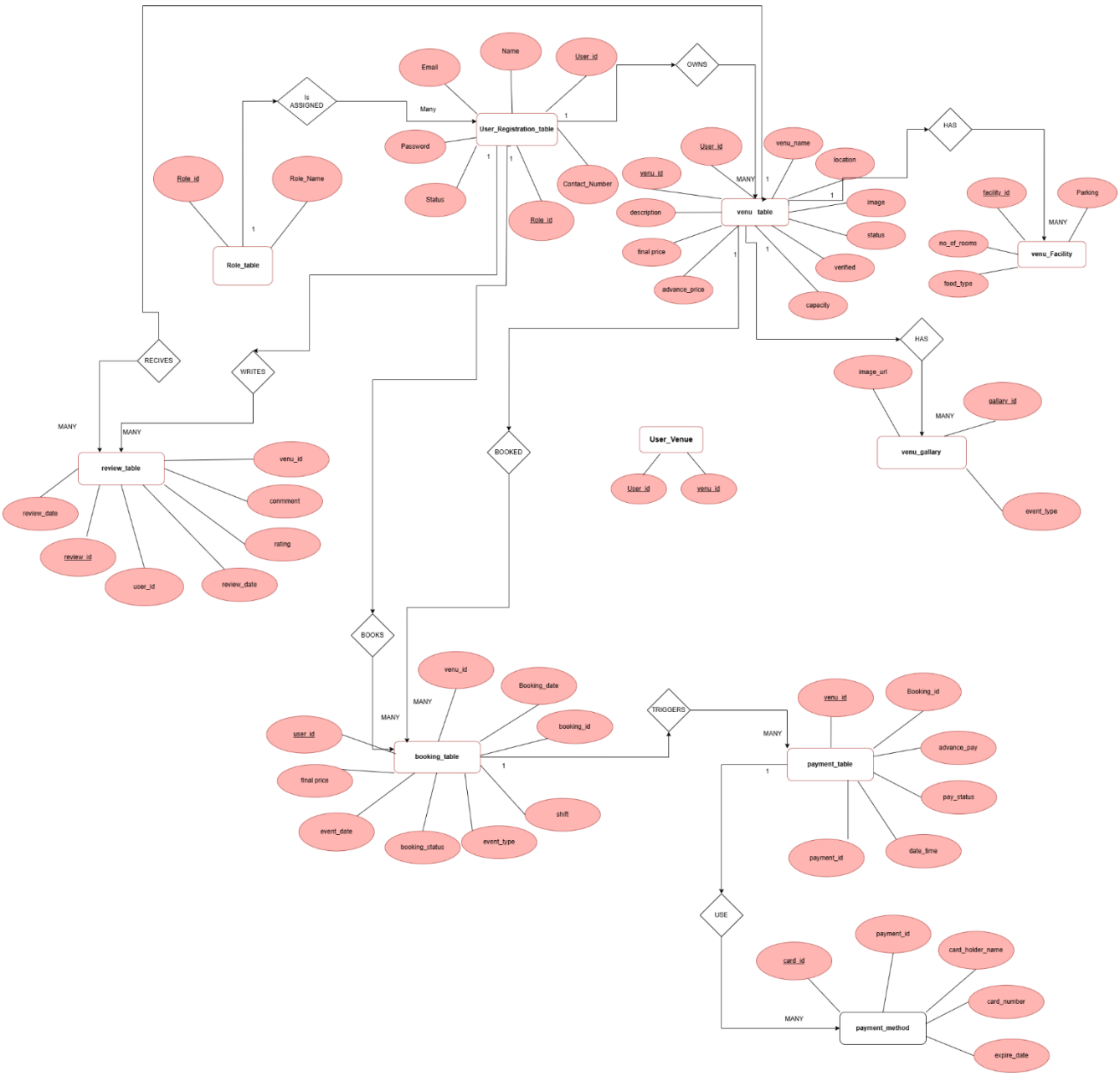
- **Time:**
  The project can be completed within 3 months, making it feasible within the given timeframe.

- **Technology:**
  Built using Java, the project is technically sound with minimal risk, ensuring feasibility.

- **Project Size:**
  The moderate project size makes it manageable, and the scope is achievable within the planned timeline.

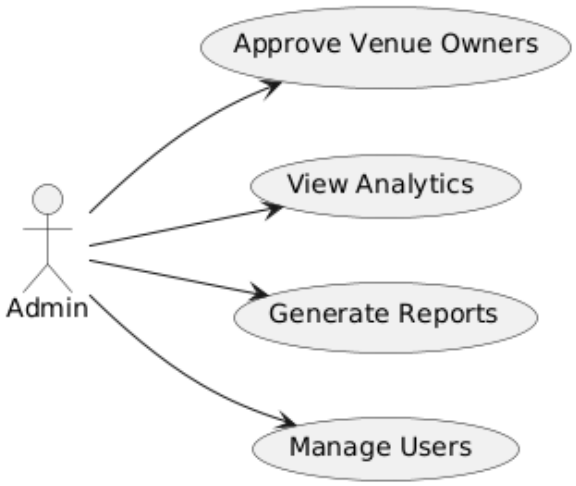
3. System Design

3.1 Entity Relationship Diagram



3.2 Use Case Diagram

Admin:-



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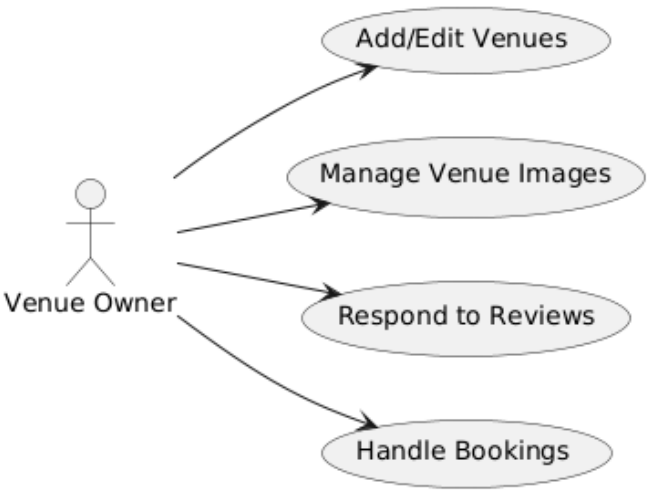

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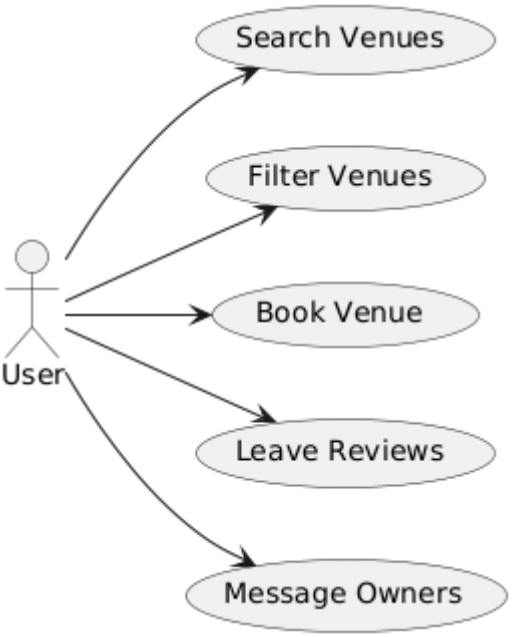
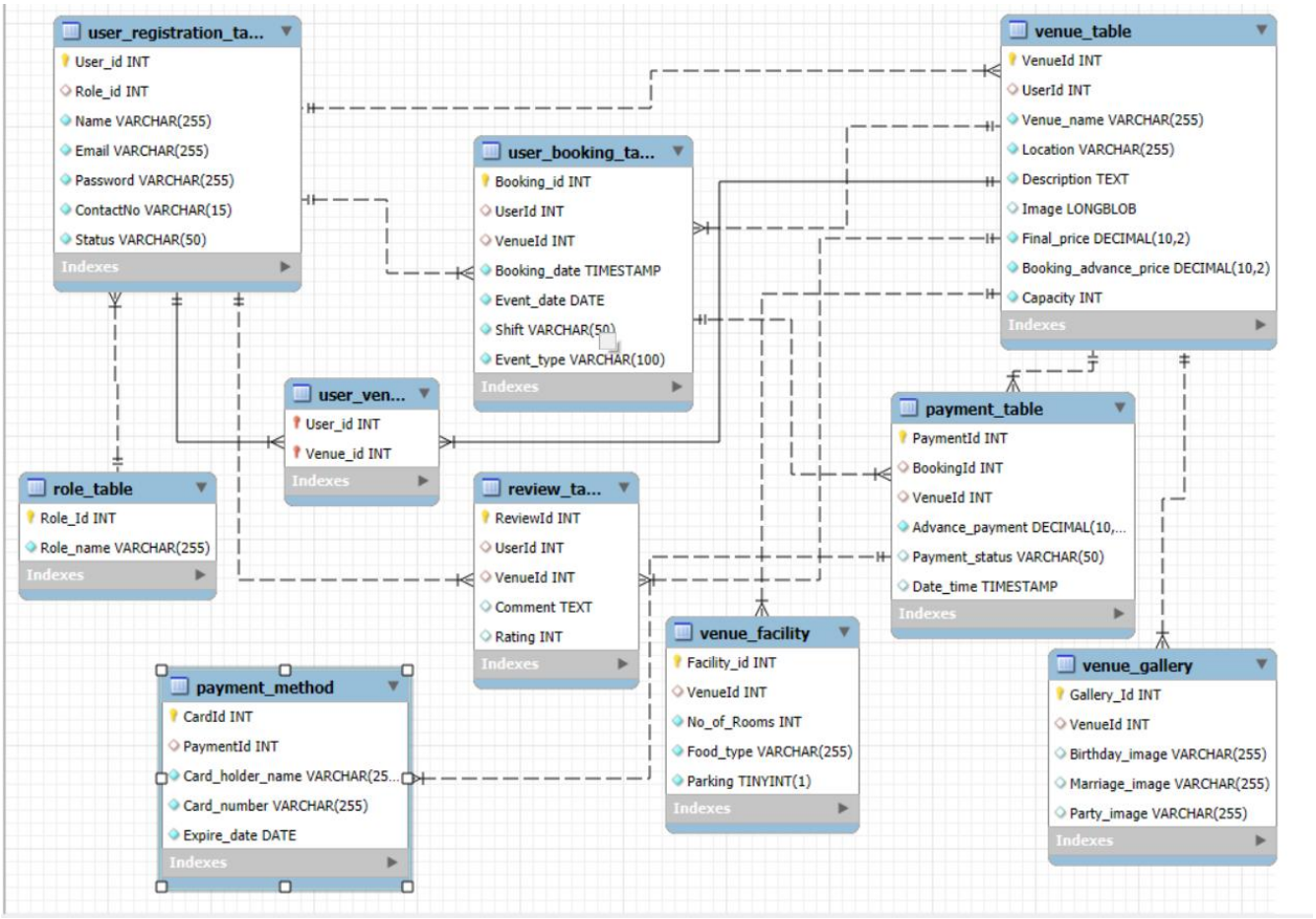
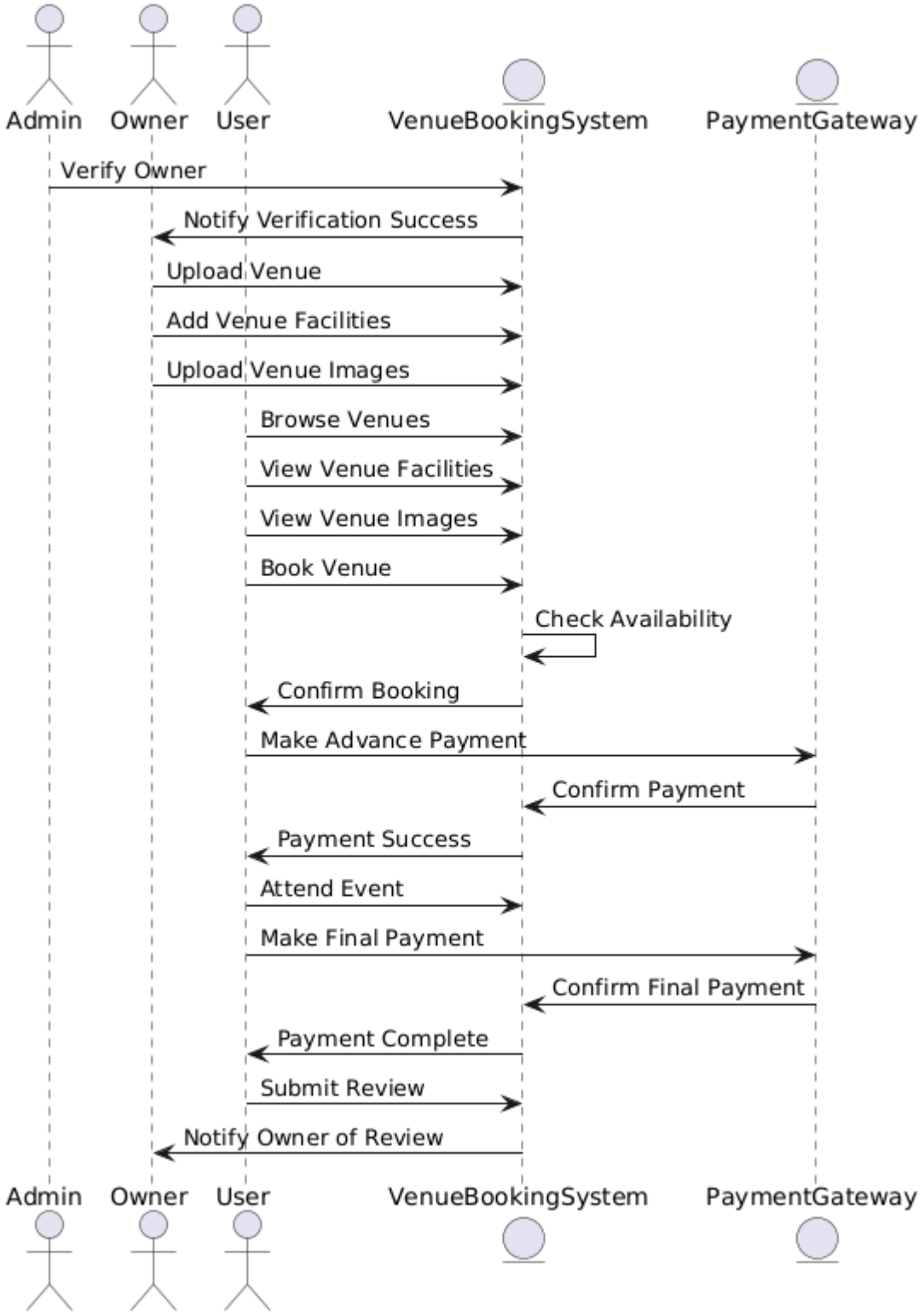


3.3 Class Diagram



3.5 Sequence Diagram



3.4 Database Design

1. **Role_table**

Column	Data Type	Constraints
Role_Id	INT	PRIMARY KEY
Role_name	VARCHAR	NOT NULL

---

2. **User_Registration_table**

Column	Data Type	Constraints
User_id	INT	PRIMARY KEY
Role_id	INT	FOREIGN KEY REFERENCES Role_table(Role_Id)
Name	VARCHAR	NOT NULL
Email	VARCHAR	UNIQUE, NOT NULL
Password	VARCHAR	NOT NULL
ContactNo	VARCHAR	NOT NULL
Status	VARCHAR	NOT NULL

---

3. **Venue_table**

Column	Data Type	Constraints
VenueId	INT	PRIMARY KEY
UserId	INT	FOREIGN KEY REFERENCES User_Registration_table(User_id)
Venue_name	VARCHAR	NOT NULL
Location	VARCHAR	NOT NULL
Description	TEXT	NOT NULL
Image	VARCHAR	DEFAULT ('default_image.jpg')
Final_price	DECIMAL	NOT NULL
Booking_advance_price	DECIMAL	NOT NULL
Capacity	INT	NOT NULL

---

4. **user_registration and Venu (Many to Many)**

Column	Data Type	Constraints
User_id(FK)	INT	PRIMARY KEY(user_Registration)
Venu_id(FK)	INT	PRIMARY KEY(Venu_table)

---

5. **Venue_Facility**

Column	Data Type	Constraints
Facility_id	INT	PRIMARY KEY
VenueId	INT	FOREIGN KEY REFERENCES Venue_table(VenueId)
No_of_Rooms	INT	NOT NULL
Food_type	VARCHAR	NOT NULL
Parking	BOOLEAN	NOT NULL

---

6. **Venue_Gallery**

Column	Data Type	Constraints
Gallery_Id	INT	PRIMARY KEY
VenueId	INT	FOREIGN KEY REFERENCES Venue_table(VenueId)
Birthday_image	VARCHAR	DEFAULT ('birthday_default.jpg')
Marriage_image	VARCHAR	DEFAULT ('marriage_default.jpg')
Party_image	VARCHAR	DEFAULT ('party_default.jpg')

---

7. **User_Booking_table**

Column	Data Type	Constraints
Booking_id	INT	PRIMARY KEY
UserId	INT	FOREIGN KEY REFERENCES User_Registration_table(User_id)
VenueId	INT	FOREIGN KEY REFERENCES Venue_table(VenueId)
Booking_date	DATE	NOT NULL
Event_date	DATE	NOT NULL
Shift	VARCHAR	NOT NULL
Event_type	VARCHAR	NOT NULL

---

8. **Payment_table**

Column	Data Type	Constraints
PaymentId	INT	PRIMARY KEY
BookingId	INT	FOREIGN KEY REFERENCES User_Booking_table(Booking_id)
VenueId	INT	FOREIGN KEY REFERENCES Venue_table(VenueId)
Advance_payment	DECIMAL	NOT NULL
Payment_status	VARCHAR	CHECK(Payment_status IN ('pending', 'complete'))
Date_time	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP

---

9. **Payment_Method**

Column	Data Type	Constraints
CardId	INT	PRIMARY KEY
PaymentId	INT	FOREIGN KEY REFERENCES Payment_table(PaymentId)
Card_holder_name	VARCHAR	NOT NULL
Card_number	VARCHAR	NOT NULL
Expire_date	DATE	NOT NULL

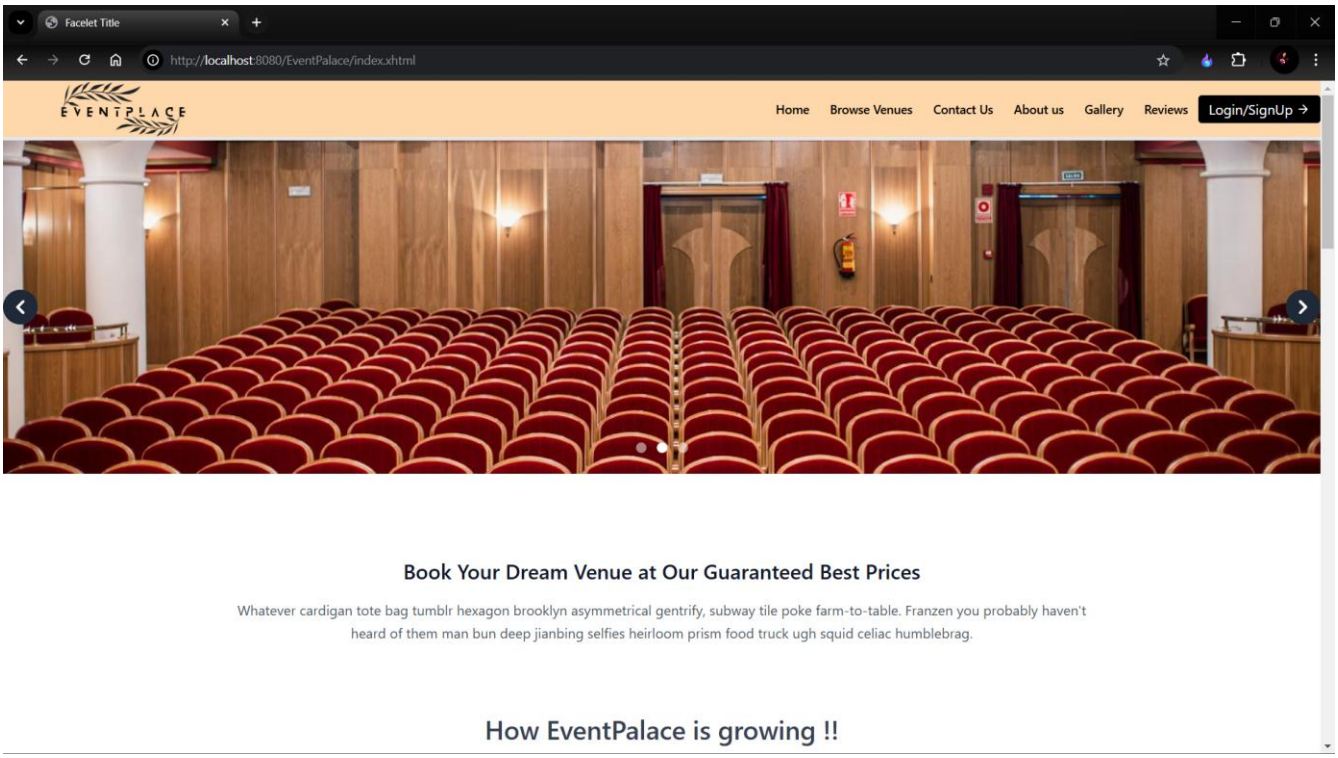
---

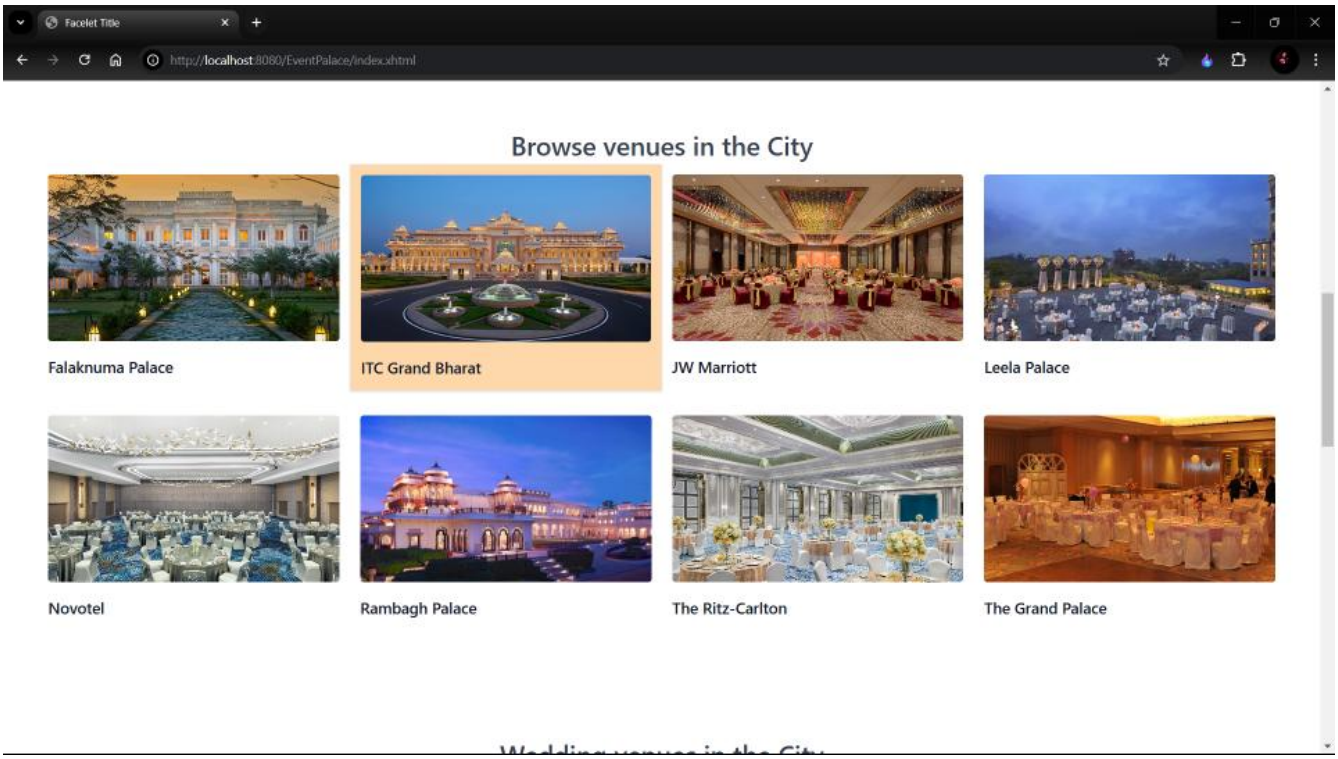
10. **Review_table**

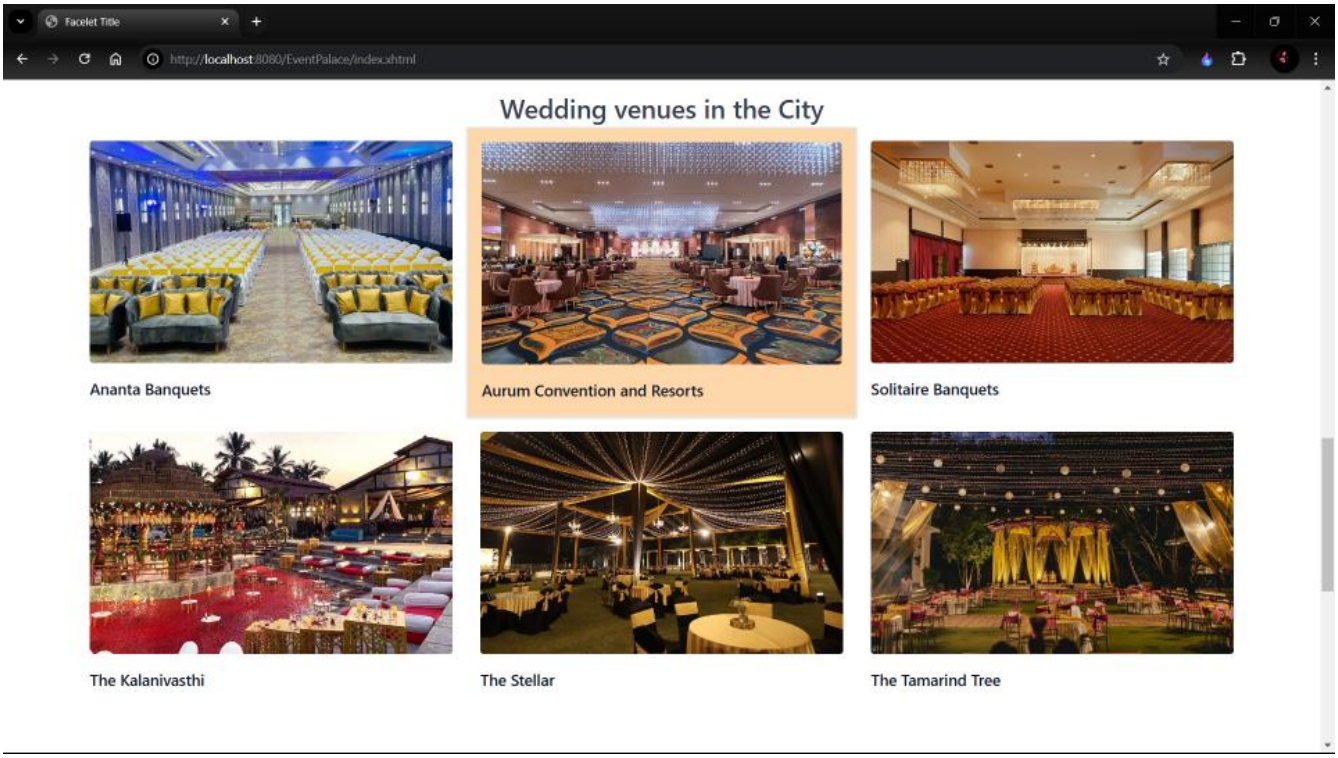
Column	Data Type	Constraints
ReviewId	INT	PRIMARY KEY
UserId	INT	FOREIGN KEY REFERENCES User_Registration_table(User_id)
VenueId	INT	FOREIGN KEY REFERENCES Venue_table(VenueId)
Comment	TEXT	
Rating	INT	CHECK(Rating BETWEEN 1 AND 5)

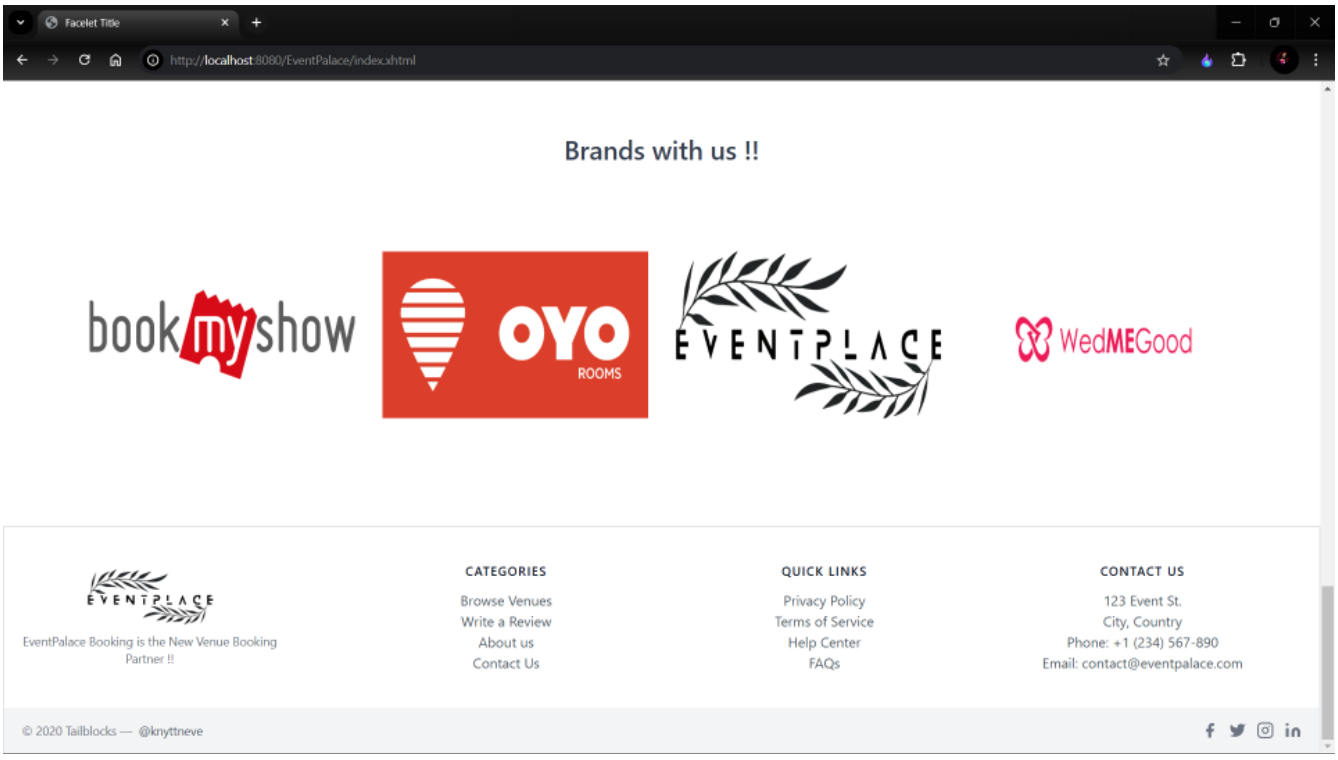
4.Interface Design

Home Page:






Facelet Title
http://localhost:8080/EventPalace/index.xhtml
Wedding venues in the City
Ananta Banquets
Aurum Convention and Resorts
Solitaire Banquets
The Kalanivasthi
The Stellar
The Tamarind Tree


Facelet Title
http://localhost:8080/EventPalace/index.xhtml
Brands with us !!
bookmyshow
OYO ROOMS
EVENTPLACE
WedMEGood
EVENTPLACE
EventPalace Booking is the New Venue Booking Partner !!
CATEGORIES
Browse Venues
Write a Review
About us
Contact Us
QUICK LINKS
Privacy Policy
Terms of Service
Help Center
FAQs
CONTACT US
123 Event St.
City, Country
Phone: +1 (234) 567-890
Email: contact@eventpalace.com
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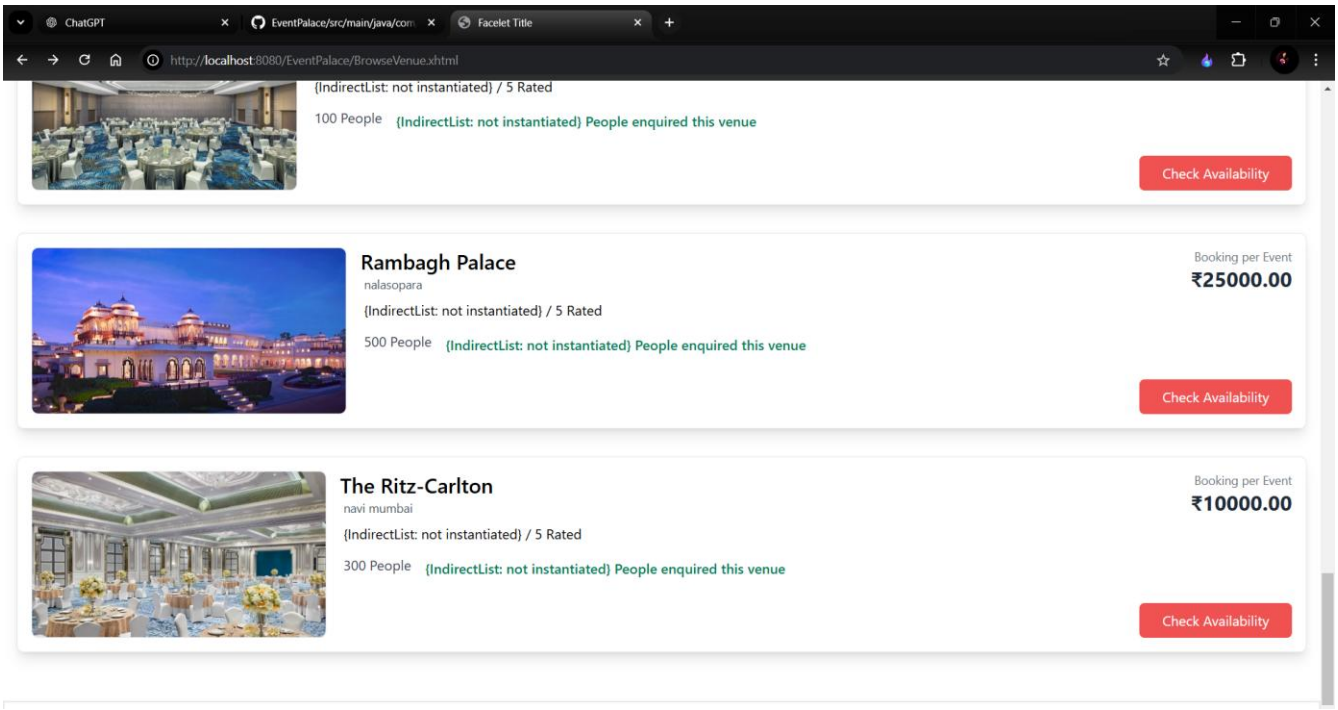
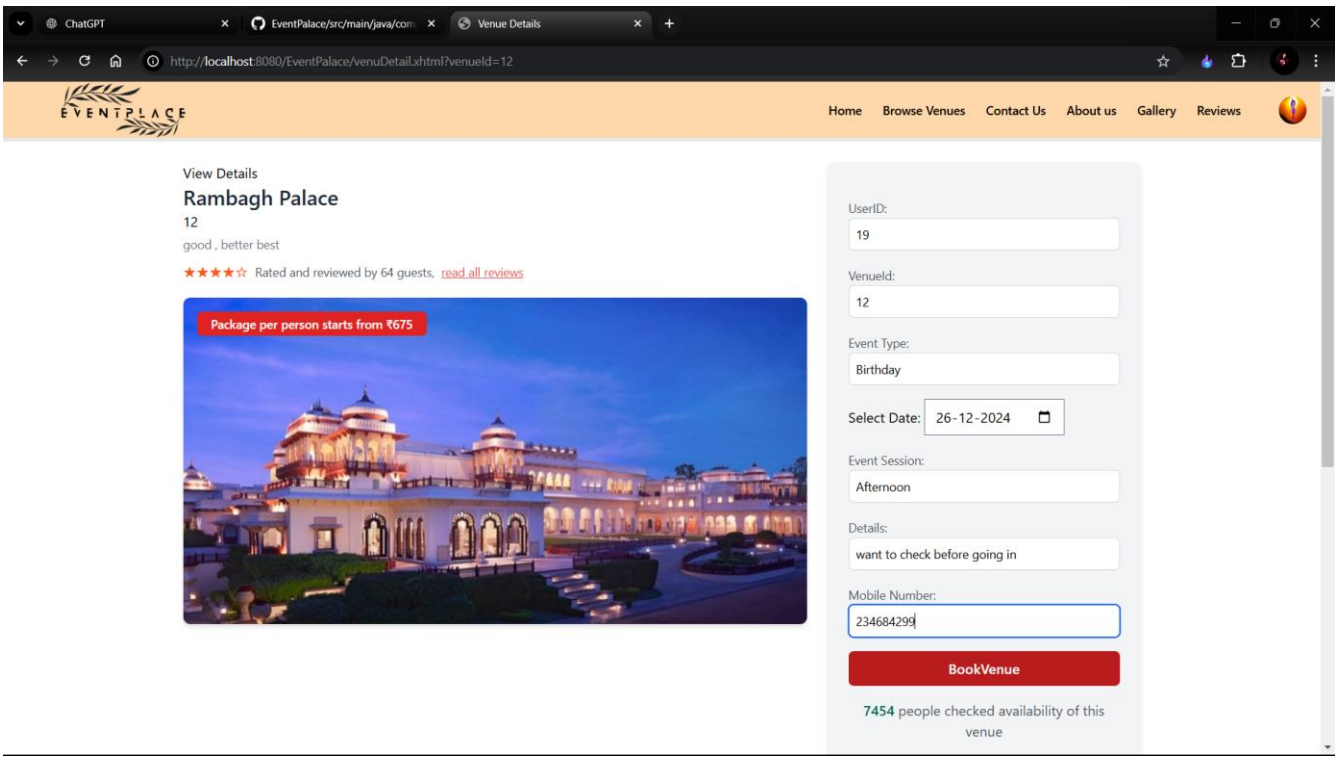
Browse Venues:



Venue Detail:



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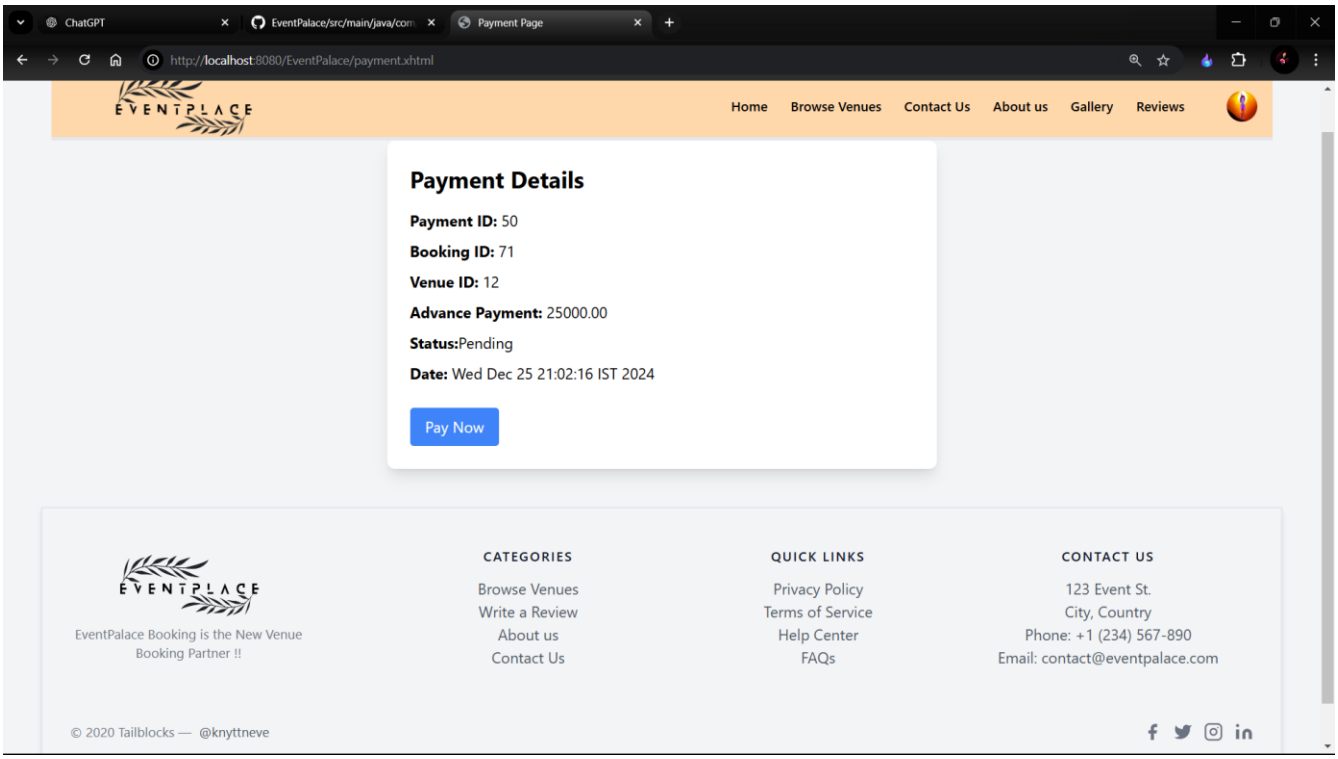
ChatGPT
EventPalace/src/main/java/com
Payment Page
http://localhost:8080/EventPalace/payment.xhtml
EVENTPLACE
Home
Browse Venues
Contact Us
About us
Gallery
Reviews
Payment Details
Payment ID: 50
Booking ID: 71
Venue ID: 12
Advance Payment: 25000.00
Status:Pending
Date: Wed Dec 25 21:02:16 IST 2024
Pay Now
EVENTPLACE
EventPalace Booking is the New Venue Booking Partner !!
CATEGORIES
Browse Venues
Write a Review
About us
Contact Us
QUICK LINKS
Privacy Policy
Terms of Service
Help Center
FAQs
CONTACT US
123 Event St.
City, Country
Phone: +1 (234) 567-890
Email: contact@eventplace.com
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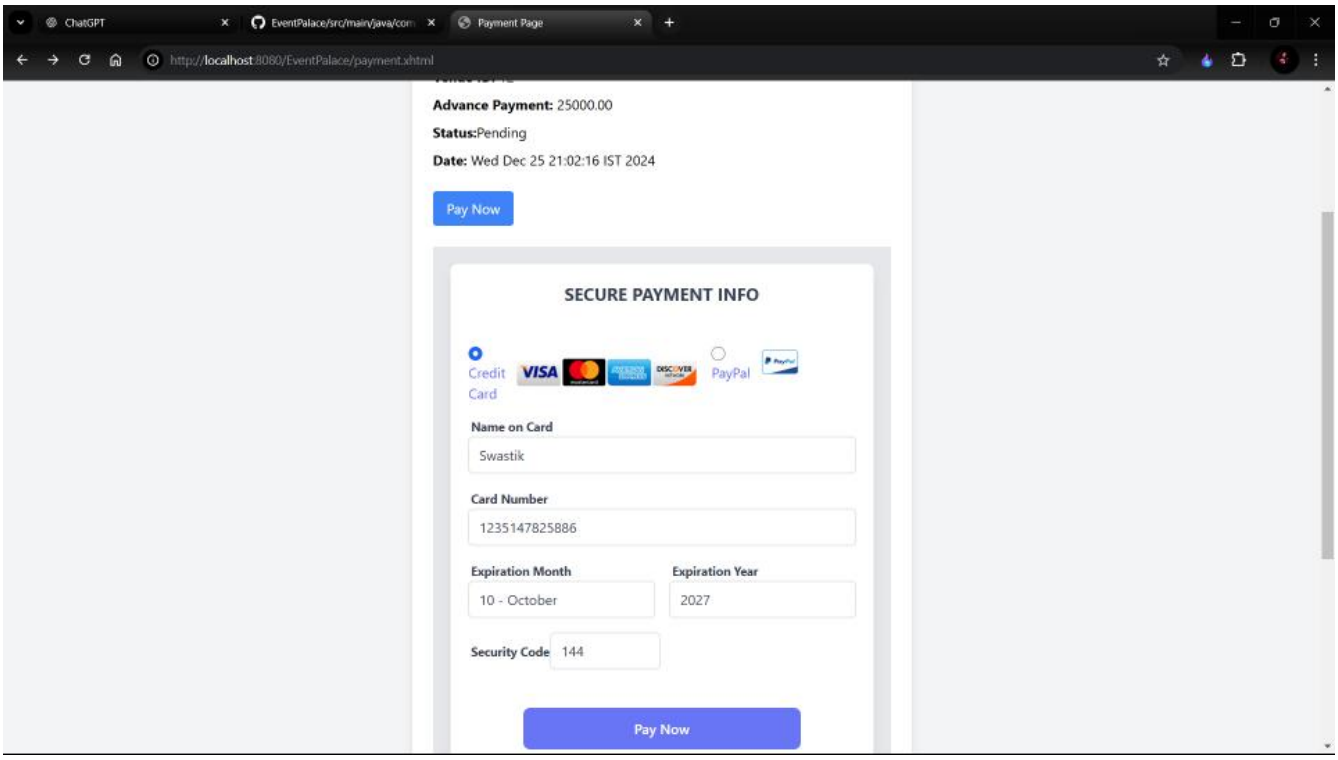
ChatGPT
EventPalace/src/main/java/com
Payment Page
http://localhost:8080/EventPalace/payment.xhtml
Advance Payment: 25000.00
Status:Pending
Date: Wed Dec 25 21:02:16 IST 2024
Pay Now
SECURE PAYMENT INFO
Credit Card
PayPal
Name on Card
Swastik
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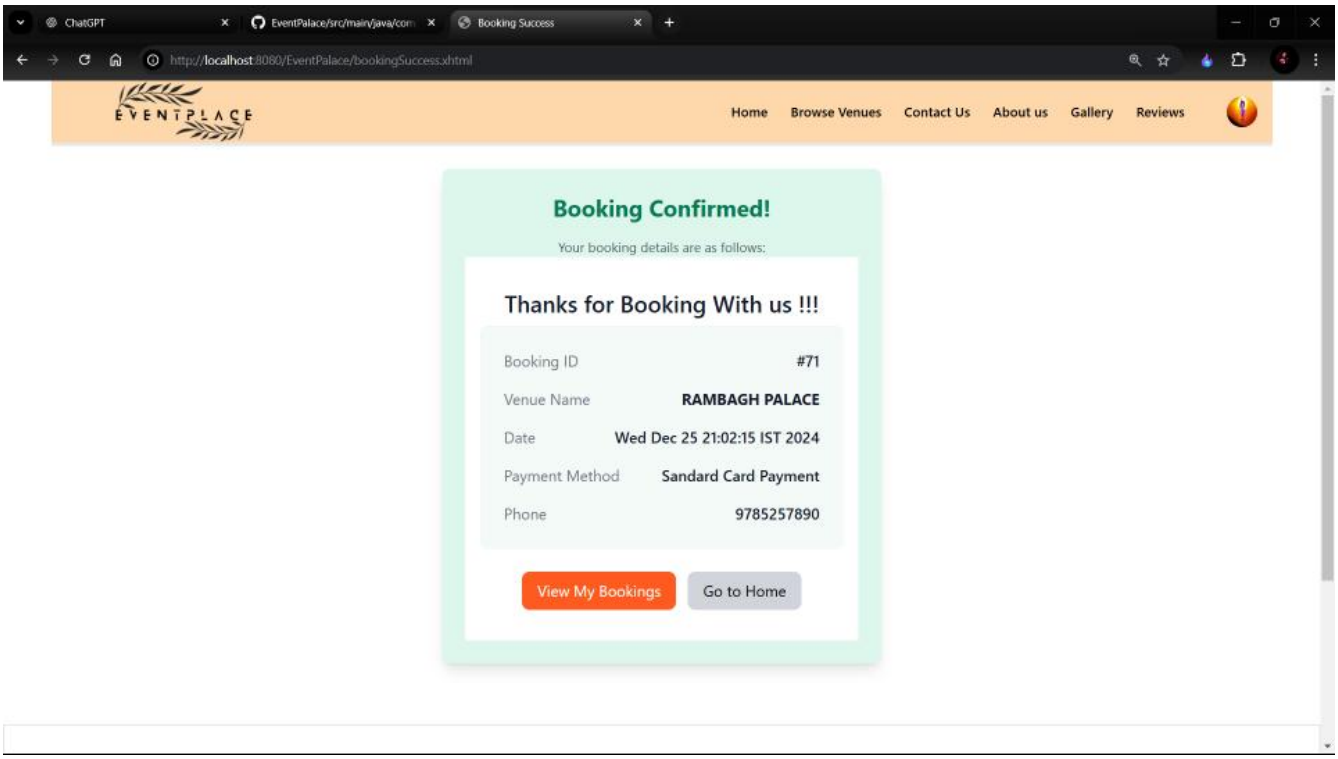
Expiration Month
10 - October
Expiration Year
2027
Security Code
144
Pay Now

Booking Confirm:



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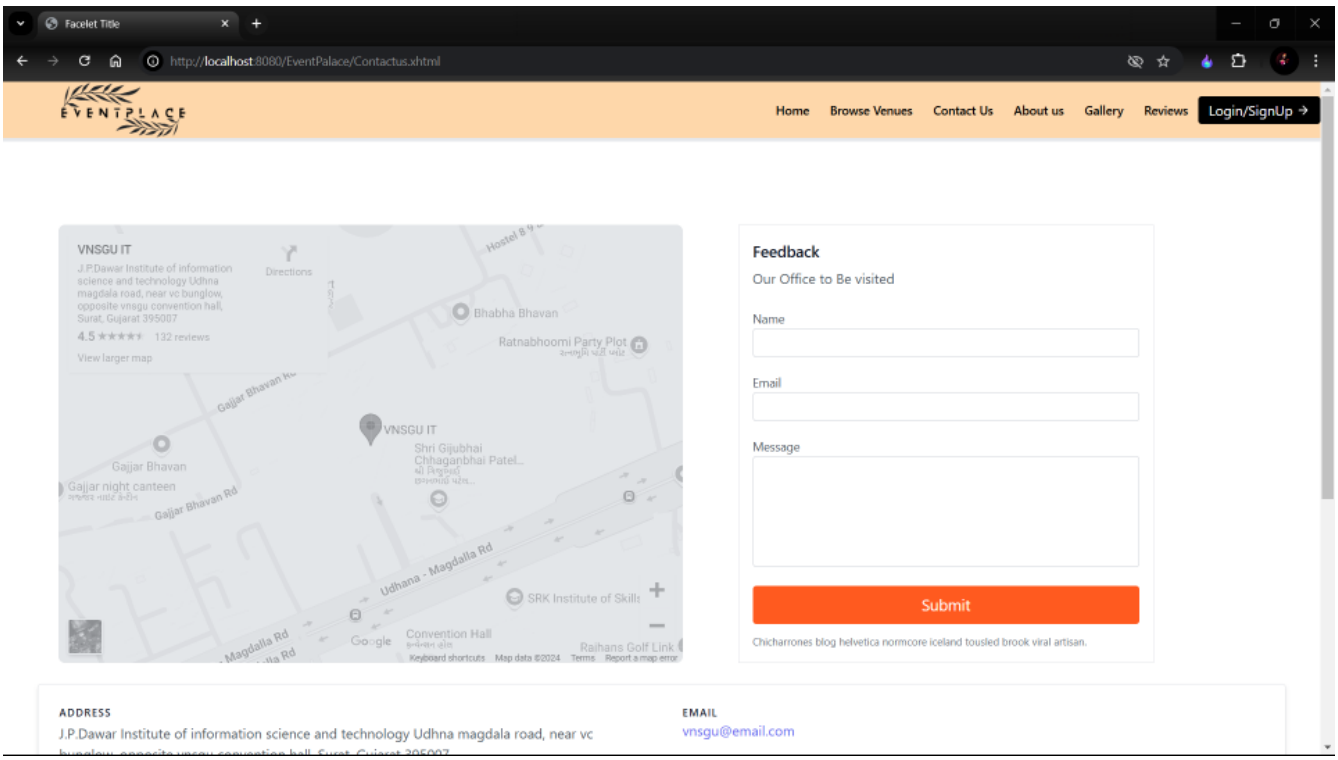
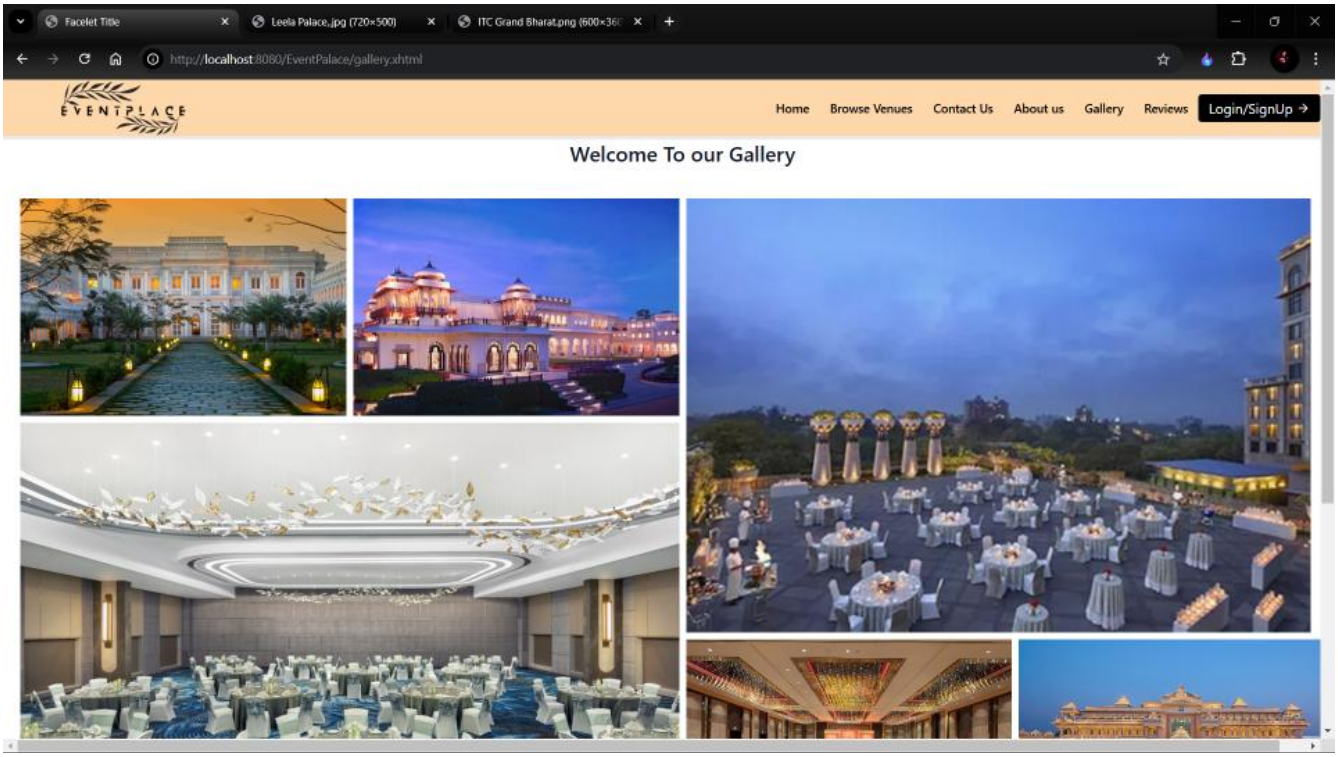
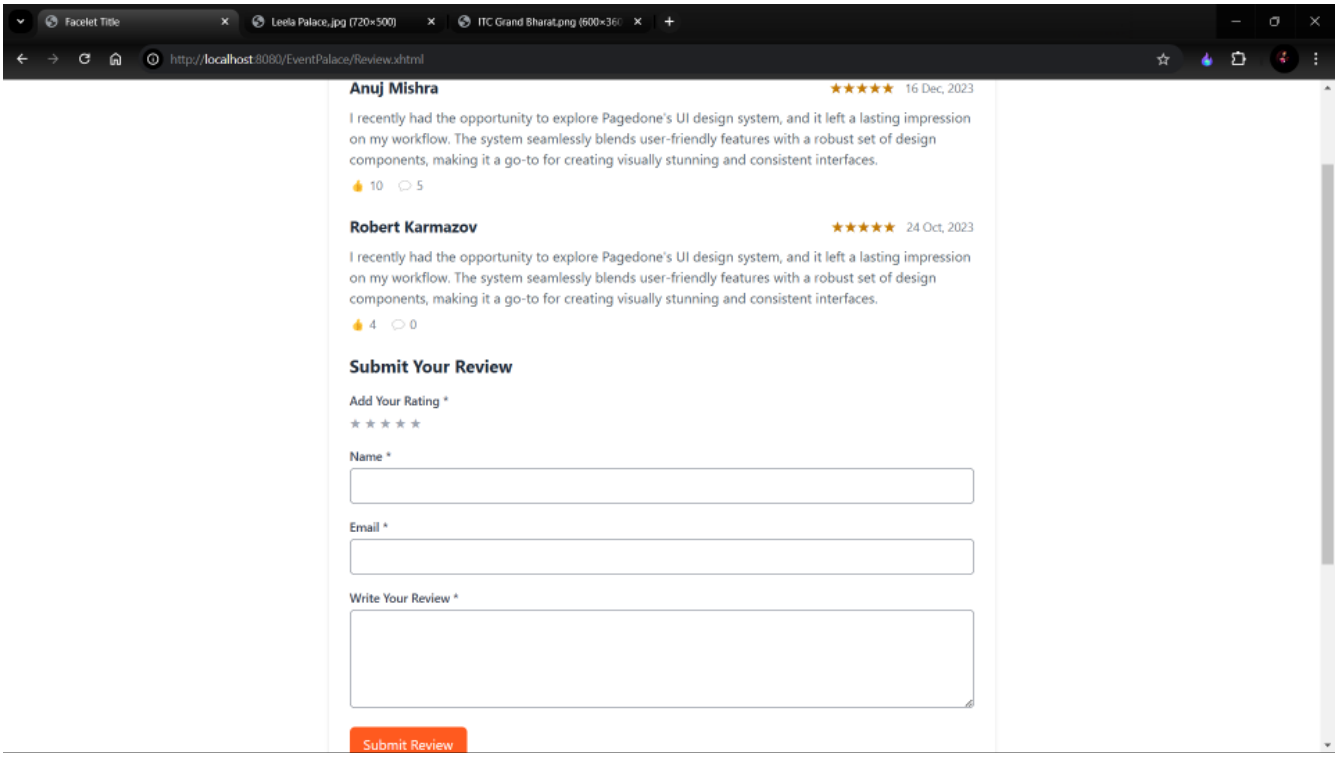


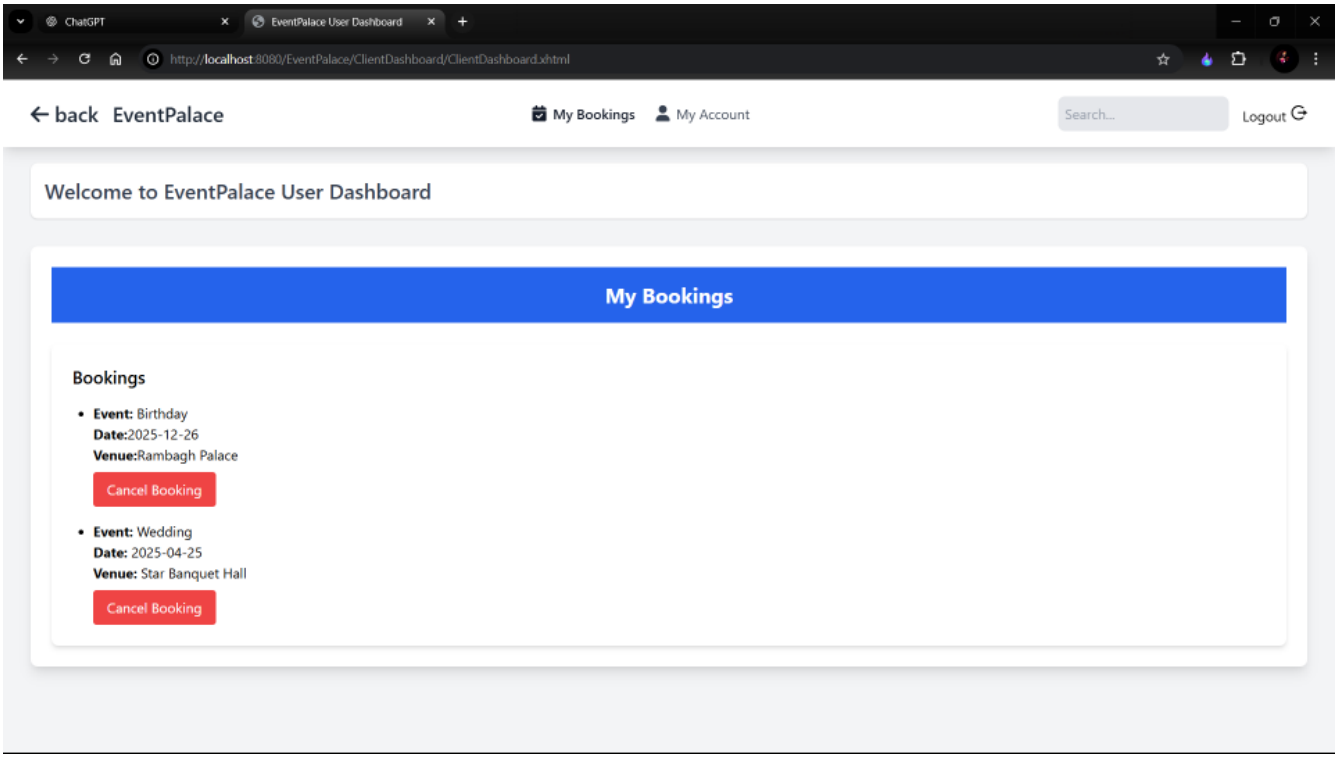
Gallery Page:

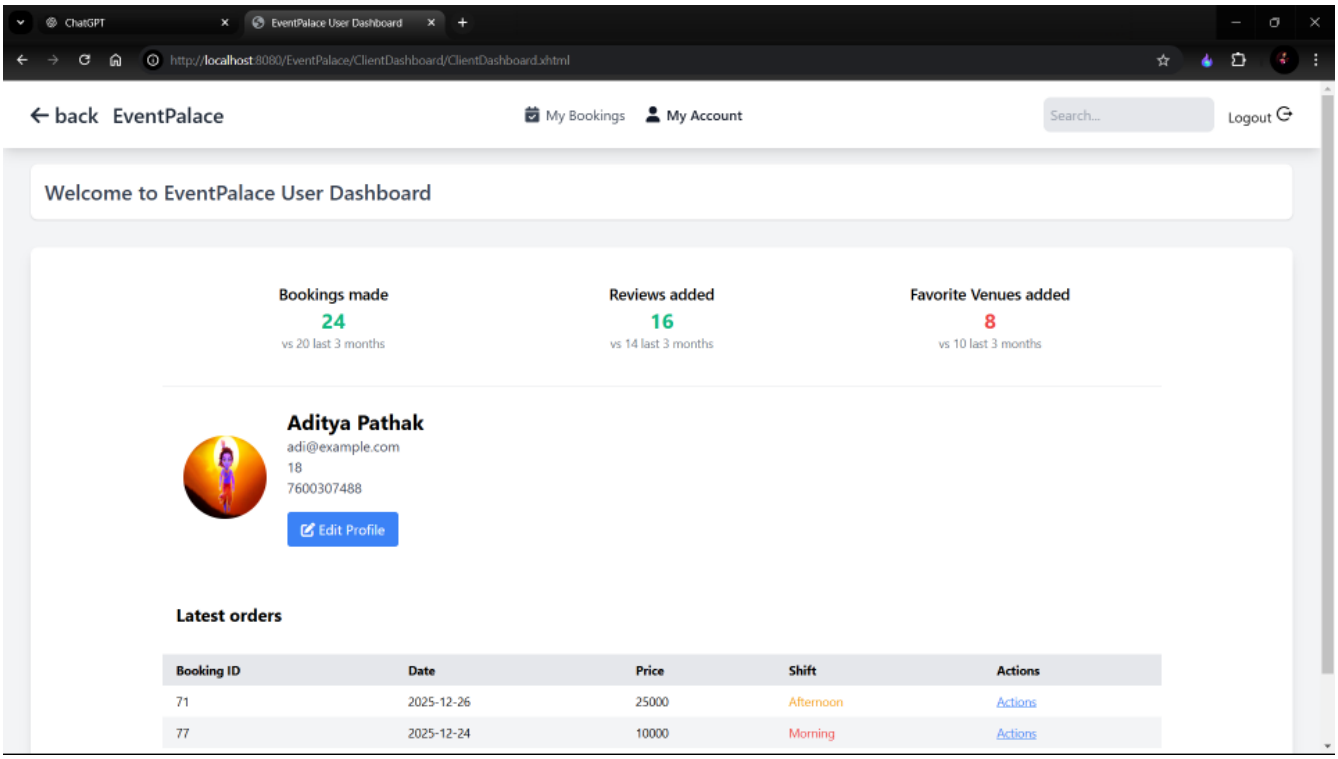


Review Page:

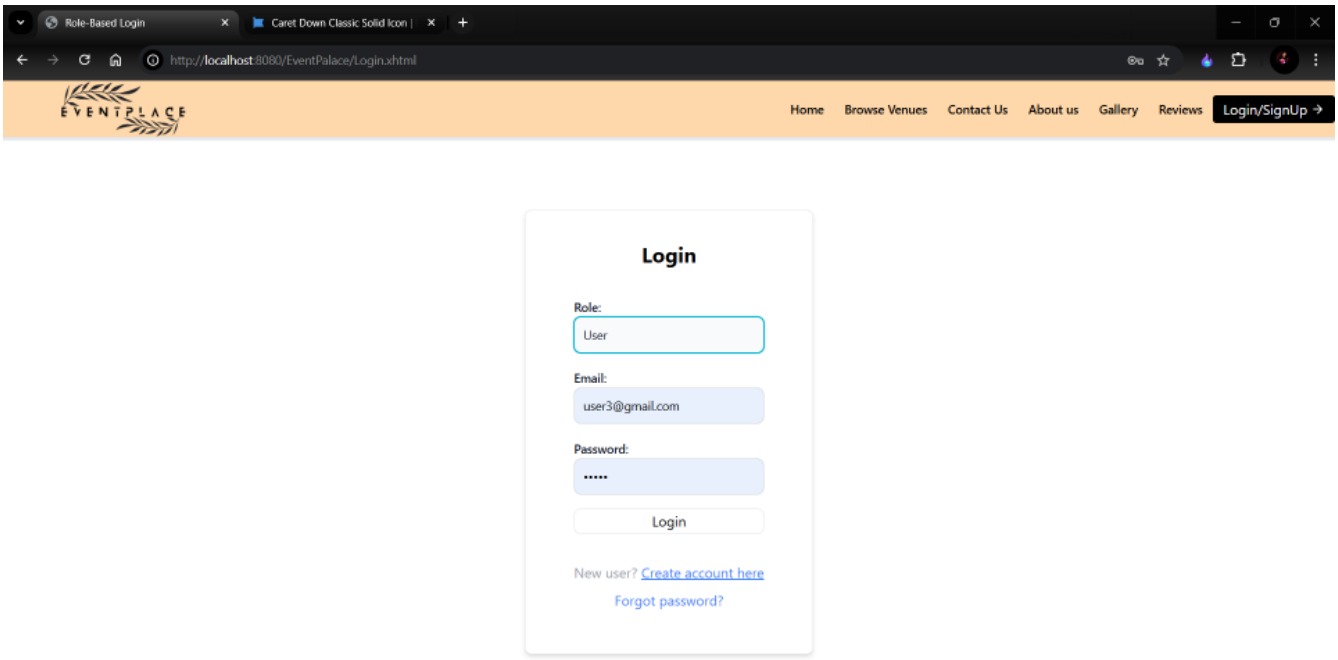


User DashBoard :

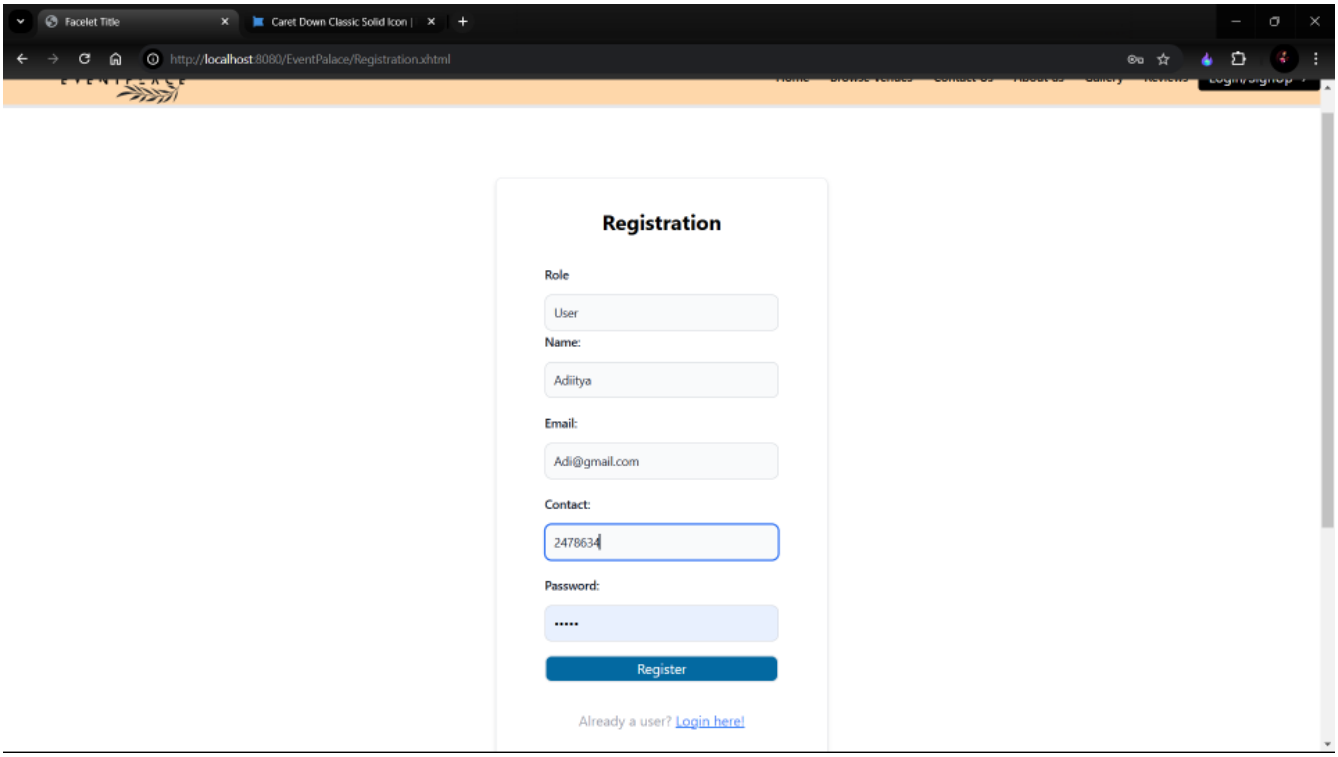




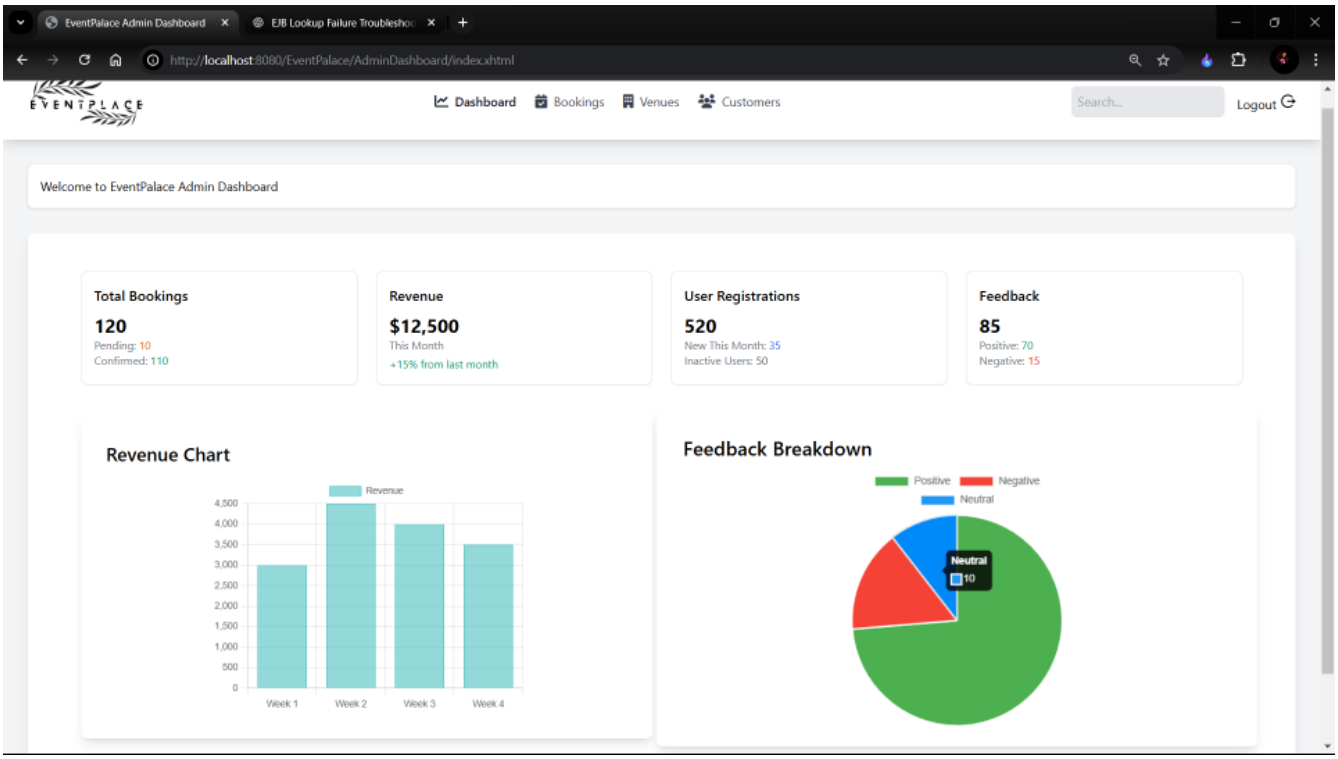
Login Page:

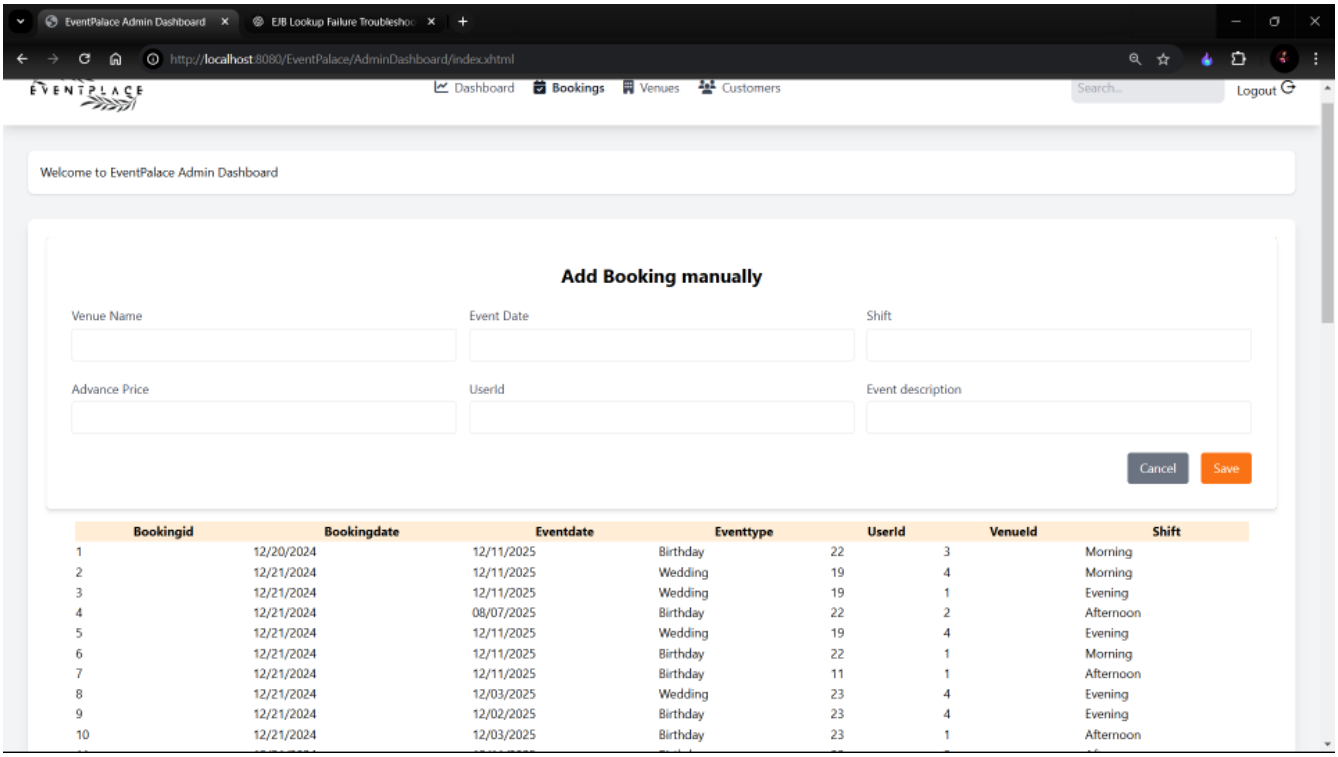


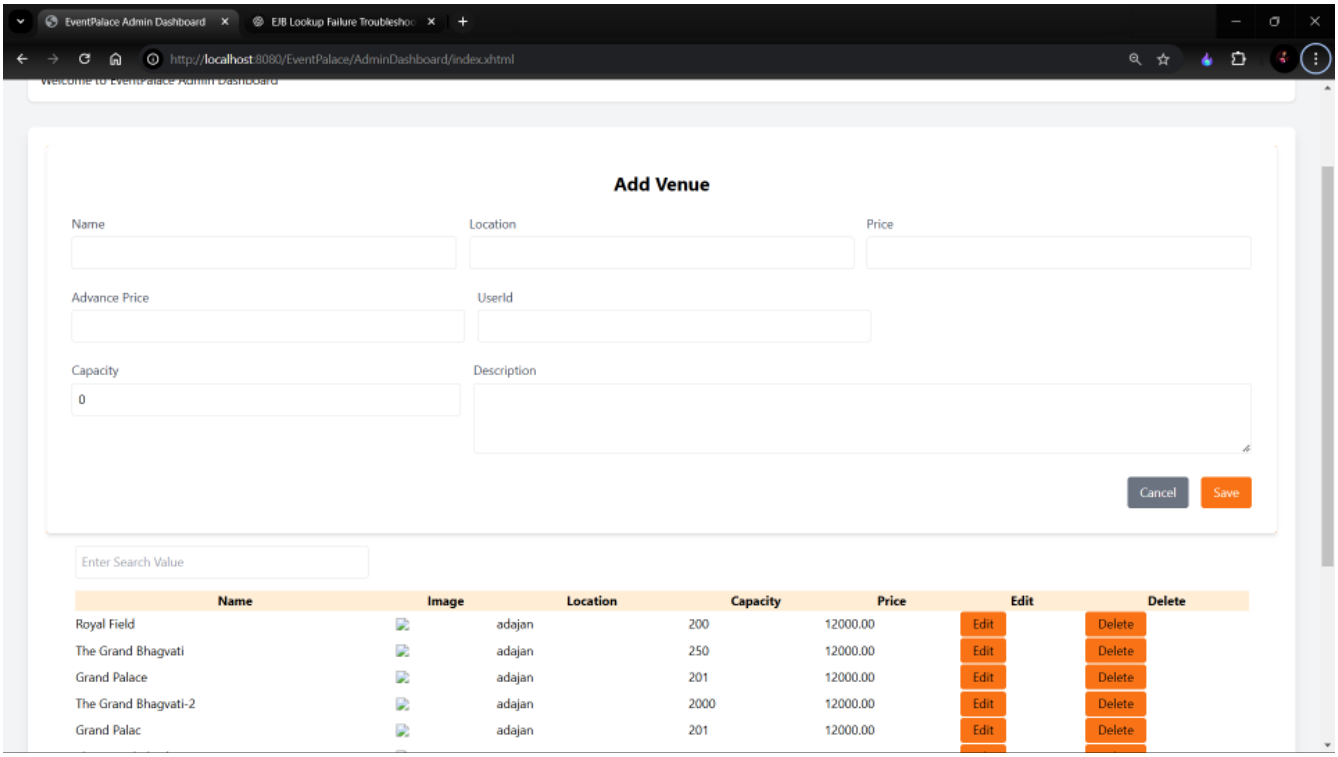
Registration page :

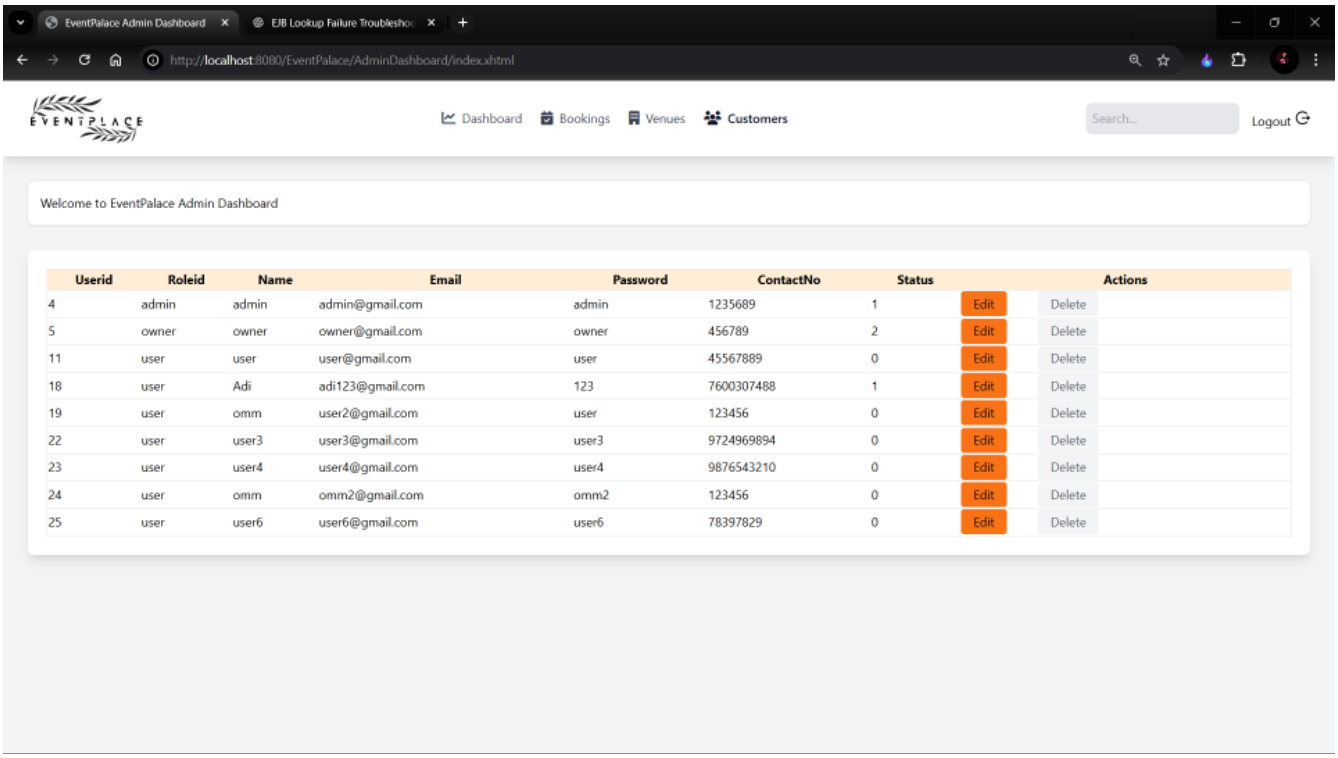


Admin:

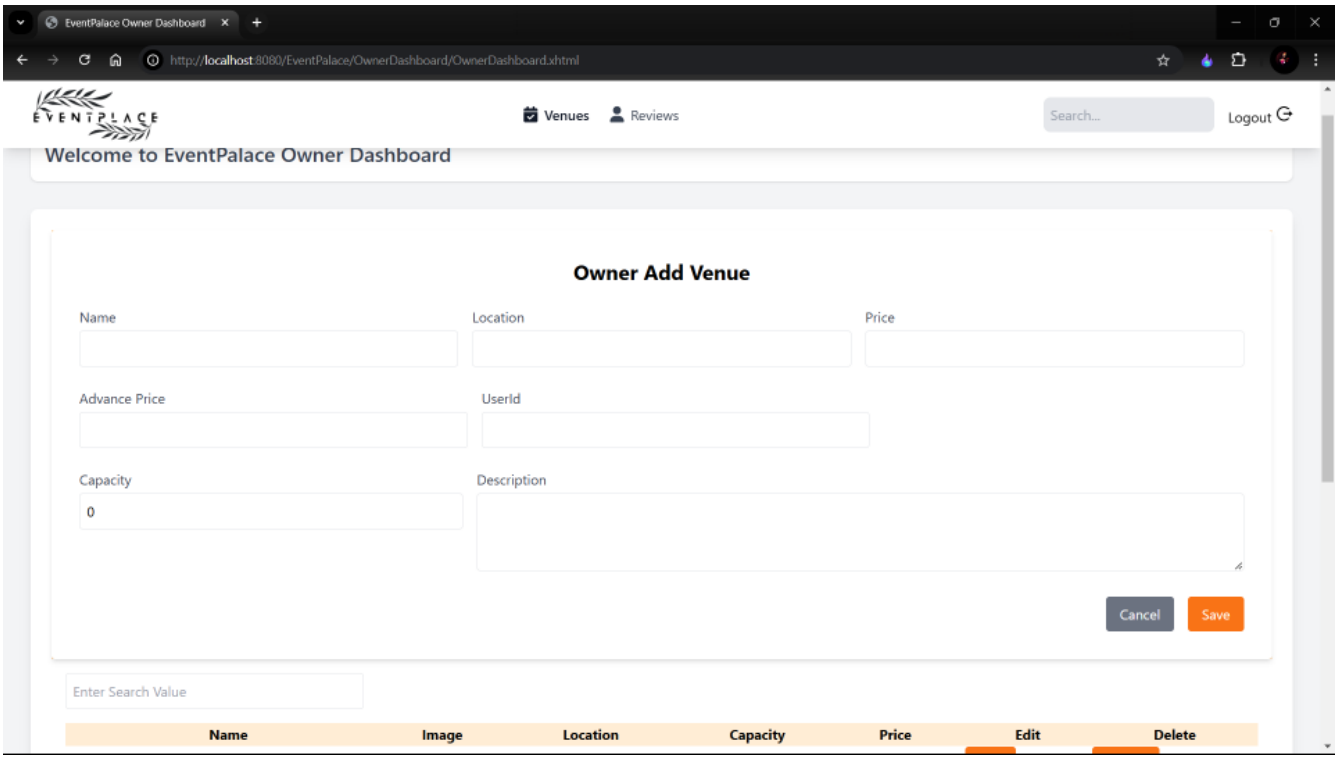

EventPalace Admin Dashboard
EJB Lookup Failure Troubleshoo
http://localhost:8080/EventPalace/AdminDashboard/index.xhtml
EVENTPLACE
Dashboard
Bookings
Venues
Customers
Search...
Logout
Welcome to EventPalace Admin Dashboard
Total Bookings
120
Pending: 10
Confirmed: 110
Revenue
$12,500
This Month
+15% from last month
User Registrations
520
New This Month: 35
Inactive Users: 50
Feedback
85
Positive: 70
Negative: 15
Revenue Chart
Revenue
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
Week 1
Week 2
Week 3
Week 4
Feedback Breakdown
Positive
Negative
Neutral
Neutral
10

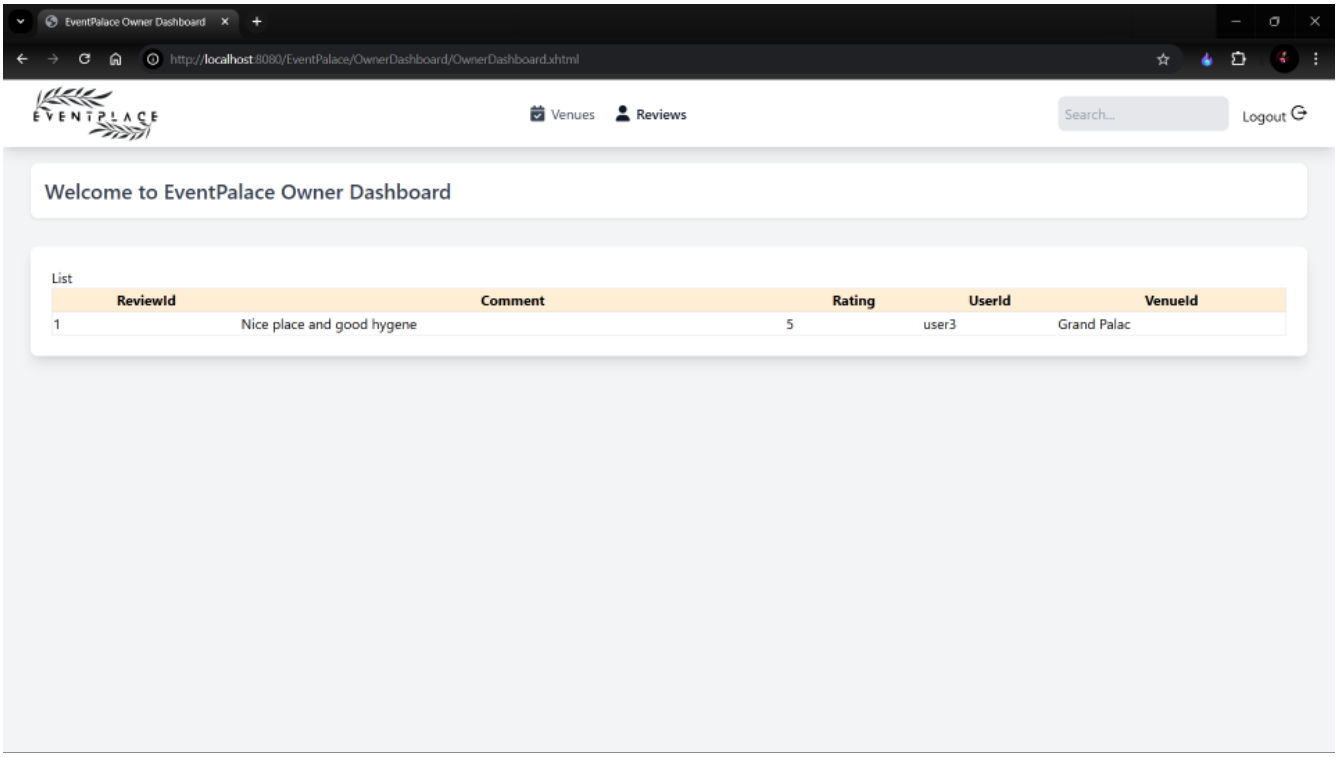

EventPalace Admin Dashboard
EJB Lookup Failure Troubleshoo
http://localhost:8080/EventPalace/AdminDashboard/index.xhtml
EVENTPLACE
Dashboard
Bookings
Venues
Customers
Search...
Logout
Welcome to EventPalace Admin Dashboard
Add Booking manually
Venue Name
Event Date
Shift
Advance Price
UserId
Event description
Cancel
Save
Bookingid Bookingdate Eventdate Eventtype UserId VenueId Shift
1 12/20/2024 12/11/2025 Birthday 22 3 Morning
2 12/21/2024 12/11/2025 Wedding 19 4 Morning
3 12/21/2024 12/11/2025 Wedding 19 1 Evening
4 12/21/2024 08/07/2025 Birthday 22 2 Afternoon
5 12/21/2024 12/11/2025 Wedding 19 4 Evening
6 12/21/2024 12/11/2025 Birthday 22 1 Morning
7 12/21/2024 12/11/2025 Birthday 11 1 Afternoon
8 12/21/2024 12/03/2025 Wedding 23 4 Evening
9 12/21/2024 12/02/2025 Birthday 23 4 Evening
10 12/21/2024 12/03/2025 Birthday 23 1 Afternoon


EventPalace Admin Dashboard
EJB Lookup Failure Troubleshoo
http://localhost:8080/EventPalace/AdminDashboard/index.xhtml
Add Venue
Name
Location
Price
Advance Price
UserId
Capacity
0
Description
Cancel
Save
Enter Search Value
Name
Image
Location
Capacity
Price
Edit
Delete
Royal Field
adajan
200
12000.00
Edit
Delete
The Grand Bhagvati
adajan
250
12000.00
Edit
Delete
Grand Palace
adajan
201
12000.00
Edit
Delete
The Grand Bhagvati-2
adajan
2000
12000.00
Edit
Delete
Grand Palac
adajan
201
12000.00
Edit
Delete


EventPalace Admin Dashboard
EJB Lookup Failure Troubleshoo
http://localhost:8080/EventPalace/AdminDashboard/index.xhtml
EVENTPLACE
Dashboard
Bookings
Venues
Customers
Search...
Logout
Welcome to EventPalace Admin Dashboard
Userid
Roleid
Name
Email
Password
ContactNo
Status
Actions
4 admin admin admin@gmail.com admin 1235689 1 Edit Delete
5 owner owner owner@gmail.com owner 456789 2 Edit Delete
11 user user user@gmail.com user 45567889 0 Edit Delete
18 user Adi adi123@gmail.com 123 7600307488 1 Edit Delete
19 user omm user2@gmail.com user 123456 0 Edit Delete
22 user user3 user3@gmail.com user3 9724969894 0 Edit Delete
23 user user4 user4@gmail.com user4 9876543210 0 Edit Delete
24 user omm omm2@gmail.com omm2 123456 0 Edit Delete
25 user user6 user6@gmail.com user6 78397829 0 Edit Delete

Owner Dashboard:





5.Testing

TEST CASE ID	DESCIPTION	INPUT	EXPECTED OUTPUT	ACTUAL OUTPUT	STATUS
Case 1.1: Case 1.2:	User Login	1.Email 2. Password	Appropriate message for invalid user Valid user should be redirected to intended page after logging	Message generated for invalid user Directed to intended page after logging	Unsuccessful Successful
Case 2: Case 2.1: Case 2.2:	User Home Page	Select the option to proceed Display the Venues Display proper layout for listing all venue	Test case would open the appropriate page as per option selected by user Test case would show the appropriate list of Venues Test case would redirect the user to intended page	Displays desired page Display proper Venues Redirect to intended page after clicking button	Successful Successful Successful

Case 3:	Package Module	Fill the details to proceed	Appropriate message for invalid details Appropriate message and relatable Course will be shown	Message generated for invalid details Display proper Courses.	Unsuccessful Successful
Case 4: Case 4.1: Case 4.2:	Details Page	Details of specific package Enrollment form Payment process	Test case would open appropriate page with the details of that Course. Test case would open appropriate page for enroll the Courses Test case would open appropriate page for payment	Details are generated Page is directed Page is redirected	Successful Successful Successful

6.Bibliography

This section provides a list of all the references, tools, technologies, frameworks, and resources that were used during the development of the EventPalace project.

Links :

1: https://www.venuebookingz.com/home

2: https://tailblocks.cc/

3: https://tailwindui.com/components/application-ui/navigation/navbars

Web Resources :

1. Stack Overflow:

o For resolving programming challenges and enhancing functionality.

o URL: https://stackoverflow.com

2. MySQL Documentation:

o For database schema optimization and SQL query examples.

o URL: https://dev.mysql.com/doc

Tools and Technologies :

1. Java: Primary programming language for system development.

2. MySQL: Database system for storing and managing project data.

3. Apache Tomcat: Server for deploying the web application.

4. NetBeans IDE: Integrated development environment used for coding and debugging.

5. Lucidchart: Tool for creating system diagrams such as ERDs and Use Case Diagrams.

6. Postman: For testing and validating APIs during development.