# EVENT EASE

## A PROJECT REPORT

*Submitted by*

**Mahir Kadivar - 92300938023**

**Mohib Khorajiya - 92300938024**

**Sarth Vaghela - 92300938025**

**Sunera Sherasiya - 92300938028**

*In partial fulfilment for the award of the degree of*

**DIPLOMA ENGINEERING**

*in*

**Computer Engineering**


**Faculty of Diploma Studies**

**Marwadi University, Rajkot**

**Marwadi University, Rajkot**

**Faculty of Diploma Studies**

Computer Engineering Department

**2025-26**

# CERTIFICATE

This is to certify that the project entitled **EVENT EASE** has been carried out by **Mahir Kadivar (92300938023)** under my guidance in partial fulfilment of the degree of Diploma Engineering in Computer Engineering (6th Semester) of Marwadi University, Rajkot during the academic year 2025-26.

Date:

| **Internal Guide** | **Head of the Department** |
| --- | --- |
| Prof. Kruti Rathod | Prof. Smit Thacker |
| Assistant Professor | Computer Engineering |

**Marwadi University, Rajkot**

**Faculty of Diploma Studies**

Computer Engineering Department

**2025-26**

# CERTIFICATE

This is to certify that the project entitled **EVENT EASE** has been carried out by **Mohib Khorajiya (92300938024)** under my guidance in partial fulfilment of the degree of Diploma Engineering in Computer Engineering (6th Semester) of Marwadi University, Rajkot during the academic year 2025-26.

Date:

| **Internal Guide** | **Head of the Department** |
| --- | --- |
| Prof. Kruti Rathod | Prof. Smit Thacker |
| Assistant Professor | Computer Engineering |

**Marwadi University, Rajkot**

**Faculty of Diploma Studies**

Computer Engineering Department

**2025-26**

# CERTIFICATE

This is to certify that the project entitled **EVENT EASE** has been carried out by **Sarth Vaghela (92300938025)** under my guidance in partial fulfilment of the degree of Diploma Engineering in Computer Engineering (6th Semester) of Marwadi University, Rajkot during the academic year 2025-26.

Date:

| **Internal Guide** | **Head of the Department** |
| --- | --- |
| Prof. Kruti Rathod | Prof. Smit Thacker |
| Assistant Professor | Computer Engineering |

**Marwadi University, Rajkot**

**Faculty of Diploma Studies**

Computer Engineering Department

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# CERTIFICATE

This is to certify that the project entitled **EVENT EASE** has been carried out by **Sunera Sherasiya (92300938028)** under my guidance in partial fulfilment of the degree of Diploma Engineering in Computer Engineering (6th Semester) of Marwadi University, Rajkot during the academic year 2025-26.

Date:

| **Internal Guide** | **Head of the Department** |
| --- | --- |
| Prof. Kruti Rathod | Prof. Smit Thacker |
| Assistant Professor | Computer Engineering |

# Contents


**Acknowledgements** **I**

**Abstract** **II**

**List of Tables** **III**

**List of Figures** **IV**

**1. Introduction** **13**

1.1. Document purpose 14

1.2. Product scope 14

1.3. Intended audience and document overview 15

1.4. Definitions and abbreviations 15

1.5. Document conventions 16

1.6. References and acknowledgments 16

**2. Overall description** **17**

2.1. Product perspective 17

2.2. Product functionality 18

2.3. Users and characteristics 20

2.4. Operating environment 20

2.5. Design and implementation constraints 21

2.6. User documentation 21

2.7. Assumptions and dependencies 21

**3. Specific requirements** **22**

3.1. External interface requirements 22

3.2. Functional requirements 23

3.3. Behavior requirements 24

**4. Other non-functional requirements** **26**

4.1. Performance requirements 26

4.2. Safety and security requirements 26

4.3. Software quality attributes 26

**5. Other requirements** **28**

**Appendix A – Data Dictionary** **30**

**Appendix B – Plagiarism Report** **34**

**Appendix C – User Manual** **35**

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Mahir Kadivar - 92300938023

Mohib Khorajiya - 92300938024

Sarth Vaghela - 92300938025

Sunera Sherasiya - 92300938028

# Abstract

*The advancement of technology has transformed the way events are organized, managed, and experienced. Traditional event booking and management systems often involve time-consuming processes, limited accessibility, and manual errors, making it difficult for users and organizers to handle multiple tasks effectively. To overcome these limitations,* ***Event Ease*** *has been designed as a smart, reliable, and user-friendly platform that digitizes the entire process of event management. The system provides an all-in-one solution for event registration, booking, payments, and feedback management, making the event experience more efficient and convenient.*

*The primary objective of Event Ease is to simplify the process of exploring and booking events by providing an intuitive web-based interface. Users can register, browse categorized events, book tickets, and add optional services such as food packages or transport facilities. Secure transactions are ensured through an integrated payment system, and tickets are generated instantly with a dynamic QR code for authentication. Along with booking, users can access their dashboard to manage event history, download tickets, and provide feedback, ensuring a seamless and interactive user journey.*

*From the administrative perspective, the platform includes a role-based* ***Admin Panel*** *and* ***Manager Panel****. These features allow authorized personnel to manage event details, approve bookings, handle add-ons, monitor payments, and maintain event galleries. This ensures transparency, effective coordination, and real-time management of event operations. Additionally, feedback and rating mechanisms encourage continuous improvement and help build user trust in the platform.*

*The system is developed using* ***HTML, CSS, JavaScript, Bootstrap*** *for front-end design,* ***PHP*** *for server-side programming, and* ***MySQL*** *for secure database management. By combining responsive design, automation, and security, Event Ease delivers a comprehensive digital solution for modern event planning. Overall, the project not only enhances user convenience but also provides event organizers with a powerful tool for efficient management, thereby bridging the gap between technology and event services.*

# List of Table


1. Table 1.4.1 Abbreviation Table ..... 15
2. Table 1 Category ..... 30
3. Table 2 Events ..... 30
4. Table 3 Gallery ..... 30
5. Table 4 Add_ons ..... 31
6. Table 5 Bookings ..... 31
7. Table 6 Tickets ..... 31
8. Table 7 Event by User ..... 32
9. Table 8 Event Plans by Manager ..... 32
10. Table 9 Feedback ..... 32
11. Table 10 Users ..... 33

# List of Figures


1. Figure 1.1 Use case Diagram ..... 1
2. Figure 2.1 E.R Diagram..... 2
3. Figure 3.1 User Activity Diagram ..... 3
4. Figure 4.1 Manager Activity Diagram ..... 4
5. Figure 5.1 Admin Activity Diagram ..... 5
6. Figure 6.1 Sequence Diagram..... 6
7. Figure 7.1 DFD Diagram(Level 0) ..... 7
8. Figure 7.2 DFD Diagram(Level 1)..... 7
9. Figure 7.3 DFD Diagram(Level 2)..... 8
10. Figure 8.1 Class Diagram ..... 9
11. Figure 9.1 User Flowchart Diagram ..... 10
12. Figure 10.1 Manager Flowchart Diagram ..... 11
13. Figure 11.1 Admin Flowchart Diagram ..... 12
14. Figure 12.1 Use Case View Diagram ..... 25

## 1. Use Case Diagram

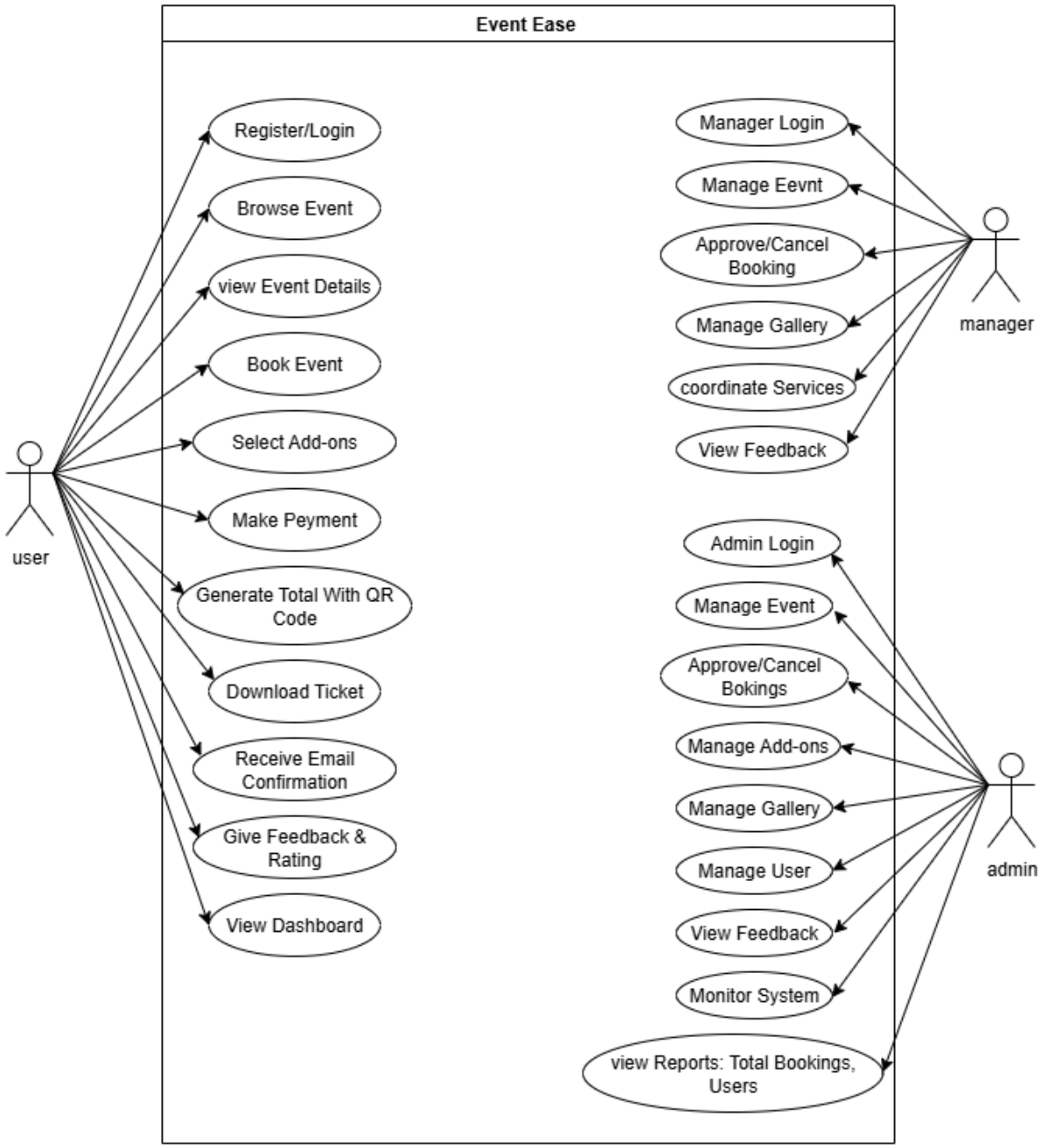


*Figure 1.1 Use Case Diagram*

## 2. ER Diagram

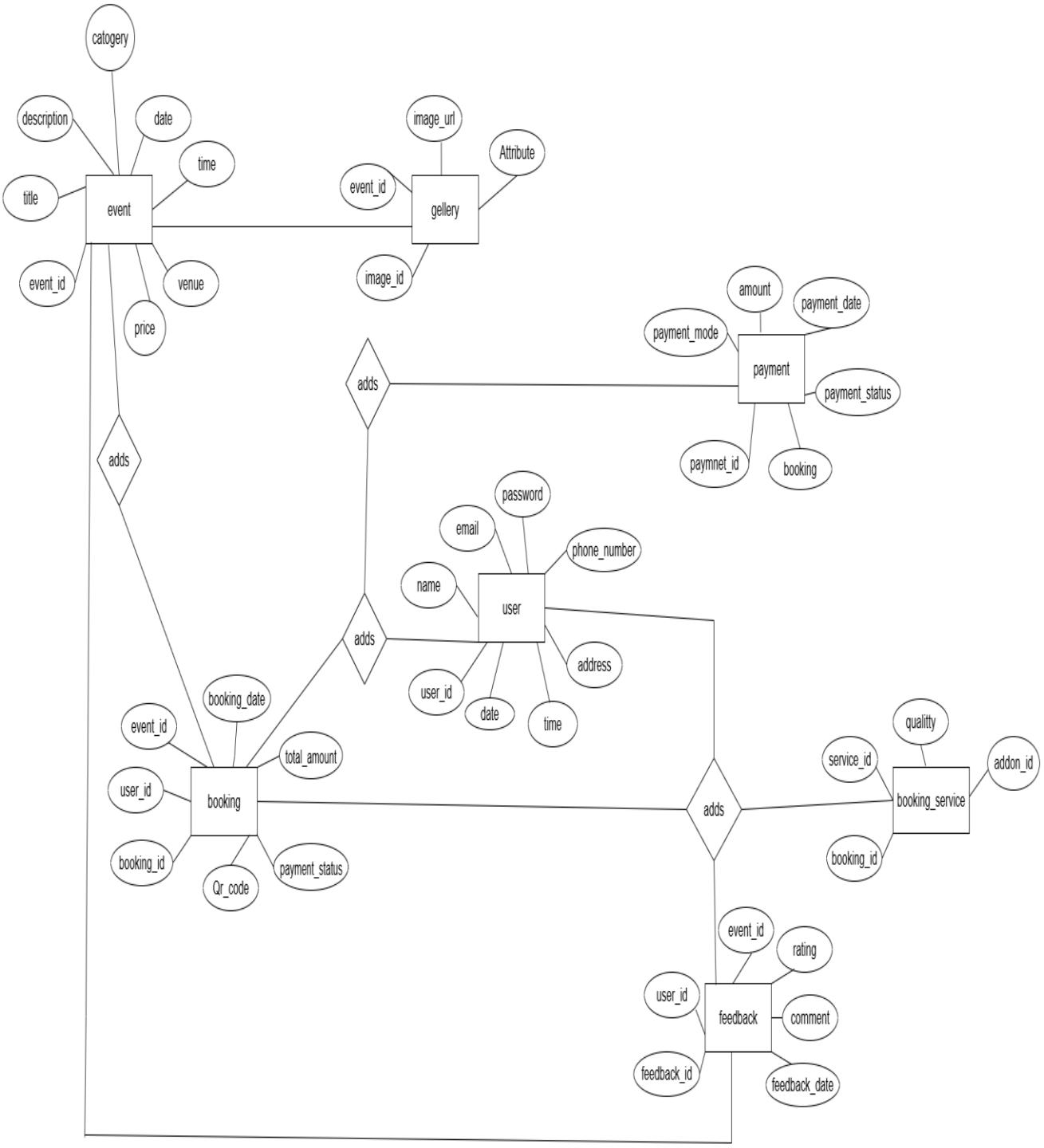


*Figure 2.1 E.R Diagram*

### 3. User Activity Diagram

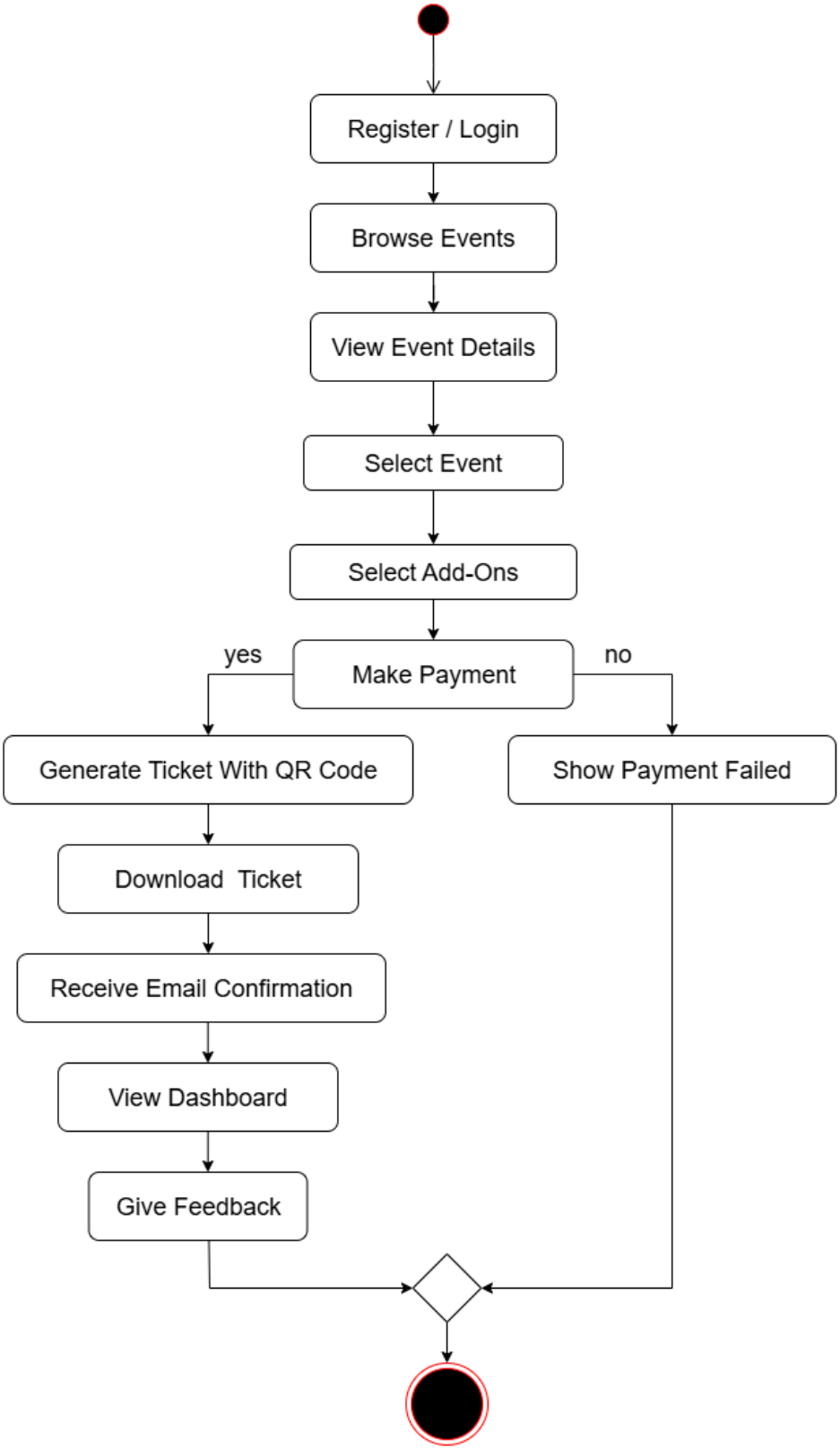


*Figure 3.1 User Activity Diagram*

## 4. Manager Activity Diagram

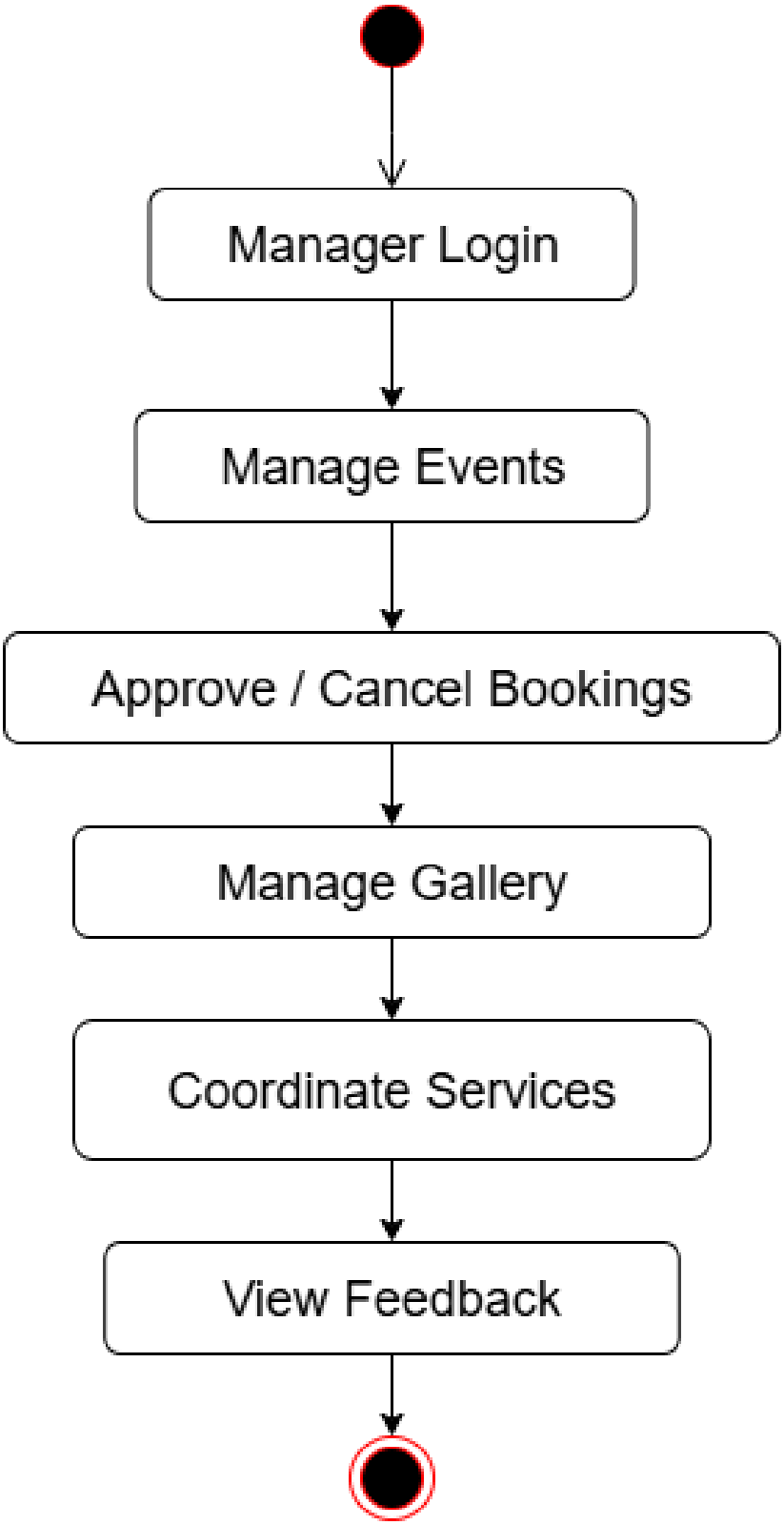


*Figure 4.1 Manager Activity Diagram*

## 5. Admin Activity Diagram

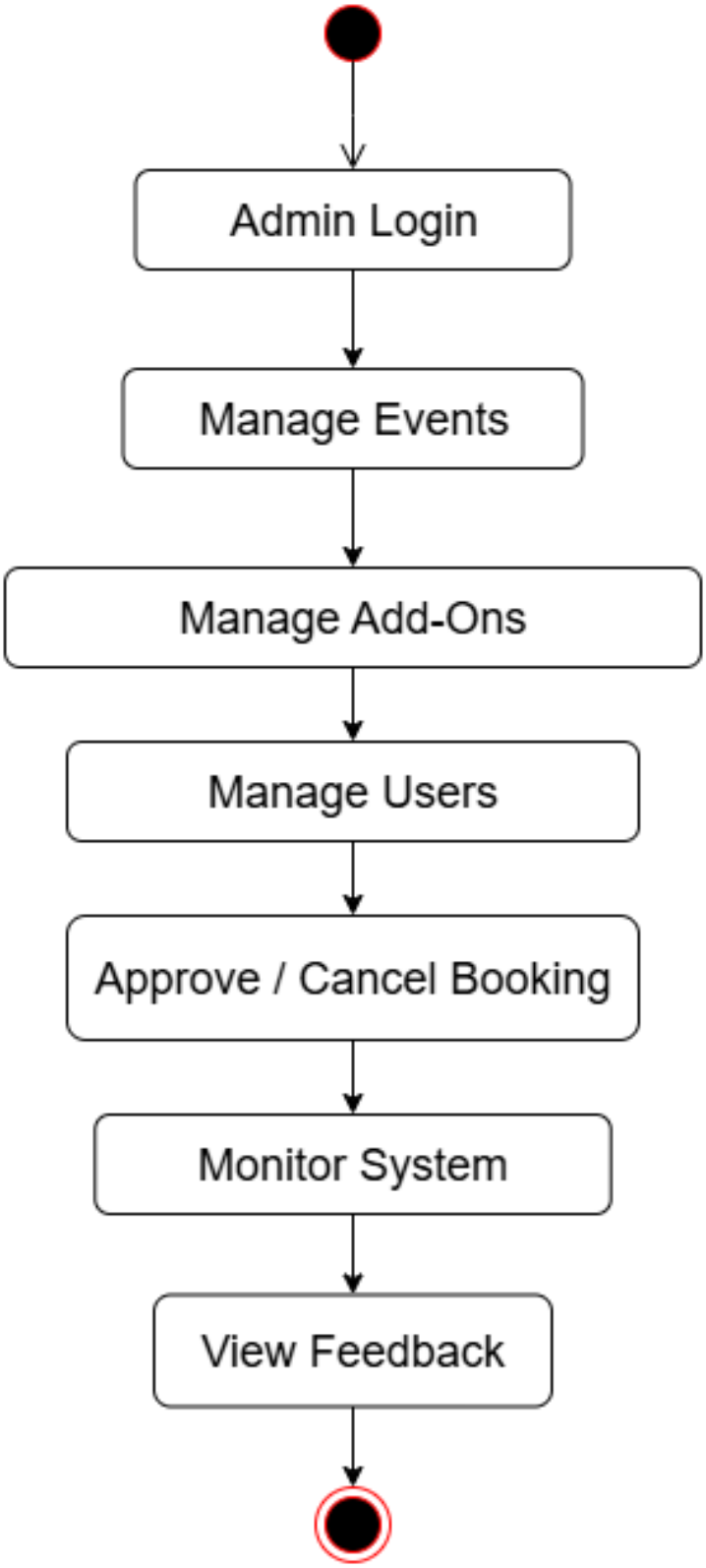


*Figure 5.1 Admin Activity Diagram*

## 6. Sequence Diagram

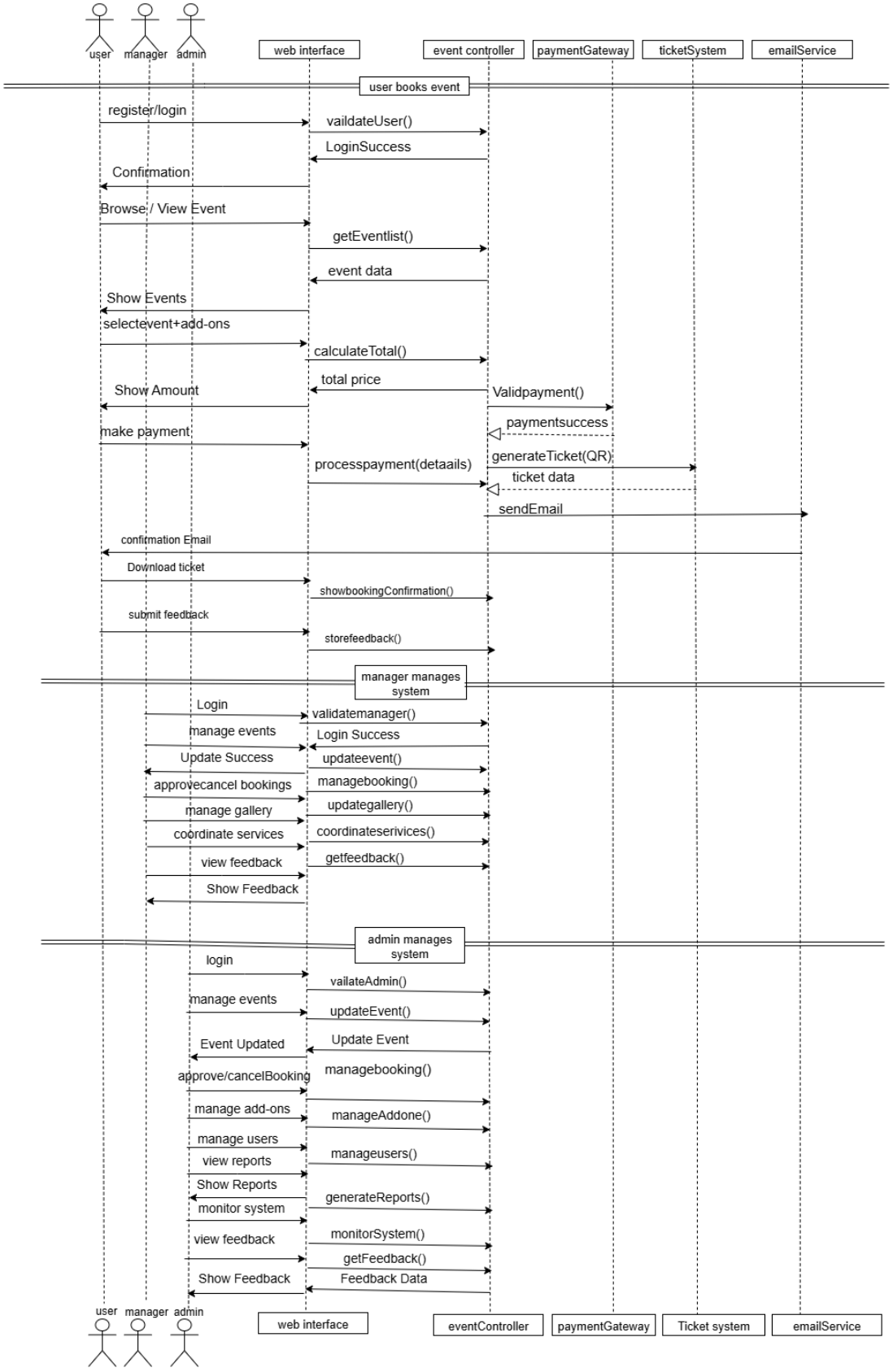


*Figure 6.1 Sequence Diagram*

## 7. DFD Diagram(Level 0)

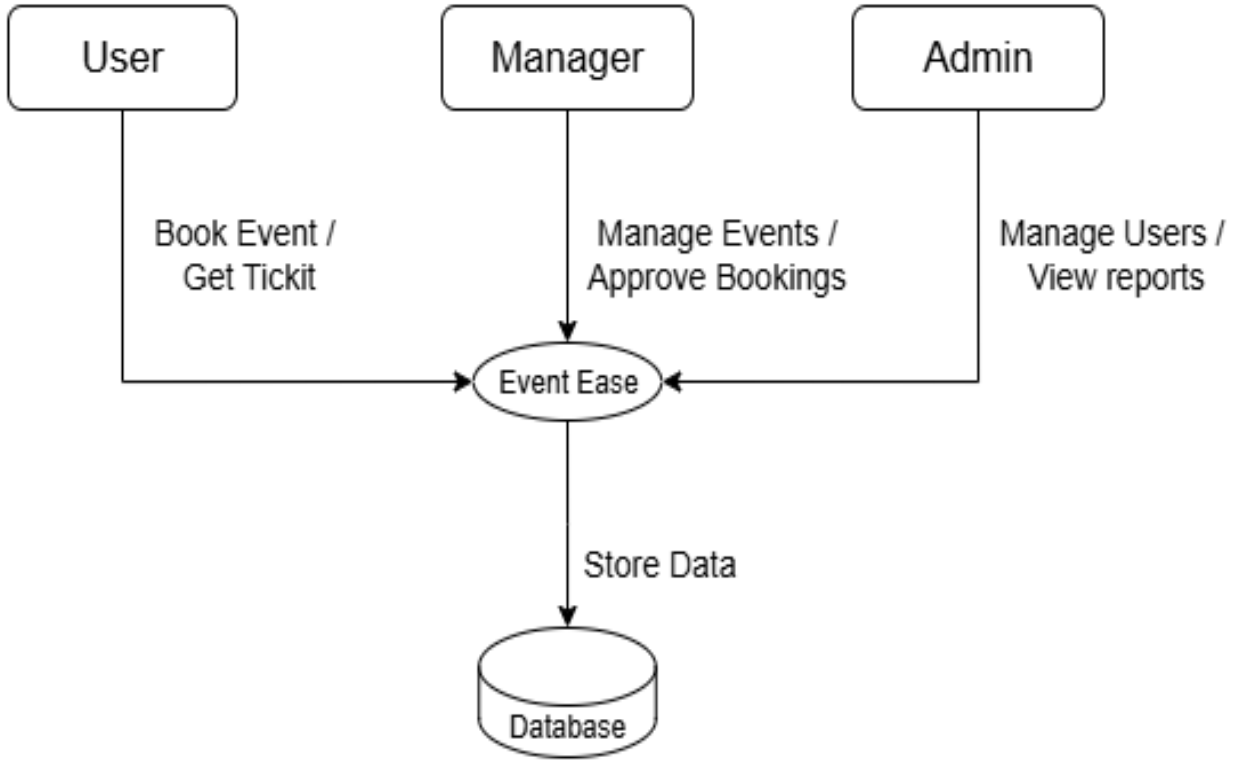


*Figure 7.1 DFD Diagram(Level 0)*

## 8. DFD Diagram(Level 1)

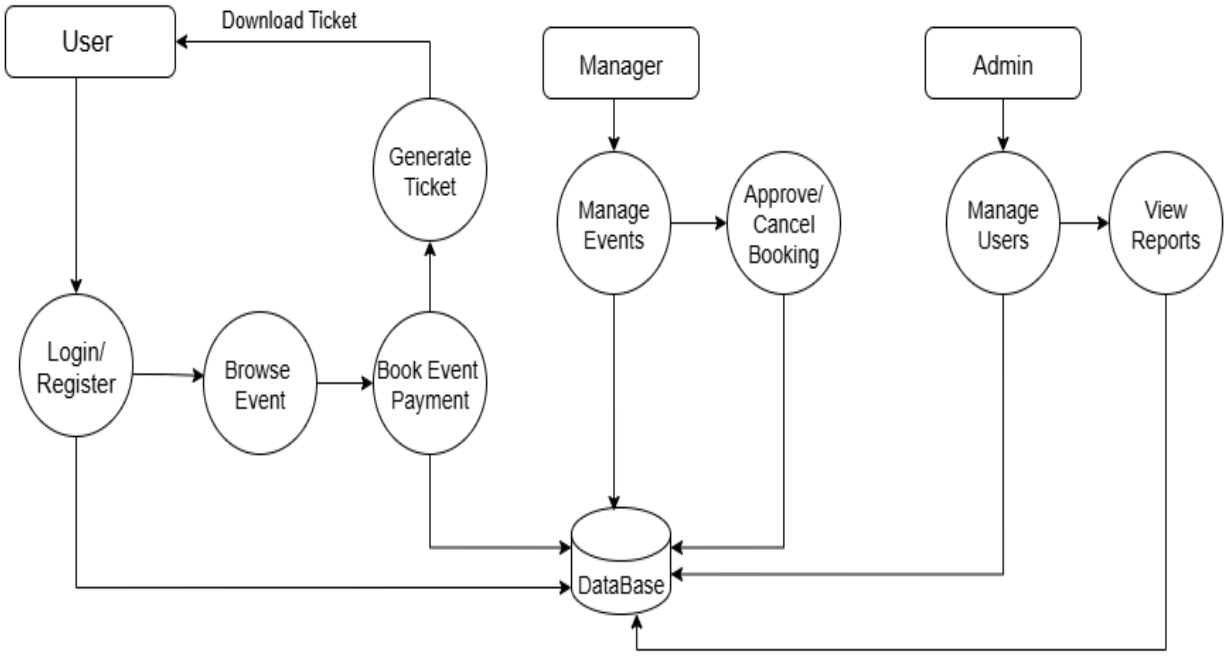


*Figure 7.2 DFD Diagram(Level 1)*

## 9. DFD Diagram(Level 2)

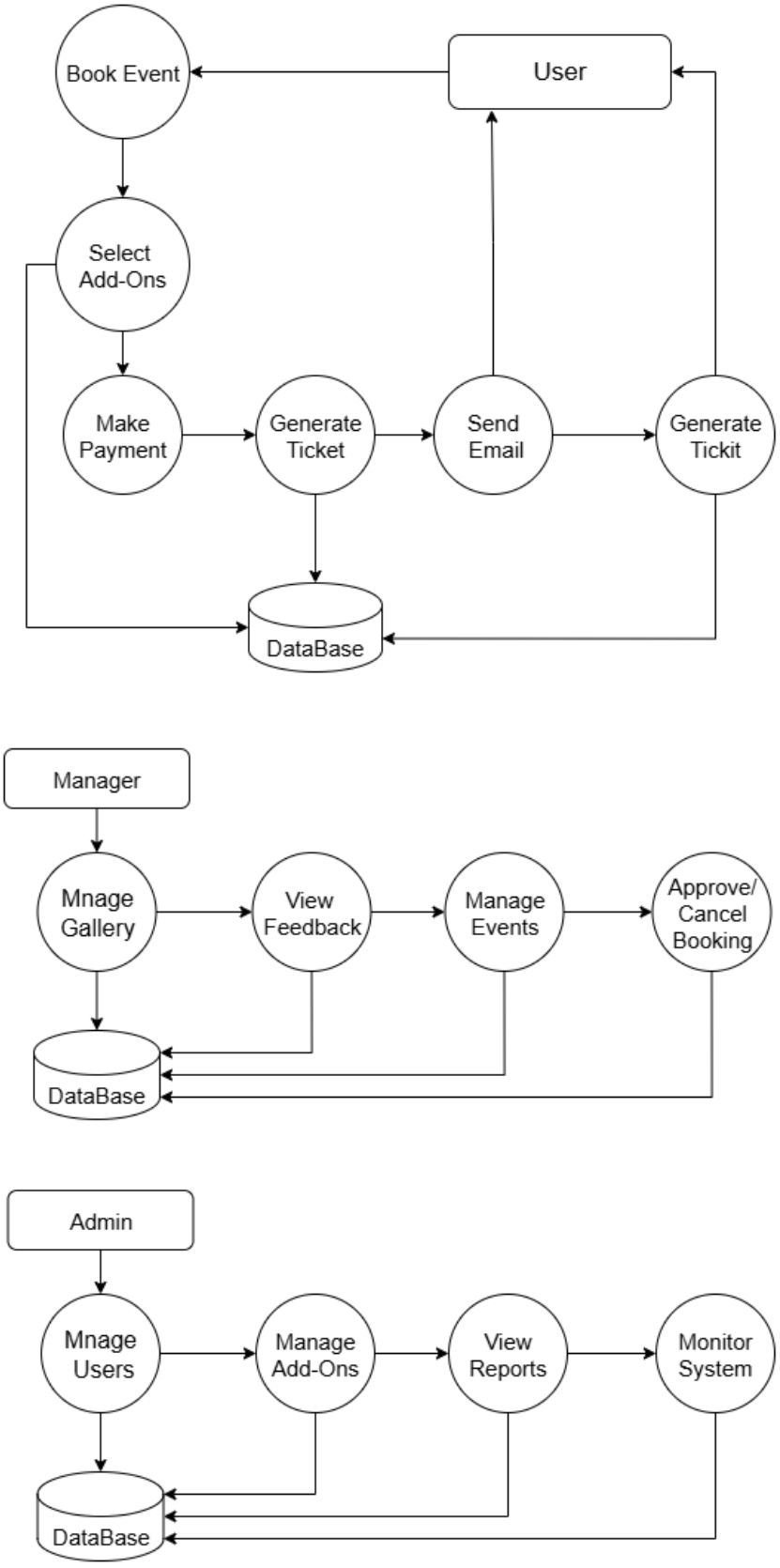


*Figure 7.3 DFD Diagram(Level 2)*

## 10. Class Diagram

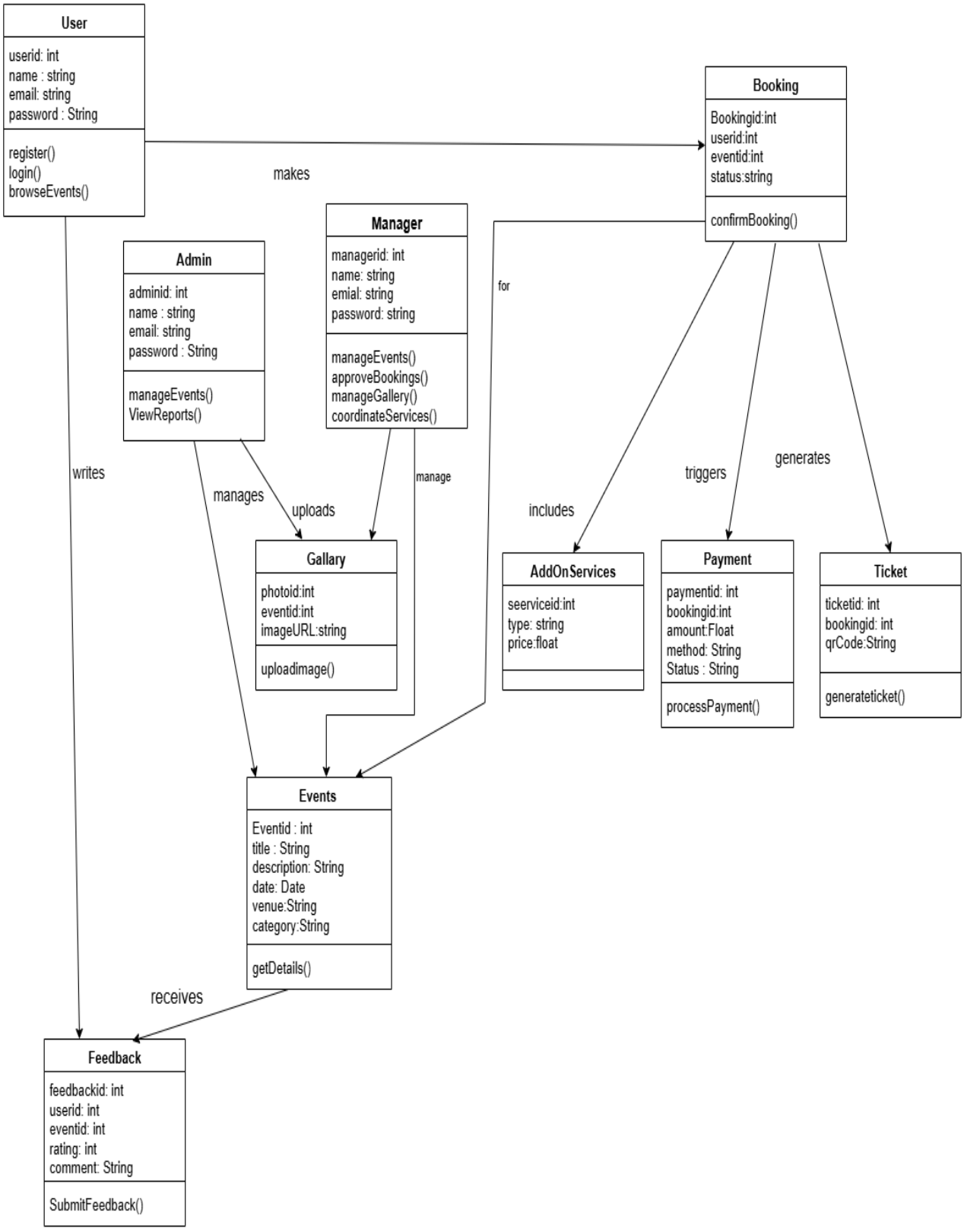


*Figure 8.1 Class Diagram*

## 11. User Flowchart Diagram

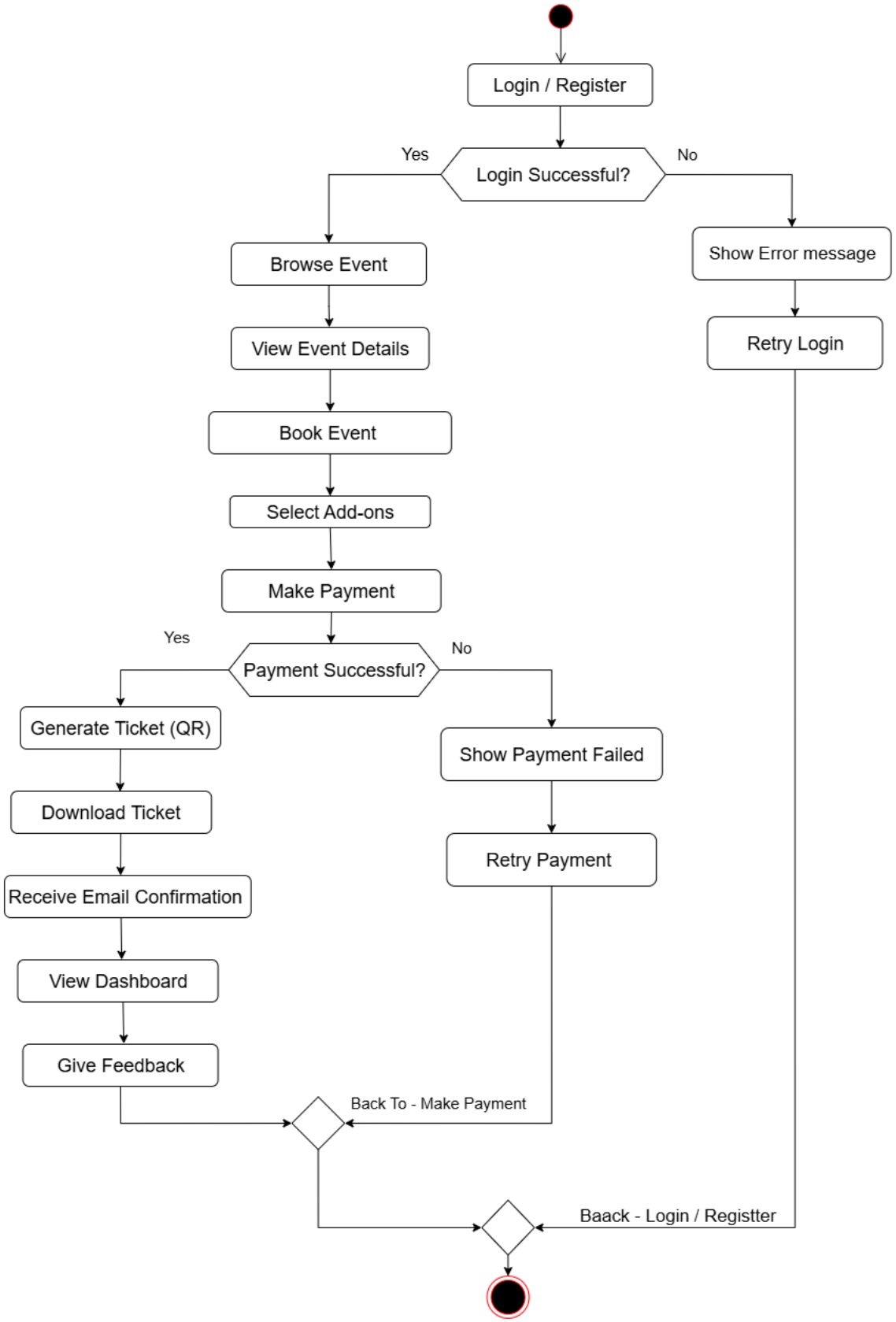


*Figure 9.1 User Flowchart Diagram*

**12. Manager Flowchart Diagram**

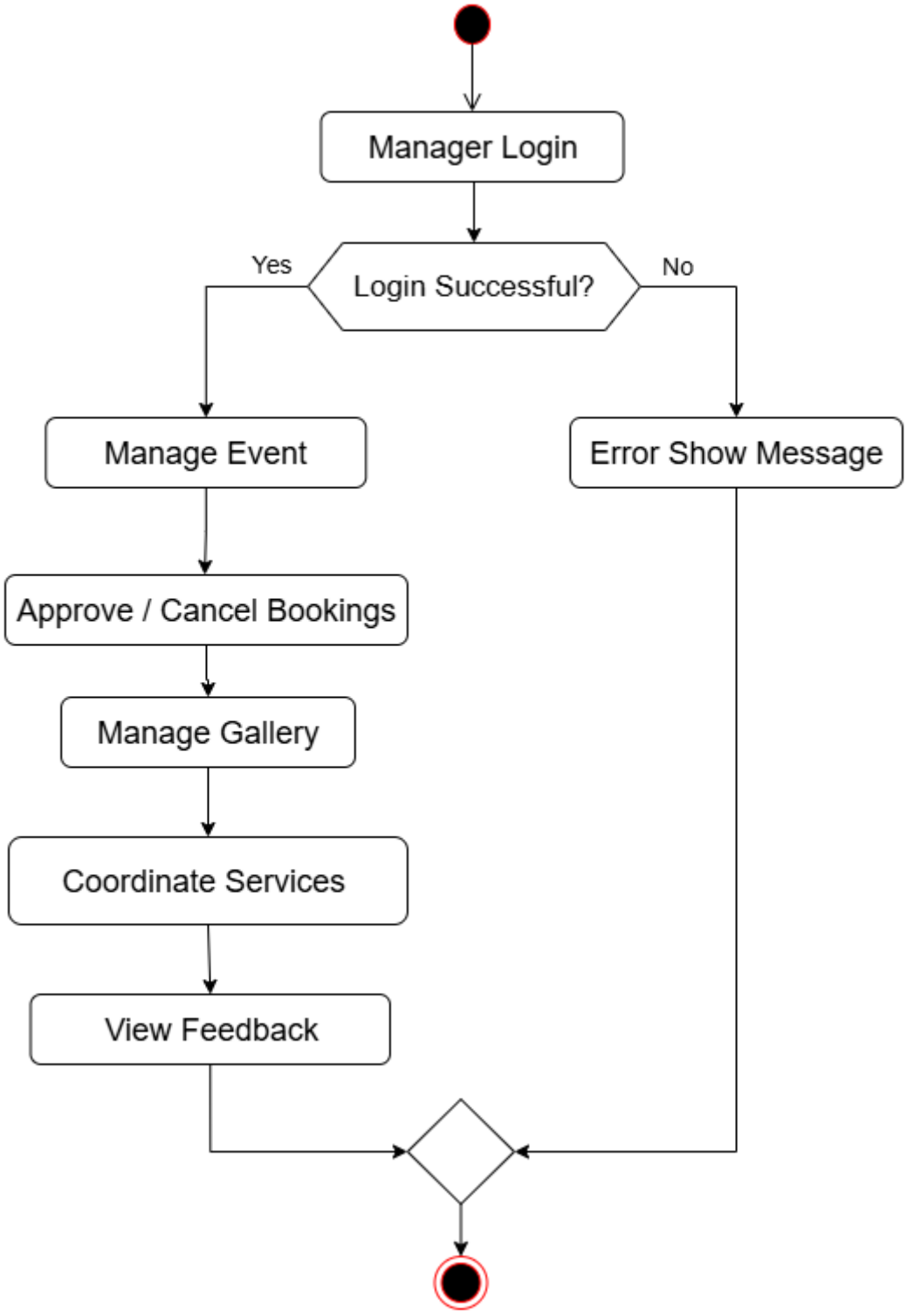


*Figure 10.1 Manager Flowchart Diagram*

**13. Admin Flowchart Diagram**

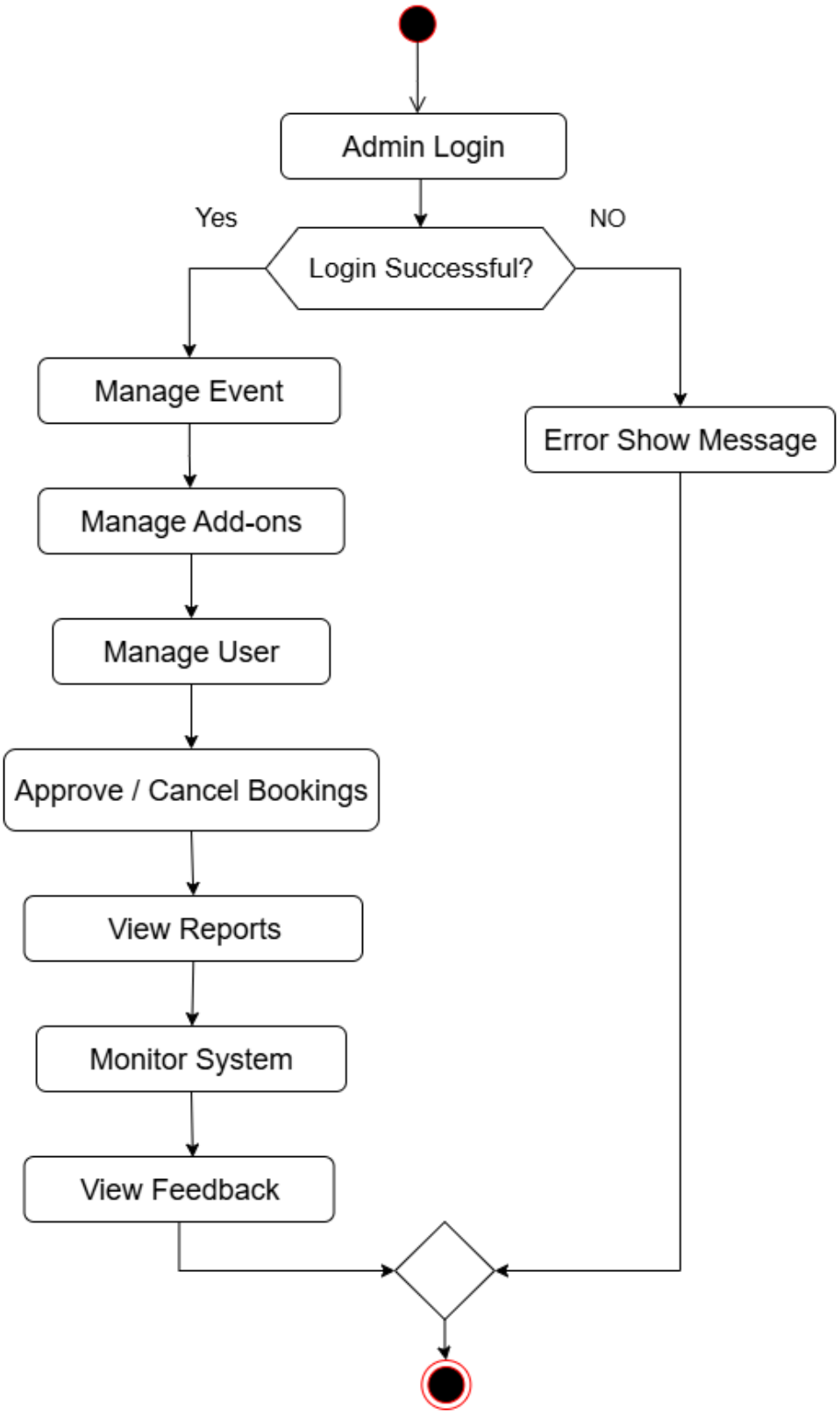


*Figure 11.1 Admin Flowchart Diagram*

# 1. Introduction

Event management plays an important role in today's world, where technology is rapidly transforming how people plan, organize, and participate in events. Traditional methods often involve manual processes that are time-consuming, less efficient, and prone to errors. To overcome these challenges, the project **"Event Ease"** has been developed as a digital solution that simplifies event booking and management. It provides a platform that benefits both end-users and organizers by automating key processes and ensuring a seamless, secure, and user-friendly experience.

In modern digital ecosystems, event management systems are evolving into complete automation platforms that combine user experience, operational efficiency, and advanced security. Event Ease aims to eliminate the communication gaps between organizers and participants by offering real-time updates, automated ticket generation, and seamless data management. As the demand for virtual and hybrid events increases, a reliable digital solution becomes essential for ensuring error-free operations.

Event Ease also addresses the challenges related to large-scale events, such as managing dynamic participant lists, last-minute changes, and secure entry validation. By supporting multiple user roles, the platform ensures that users, managers, and administrators can collaborate through a unified system. This promotes transparency, improves coordination, and ensures that every task—from registration to event completion—is streamlined.

The introduction of QR-based ticketing further enhances safety by reducing physical contact and minimizing fraud. The system's structured workflow ensures that both private and public events can be managed with higher precision. As technology adoption increases, systems like Event Ease become critical in supporting institutions, communities, and businesses in delivering professionally managed events.

Event management has evolved into a fast-growing digital service sector where efficiency, accuracy, and user experience define the success of any event. In earlier systems, event planning involved multiple offline interactions, repetitive phone calls, physical visits, and manual documentation, which often resulted in confusion, delays, and communication gaps. As technology advanced, the need for a centralized and accessible digital platform became essential to streamline these activities. **Event Ease** was conceptualized to eliminate these traditional challenges and provide a unified solution for event discovery, planning, booking, and administration.

Modern users expect quick access to information, transparent pricing, and the ability to make decisions instantly from their devices. Similarly, event organizers require structured tools that help them manage bookings, communicate with users, track payments, and monitor event progress. Event Ease bridges this gap by introducing a fully automated workflow that integrates users, managers, and administrators into a single digital framework.

In addition, today's event industry handles diverse categories such as social celebrations, professional gatherings, cultural functions, academic events, and corporate activities. Each category demands customized planning, multiple resources, and strict timelines. Event Ease simplifies these dynamic requirements by providing modular components that can be adapted based on user needs. Features such as QR-based ticketing, add-on customization, digital payments, and real-time approval systems further enhance reliability and safety.

Overall, Event Ease aims not only to automate event management but also to redefine the quality of user experience through accessibility, transparency, and structured coordination.

## 1.1 Document Purpose

The purpose of this document is to define the software requirements for the project **Event Ease**, a web-based event management system. This document specifies the functionalities, design goals, and operating environment of the system. It serves as a reference for both developers and evaluators, ensuring clarity in project objectives and deliverables. The report outlines the scope, constraints, and assumptions involved, providing a structured approach for implementation and evaluation.

## 1.2 Product Scope

Event Ease is a smart and user-friendly event management platform developed to automate and digitize the entire process of event booking, ticketing, and administration. The system allows users to browse events, book tickets, select add-on services, and make secure payments online. On the organizer side, administrators and managers can manage event details, control booking requests, handle payments, and review user feedback. By integrating modern technologies such as **HTML, CSS, JavaScript, Bootstrap, PHP, and MySQL**, the system ensures responsiveness, reliability, and security. The project aims to reduce manual work, eliminate inefficiencies, and enhance the overall event experience for both users and organizers.

## 1.3 Intended Audience and Document Overview

The intended audience of this document includes:

- **Faculty and Evaluators**: To assess the project's objectives, design, and implementation.
- **Students and Developers**: To understand the requirements, technologies used, and the overall system design.
- **Event Organizers**: To explore how the system can streamline real-world event management.

The document is organized into sections covering overall description, specific requirements, external interface requirements, and design constraints. It also includes diagrams, data dictionaries, and references to provide a complete understanding of the system.

## 1.4 Definitions and Abbreviations

*Table 1.4.1 Abbreviations Table*

| Sr. No. | Term / Abbreviation | Full Form / Definition |
|---|---|---|
| 1 | UI | User Interface — The visual part of the system through which users interact with webpages and system components. |
| 2 | DBMS | Database Management System — Software used to store, organize, and manage database operations securely. |
| 3 | QR Code | Quick Response Code — A machine-scannable code generated for ticket verification and event authentication. |
| 4 | Admin Panel | A dedicated system module used by administrators to manage events, bookings, users, payments, and system settings. |
| 5 | MySQL | Structured Query Language–based relational database used for storing and retrieving structured data. |
| 6 | PHP | Hypertext Preprocessor — A server-side scripting language used to handle backend logic and server communication. |

## 1.5 Document Conventions

This document follows **IEEE standards** for software requirements specification (SRS). The formatting conventions used are:

- **Font Style**: Arial, size 11 or 12
- **Headings**: Bold, consistent with section numbering
- **Spacing**: Single-line spacing with standard margins
- **Diagrams**: Use of standard UML notations such as Use Case Diagrams, ER Diagrams, and Activity Diagrams

## 1.6 References and Acknowledgments

• If information from this AI-assisted conversation or online platforms is referenced within the report, it can be cited as:

**Detailed References:**

Official PHP Documentation – https://www.php.net/docs.php

MySQL Reference Manual – https://dev.mysql.com/doc/

W3Schools Web Tutorials – https://www.w3schools.com

Bootstrap Documentation – https://getbootstrap.com/docs

Stack Overflow – https://stackoverflow.com

Draw.io – https://app.diagrams.net (for UML diagrams)

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# 2. Overall Description

## 2.1 Product Perspective

Event Ease is a new, self-contained web-based application designed to digitize the process of event booking and management. It is not a modification of an existing system but a fresh solution aimed at addressing inefficiencies in traditional event management methods. The platform integrates various modules such as user registration, event booking, add-on services, payment gateway, ticket generation with QR codes, and feedback collection. It also provides an Admin Panel and Manager Panel for organizers to manage events and ensure smooth coordination.

Event Ease operates as a centralized hub that brings together event discovery, booking, payment, and management. The system's modular nature allows different components—such as booking engine, add-on services, ticketing, and feedback—to function both independently and collectively. This modularity supports future scalability and ensures that any new features can be integrated without affecting existing functionality.

Unlike traditional management systems where manual coordination causes delays and inaccuracies, Event Ease introduces automation at every level. The interface is designed to reduce cognitive load on users, allowing them to complete complex tasks such as booking and payment with minimal steps. By supporting responsive design, the system ensures consistent performance across devices, improving accessibility for all types of users.

Event Ease is developed as an independent web-based ecosystem that unifies different aspects of event planning into a structured and interconnected environment. The platform follows a modular architecture where each component—such as registration, booking, gallery, ticketing, payment processing, and feedback—operates independently but contributes to the overall system workflow.

Unlike conventional event systems where operations are handled manually, Event Ease uses a layered software approach. The **presentation layer** focuses on delivering a visually clear, responsive UI for users, managers, and admins. The **business logic layer** controls workflows such as ticket generation, booking approvals, add-on calculations, and email notifications. The **data layer** manages structured information storage through a relational MySQL database.

The system introduces seamless interaction between multiple roles:

- **Users** can browse events, analyze details, select add-ons, and complete bookings without external assistance.

- **Managers** get a dedicated panel to handle operational decisions such as approval, preparation, and event progress tracking.
- **Administrators** maintain complete authority over the system to manage events, users, payments, and platform settings.

This layered and role-based design ensures that updates in one part of the system automatically reflect across all panels, reducing data redundancy and improving transparency.

Event Ease is also built keeping scalability in mind. New modules such as vendor onboarding, automated event reminders, or AI-based recommendations can be integrated without changing the existing structure. This makes the system future-ready for expansions in both functionality and user base.

## 2.2 Product Functionality

The major functions of the system include:

- User registration and secure login.
- Event browsing and booking based on categories, date, or popularity.
- Selection of optional services such as food packages and transport facilities.
- Secure online payments with instant ticket generation and QR code verification.
- User dashboard to view booking history, download tickets, and provide feedback.
- Admin Panel to manage events, users, services, payments, and gallery updates.
- Manager Panel for operational tasks such as event approval, updates, and coordination.

Along with its core features, the platform ensures real-time synchronization of booking status, availability, and event information. When a user books an event or selects an add-on service, the updates are instantly reflected on the manager and admin dashboards. This prevents duplicate bookings and ensures efficient inventory control for add-on services like food and transportation.

Furthermore, the platform supports data-driven decision-making by capturing user activity such as most viewed events, popular dates, and frequently chosen services. This data can help organizers analyze demand and improve event planning strategies.

Event Ease delivers a wide range of features designed to simplify and automate every phase of event management. The platform supports three major operational areas—user operations, organizer operations, and system administration.

**User-side Functionalities:**

- **Event Discovery:** Users can explore events based on category, date, budget, or popularity.
- **Advanced Event Details:** Each event includes descriptions, highlights, included services, organizer details, and visual previews.
- **Add-on Selection:** Users can personalize their event experience by selecting food packages, transportation services, decoration themes, and other add-ons.
- **Secure Booking:** After selecting event and services, users can finalize their booking through a secure and guided checkout process.
- **Digital Payment:** The system validates payments and ensures transparency with itemized billing.
- **Instant Ticket Creation:** Once payment is confirmed, a digital ticket with a unique QR code is generated and stored in the user dashboard.
- **Self-Service Dashboard:** Users can access booking history, download tickets, resend confirmation emails, and submit feedback.

**Manager-side Functionalities:**

- **Booking Approval Panel:** Managers can verify user bookings, check add-ons, and approve or decline based on event availability.
- **Operational Planning:** Managers can update event plans, assign tasks, track progress, and communicate with admins.
- **Add-on Management:** The manager can monitor availability, update pricing, and ensure that service requests are fulfilled on time.
- **Payment Monitoring:** They can review completed and pending payments to maintain financial transparency.

**Admin-side Functionalities:**

- **Event Management:** Admins can create, update, categorize, or remove events.
- **User Management:** Control user accounts, reset access, and resolve disputes.
- **Manager Assignment:** Admins allocate managers to events for on-ground operations.
- **System Oversight:** Monitor platform performance, financial records, feedback, and gallery content.
- **Business Analytics:** Administrators can track overall bookings, revenue, user growth, and event trends.

Combined, these functionalities offer a complete end-to-end digital event ecosystem.

## 2.3 Users and Characteristics

- **End Users (Participants):** Individuals who wish to explore and book events. They need a simple, secure, and intuitive interface.
- **Administrators:** Authorized personnel responsible for overall system management, including events, users, payments, and services. They require role-based access with advanced control features.
- **Managers:** Staff members who handle on-ground event operations, approvals, and updates. They require tools for coordination and task management.
- **Faculty & Evaluators (for academic purpose):** Review the project design, functionality, and documentation.

Each user role has been designed with usability and clarity in mind. End users are provided with simplified forms and intuitive navigation to ensure ease of use even for individuals with limited technical knowledge. Managers, on the other hand, require structured interfaces with filters, approval panels, and summary tables. Administrators manage broader system functionalities and therefore access advanced modules such as analytics and user logs.

## 2.4 Operating Environment

**Hardware Requirements:**

- Minimum: Intel i3 Processor, 4GB RAM, 250GB Storage
- Recommended: Intel i5/i7 Processor, 8GB+ RAM, 500GB SSD Storage

**Software Requirements:**

- Operating System: Windows/Linux/MacOS
- Database: MySQL
- Server-side: PHP 7.4+
- Client-side: HTML, CSS, JavaScript, Bootstrap
- Web Browser: Latest version of Chrome/Firefox/Edge. The system is designed to run in a standard web server environment and is accessible across devices via responsive design.

To ensure optimal performance, the system supports server-side caching mechanisms and optimized SQL queries. It is capable of handling high-traffic situations such as bulk bookings during festival seasons or college events. The application can also be deployed on cloud infrastructure such as AWS or Azure to ensure high reliability and scalable performance.

## 2.5 Design and Implementation Constraints

- The system must use PHP and MySQL as core technologies.
- Internet connectivity is mandatory for booking and payment features.
- Security of user data and transactions is a top priority.
- The platform must handle multiple concurrent users efficiently.
- Limited resources (time, hardware, and budget) restrict the use of advanced frameworks.

## 2.6 User Documentation

The software will be supported by:

- A **User Manual** explaining registration, booking, and ticket download.
- An **Administrator Guide** covering event management, user management, and system maintenance.
- **Help Section/FAQ** integrated within the website for quick assistance.

## 2.7 Assumptions and Dependencies

- It is assumed that users will have basic knowledge of web browsing.
- A stable internet connection is available for all transactions.
- The payment gateway service will remain operational and secure.
- Users will provide valid email addresses for communication and ticket delivery.
- System performance may depend on server hosting and database optimization.

It is also assumed that external services such as email verification APIs, payment gateway APIs, and QR code generators will function consistently. The accuracy of event timing and booking slots depends on the integrity of data provided by event organizers. The system's efficiency also depends on timely updates by managers and administrators to ensure users always access the latest information.

# 3. Specific Requirements

## 3.1 External Interface Requirements

The user interface focuses on maintaining high accessibility standards, following WCAG (Web Content Accessibility Guidelines) where possible. This includes readable text size, keyboard navigation support, and proper color contrast. Interactive components such as forms, buttons, and drop-downs follow a consistent behavior model, ensuring predictability for all users.

On the admin and manager side, interfaces include visual indicators such as color-coded statuses (pending, approved, completed), ensuring quicker decision-making. Form validations are implemented on both client and server side to prevent invalid entries and enhance system integrity.

### 3.1.1 User Interfaces

The system provides a responsive and intuitive web interface designed for both desktop and mobile devices.

- **User Side:**
  - Registration/Login Page
  - Event Browsing Page with categories and filters
  - Event Booking Form with optional services
  - Payment Gateway Interface
  - Ticket Download Page with QR Code display
  - Feedback & Rating Form
  - User Dashboard (Bookings, History, Profile)
- **Admin Side:**
  - Admin Login Page
  - Dashboard with event, booking, payment, and feedback management
  - Gallery Management Page
  - Service Management Page
- **Manager Side:**
  - Manager Dashboard for task approvals and coordination
  - Event Plan Management Interface

### 3.1.2 Hardware Interfaces

The application requires a standard web server with PHP and MySQL support. The system can run on personal computers, laptops, or cloud servers. End-users only need a device with internet connectivity and a modern browser.

### 3.1.3 Software Interfaces

- **Server-side:** PHP 7.4+
- **Database:** MySQL 5.7+
- **Client-side:** HTML, CSS, JavaScript, Bootstrap
- **OS Compatibility:** Windows, Linux, macOS
- **Browser Compatibility:** Chrome, Firefox, Edge, Safari
- **Third-party Dependencies:** Payment Gateway API, Email Notification Service

### 3.1.4 Communications Interfaces

- The system communicates over **HTTP/HTTPS** protocols.
- All sensitive data (passwords, payments) must be transmitted via **SSL encryption**.
- Email notifications are sent through SMTP service.
- QR Code verification uses server-side validation to prevent unauthorized access.

## 3.2 Functional Requirements

The platform includes state-management logic that ensures bookings transition smoothly through their lifecycle—pending, approved, paid, completed, or cancelled. Each state triggers automated back-end workflows, such as sending confirmation emails, updating dashboards, or generating tickets. The feedback system uses structured templates that allow users to share ratings and comments effectively. This structured design helps organizers understand the sentiments of participants and improve event quality over time.

**User Registration & Authentication**

- Users must be able to create accounts and log in securely.
- Passwords must be stored using encryption.

**Event Browsing & Booking**

- Users can search, filter, and select events.
- Booking must allow optional services (food, transport, decoration).

**Payment Processing**

- Integration with secure payment gateway.
- Auto-generation of digital ticket with unique QR code.

**Ticket & Dashboard Management**

- Users can download/view tickets anytime.
- Dashboard displays booking history and payment details.

**Feedback & Rating**

- Users must be able to submit ratings and comments.
- Admin can review collected feedback for quality improvement.

**Admin Panel Features**

- Manage users, events, bookings, and services.
- Approve or reject event bookings.
- Update event gallery and view feedback.

**Manager Panel Features**

- Manage event plans and approvals.
- Coordinate with admin for event operations.

## 3.3 Behaviour Requirements

The system must ensure that interactions follow logical flow transitions. For example, a user cannot proceed to payment without selecting an event or available add-ons. The system prevents unauthorized access attempts through session validation and automatic logout after inactivity. Moreover, any inconsistencies detected during workflows—such as invalid ticket scans—generate system alerts to maintain security and reliability.

### 3.3.1 Use Case View

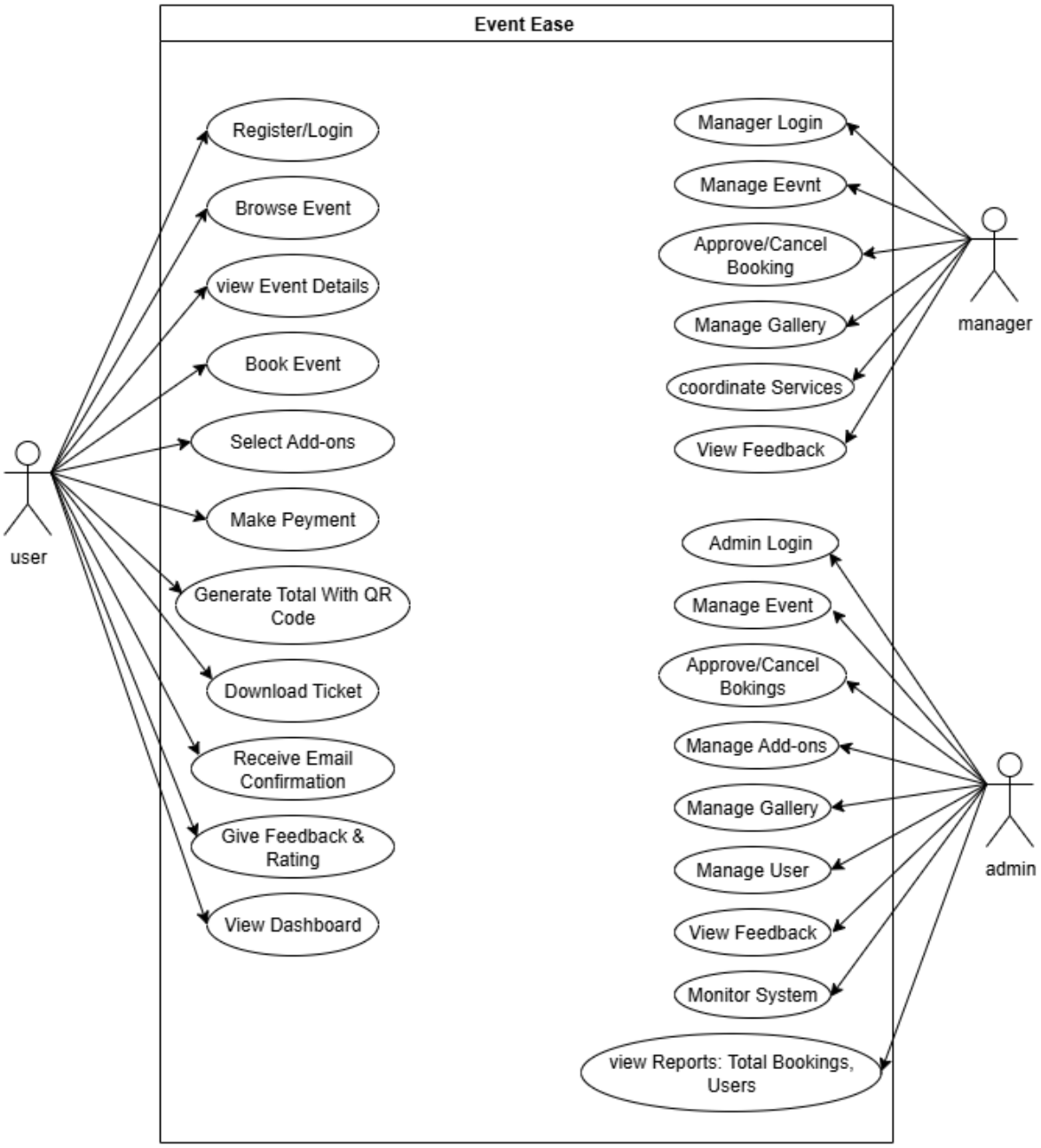



*Figure 12.1 Use Case View*

# 4. Other Non-functional Requirements

## 4.1 Performance Requirements

The database is optimized using indexing, query tuning, and caching strategies to handle large datasets efficiently. Pagination is implemented for event lists and gallery pages to ensure fast loading. The system performs background tasks, such as email notifications and QR generation, asynchronously to prevent delays during user interactions.

- The system should handle at least **100 concurrent users** without performance degradation.
- Any transaction (event booking or payment) should be processed within **5–10 seconds** under normal load.
- Event browsing and search results must be displayed within **3 seconds**.
- Ticket generation and email notification must be completed within **1 minute** after payment confirmation.
- The system should maintain **99% uptime**, excluding planned maintenance.

## 4.2 Safety and Security Requirements

Along with HTTPS encryption, the system incorporates salted password hashing, token-based verification for password resets, and protection against common cyber threats such as CSRF and XSS attacks. Regular audits and log monitoring help administrators detect unusual activities or unauthorized access attempts.

- All user credentials must be encrypted and stored securely in the database.
- Sensitive data (passwords, payments, personal details) must be transmitted only through **HTTPS**.
- QR codes must be unique and verified at the server to prevent duplication or fraud.
- The system should implement **role-based access control**, ensuring only authorized users (admin/manager) can access restricted panels.
- Regular database backups should be maintained to prevent data loss in case of system failure.

## 4.3 Software Quality Attributes

The system adopts continuous improvement practices, allowing easy modification of UI components and backend logic. Its structured folder organization—separating controllers,

views, and database scripts—supports maintainability. Backup policies ensure that data remains secure even during unexpected system failures.

- **Reliability:** The system should operate continuously without failures, ensuring consistent ticketing and payment operations.
- **Availability:** The platform must remain accessible to users at all times, with downtime limited to scheduled maintenance.
- **Usability:** The interface should be simple, intuitive, and responsive, ensuring smooth navigation for both users and administrators.
- **Maintainability:** Code and database structure should follow modular design principles, making it easier to fix bugs and add new features.
- **Portability:** The system should run smoothly on different operating systems (Windows, Linux, macOS) and modern browsers.
- **Scalability:** The platform should support future expansion, such as adding more event categories, advanced services, or mobile app integration.

# 5. Other Requirements

The system is also designed to support future customization by educational institutions, private organizers, or corporate teams. By abstracting event categories and services, the platform allows different organizations to adopt it with minimal modifications.

The legal compliance considerations ensure that the platform remains suitable for institutional and public deployments. Data retention policies are aligned with academic project standards and can be extended to comply with enterprise-level regulations.

Reuse of components such as authentication modules, email handlers, and QR generators ensures that the project can serve as a strong foundation for larger workflow-based systems like conference management portals, ticketing systems, or institutional event dashboards.

Future enhancement possibilities also include integration with cloud-based reporting systems, automated event reminders, advanced search filters, and personalized dashboards for frequent users.

**Database Requirements**

- The database must support relational integrity using foreign keys to maintain consistency between users, events, bookings, and feedback.
- Backup and recovery mechanisms should be in place to ensure data protection.
- Database design should allow easy scalability for future enhancements such as more event categories or larger user bases.

**Internationalization Requirements**

- Although the current system is designed in English, it should support the possibility of adding multilingual functionality in future (e.g., Hindi, Gujarati).
- Date, time, and currency formats should be adaptable to regional standards if the system is expanded beyond local usage.

**Legal and Compliance Requirements**

- The system must comply with data privacy and protection standards such as **IT Act (India)** and applicable GDPR-like policies if extended globally.
- Secure payment transactions must follow **PCI DSS compliance** to protect financial data.

**Reuse Objectives**

- The modular architecture (separate user, admin, and manager panels) should allow reusability of code for other event-based applications.

- Components like the login system, payment gateway, and QR ticket generator should be reusable in other academic or commercial projects.

**Future Enhancement Possibilities**

- Integration with mobile applications for Android/iOS.
- AI-driven event recommendations based on user preferences.
- Advanced analytics dashboard for organizers to track bookings, revenue, and customer behavior.

# Appendix A – Data Dictionary

Table 1.1: Category

| Column Name | Data Type | Description |
|---|---|---|
| category_id | INT | Primary Key, Auto Increment |
| name | VARCHAR(100) | Category name (e.g. birthday) |

Table 1.2: Events

| Column Name | Data Type | Description |
|---|---|---|
| event_id | INT | Primary Key, Auto Increment |
| Title | VARCHAR(255) | Event name/title |
| Description | TEXT | Detailed description |
| event_date | DATE | Event date |
| location | VARCHAR(255) | Location of event |
| Price | DECIMAL(10,2) | Base price |
| user_id | INT | Foreign Key → users(user_id) |
| manager_id | INT | Foreign Key → admins(admin_id) |
| category_id | INT | Foreign Key → category(category_id) |
| created_at | DATETIME | Default: CURRENT_TIMESTAMP |

Table 1.3: Gallery

| Column Name | Data Type | c |
|---|---|---|
| image_id | INT | Primary Key, Auto Increment |
| title | VARCHAR(255) | Image title |
| image_url | VARCHAR(255) | URL link of the image |
| event_id | INT | Foreign Key → events(event_id) |
| uploaded_at | DATETIME | Default: CURRENT_TIMESTAMP |

Table 1.4: Add_ons

| Column Name | Data Type | Description |
|---|---|---|
| addon_id | INT | Primary Key, Auto Increment |
| name | VARCHAR(100) | Addon title |
| type | ENUM('food', 'transport') | Type of addon |
| price | DECIMAL(10,2) | Price |
| booking_id | INT NULL | Nullable Foreign Key if needed |

Table 1.5: Bookings

| Column Name | Data Type | Description |
|---|---|---|
| booking_id | INT | Primary Key, Auto Increment |
| user_id | INT | Foreign Key → users(user_id) |
| event_id | INT | Foreign Key → events(event_id) |
| addon_id | INT | Foreign Key → add_ons(addon_id) |
| start_date | DATE | Booking start date |
| end_date | DATE | Booking end date |
| status | ENUM(...) | Booking status (e.g. pending) |

Table 1.6: Tickets

| Column Name | Data Type | Description |
|---|---|---|
| ticket_id | INT | Primary Key, Auto Increment |
| booking_id | INT | Foreign Key → bookings(booking_id) |
| qr_image_url | VARCHAR(255) | Link to QR image (used for scanning) |
| issued_at | DATETIME | Default: CURRENT_TIMESTAMP |

Table 1.7: Event by User

| Column Name | Data Type | Description |
|---|---|---|
| event_id | INT (PK) | Unique Event ID |
| user_id | INT (FK) | FK → users.user_id (event booked by) |
| event_type | VARCHAR(100) | e.g., Wedding, Conference, etc. |
| event_date | DATE | Date of the event |
| event_time | TIME | Time of the event |
| Location | TEXT | Location of event |
| special_requirements | TEXT | Extra requirements (optional) |
| Status | ENUM | Pending / Accepted / Planned / Completed / Cancelled |
| created_at | DATETIME | Booking date/time |

Table 1.8: Event Plans by Manager

| Column Name | Data Type | Description |
|---|---|---|
| plan_id | INT (PK) | Unique ID |
| event_id | INT (FK) | FK → events.event_id |
| plan_details | TEXT | What the manager planned |
| team_assigned | TEXT | Optional: staff/team names |
| updated_at | DATETIME | Last update date |

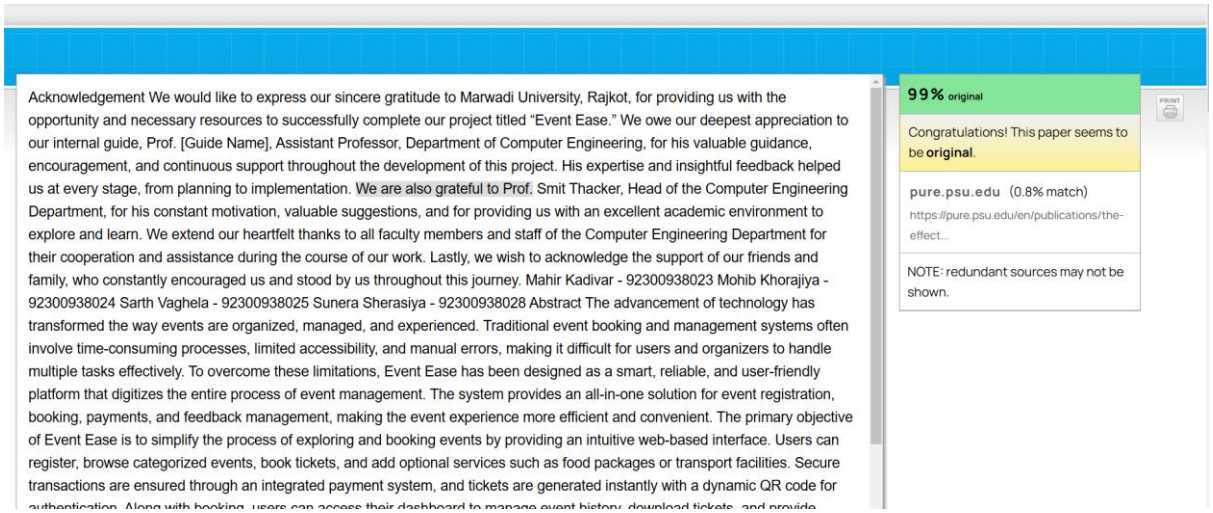
Table 1.9: Feedback

| Column Name | Data Type | Description |
|---|---|---|
| feedback_id | INT (PK) | Unique Feedback ID |
| event_id | INT (FK) | FK → events.event_id |
| user_id | INT (FK) | FK → users.user_id |
| Rating | INT | Rating out of 5 |
| Comments | TEXT | Text feedback |
| submitted_at | DATETIME | Timestamp |

Table 1.10: Users

| Column Name | Data Type | Description |
|---|---|---|
| user_id | INT | Primary Key, Auto Increment |
| Name | VARCHAR(100) | Full name of the user |
| Email | VARCHAR(100) | Unique email for login |
| Password | VARCHAR(255) | Encrypted password |
| Phone | VARCHAR(15) | Contact number |
| created_at | DATETIME | Account creation time, Default: CURRENT_TIMESTAMP |
| updated_at | DATETIME | Last profile update |

# Appendix B - Plagiarism Report



Acknowledgement We would like to express our sincere gratitude to Marwadi University, Rajkot, for providing us with the opportunity and necessary resources to successfully complete our project titled "Event Ease." We owe our deepest appreciation to our internal guide, Prof. [Guide Name], Assistant Professor, Department of Computer Engineering, for his valuable guidance, encouragement, and continuous support throughout the development of this project. His expertise and insightful feedback helped us at every stage, from planning to implementation. We are also grateful to Prof. Smit Thacker, Head of the Computer Engineering Department, for his constant motivation, valuable suggestions, and for providing us with an excellent academic environment to explore and learn. We extend our heartfelt thanks to all faculty members and staff of the Computer Engineering Department for their cooperation and assistance during the course of our work. Lastly, we wish to acknowledge the support of our friends and family, who constantly encouraged us and stood by us throughout this journey. Mahir Kadivar - 92300938023 Mohib Khorajiya - 92300938024 Sarth Vaghela - 92300938025 Sunera Sherasiya - 92300938028 Abstract The advancement of technology has transformed the way events are organized, managed, and experienced. Traditional event booking and management systems often involve time-consuming processes, limited accessibility, and manual errors, making it difficult for users and organizers to handle multiple tasks effectively. To overcome these limitations, Event Ease has been designed as a smart, reliable, and user-friendly platform that digitizes the entire process of event management. The system provides an all-in-one solution for event registration, booking, payments, and feedback management, making the event experience more efficient and convenient. The primary objective of Event Ease is to simplify the process of exploring and booking events by providing an intuitive web-based interface. Users can register, browse categorized events, book tickets, and add optional services such as food packages or transport facilities. Secure transactions are ensured through an integrated payment system, and tickets are generated instantly with a dynamic QR code for authentication. Along with booking, users can access their dashboard to manage event history, download tickets, and provide

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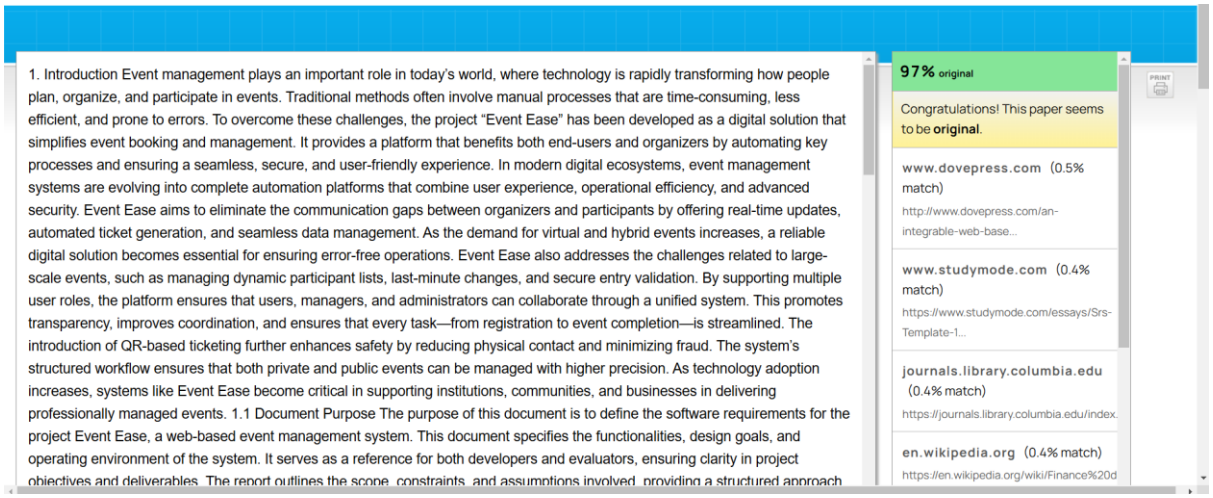

1. Introduction Event management plays an important role in today's world, where technology is rapidly transforming how people plan, organize, and participate in events. Traditional methods often involve manual processes that are time-consuming, less efficient, and prone to errors. To overcome these challenges, the project "Event Ease" has been developed as a digital solution that simplifies event booking and management. It provides a platform that benefits both end-users and organizers by automating key processes and ensuring a seamless, secure, and user-friendly experience. In modern digital ecosystems, event management systems are evolving into complete automation platforms that combine user experience, operational efficiency, and advanced security. Event Ease aims to eliminate the communication gaps between organizers and participants by offering real-time updates, automated ticket generation, and seamless data management. As the demand for virtual and hybrid events increases, a reliable digital solution becomes essential for ensuring error-free operations. Event Ease also addresses the challenges related to large-scale events, such as managing dynamic participant lists, last-minute changes, and secure entry validation. By supporting multiple user roles, the platform ensures that users, managers, and administrators can collaborate through a unified system. This promotes transparency, improves coordination, and ensures that every task—from registration to event completion—is streamlined. The introduction of QR-based ticketing further enhances safety by reducing physical contact and minimizing fraud. The system's structured workflow ensures that both private and public events can be managed with higher precision. As technology adoption increases, systems like Event Ease become critical in supporting institutions, communities, and businesses in delivering professionally managed events. 1.1 Document Purpose The purpose of this document is to define the software requirements for the project Event Ease, a web-based event management system. This document specifies the functionalities, design goals, and operating environment of the system. It serves as a reference for both developers and evaluators, ensuring clarity in project objectives and deliverables. The report outlines the scope, constraints, and assumptions involved, providing a structured approach

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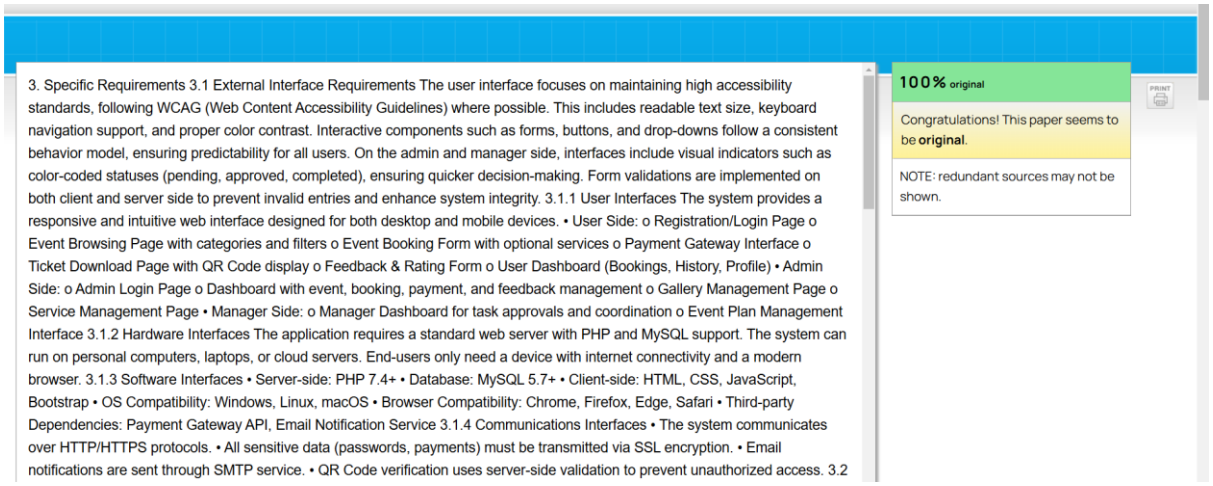

3. Specific Requirements 3.1 External Interface Requirements The user interface focuses on maintaining high accessibility standards, following WCAG (Web Content Accessibility Guidelines) where possible. This includes readable text size, keyboard navigation support, and proper color contrast. Interactive components such as forms, buttons, and drop-downs follow a consistent behavior model, ensuring predictability for all users. On the admin and manager side, interfaces include visual indicators such as color-coded statuses (pending, approved, completed), ensuring quicker decision-making. Form validations are implemented on both client and server side to prevent invalid entries and enhance system integrity. 3.1.1 User Interfaces The system provides a responsive and intuitive web interface designed for both desktop and mobile devices. • User Side: o Registration/Login Page o Event Browsing Page with categories and filters o Event Booking Form with optional services o Payment Gateway Interface o Ticket Download Page with QR Code display o Feedback & Rating Form o User Dashboard (Bookings, History, Profile) • Admin Side: o Admin Login Page o Dashboard with event, booking, payment, and feedback management o Gallery Management Page o Service Management Page • Manager Side: o Manager Dashboard for task approvals and coordination o Event Plan Management Interface 3.1.2 Hardware Interfaces The application requires a standard web server with PHP and MySQL support. The system can run on personal computers, laptops, or cloud servers. End-users only need a device with internet connectivity and a modern browser. 3.1.3 Software Interfaces • Server-side: PHP 7.4+ • Database: MySQL 5.7+ • Client-side: HTML, CSS, JavaScript, Bootstrap • OS Compatibility: Windows, Linux, macOS • Browser Compatibility: Chrome, Firefox, Edge, Safari • Third-party Dependencies: Payment Gateway API, Email Notification Service 3.1.4 Communications Interfaces • The system communicates over HTTP/HTTPS protocols. • All sensitive data (passwords, payments) must be transmitted via SSL encryption. • Email notifications are sent through SMTP service. • QR Code verification uses server-side validation to prevent unauthorized access. 3.2

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# Appendix C – User Manual

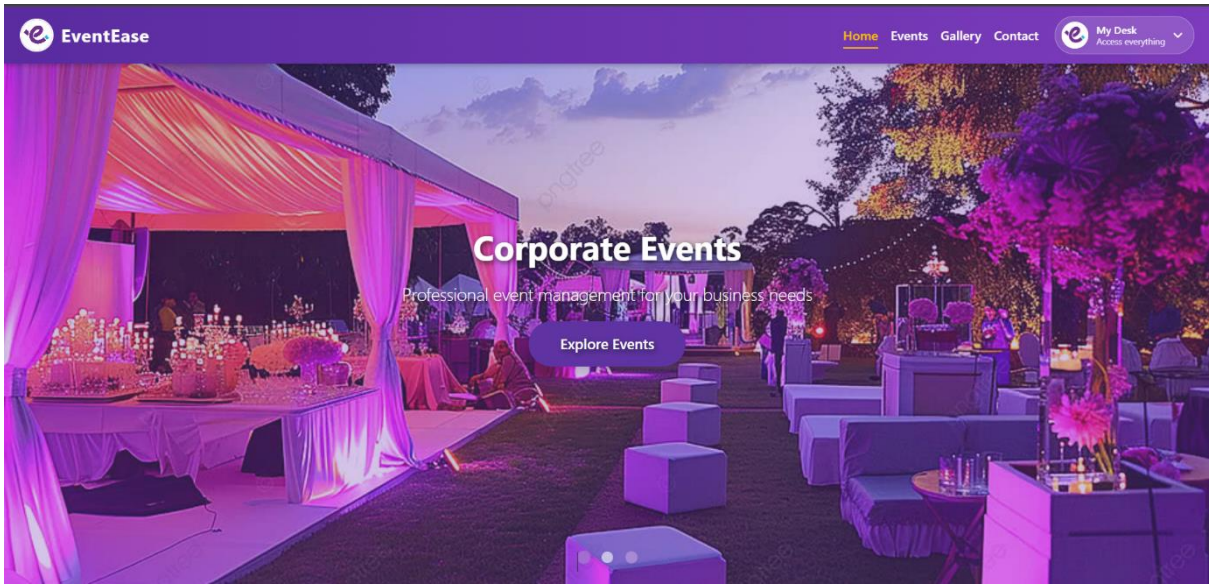


Figure 1 Home Page – EventEase :

This screen represents the landing page of the EventEase website. It provides an overview of corporate event services with a prominent call-to-action button to explore events. The page is designed to attract users and guide them toward browsing available event categories.

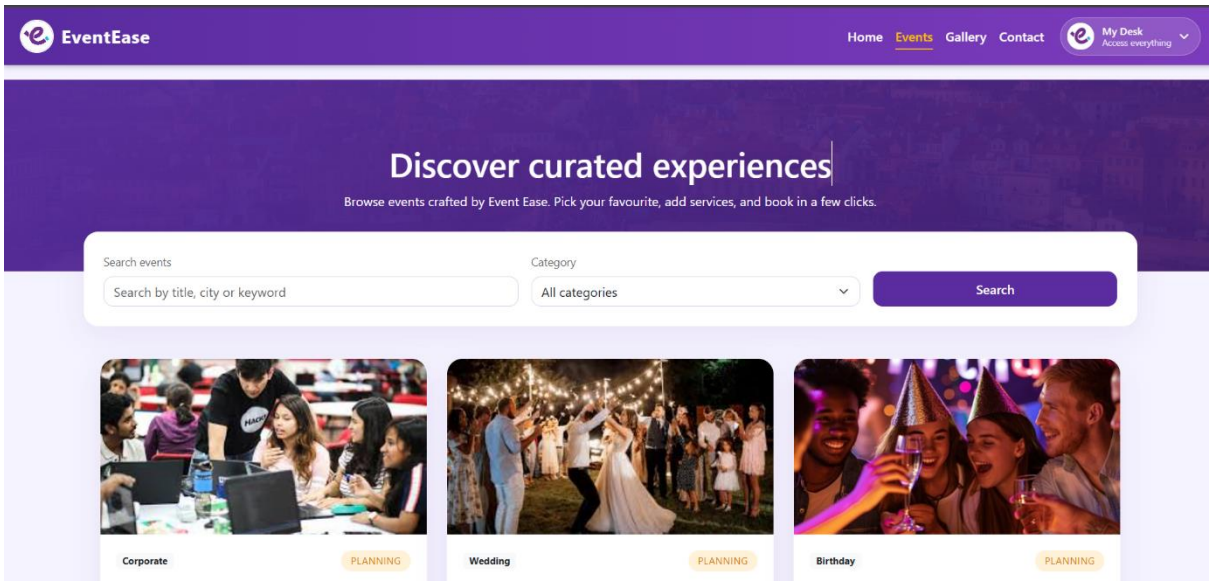


Figure 2 Events Page – Browse Events :

This page allows users to browse available events categorized by type such as Corporate, Wedding, and Birthday. It includes a search bar and category filter to help users quickly find suitable events based on their preferences.

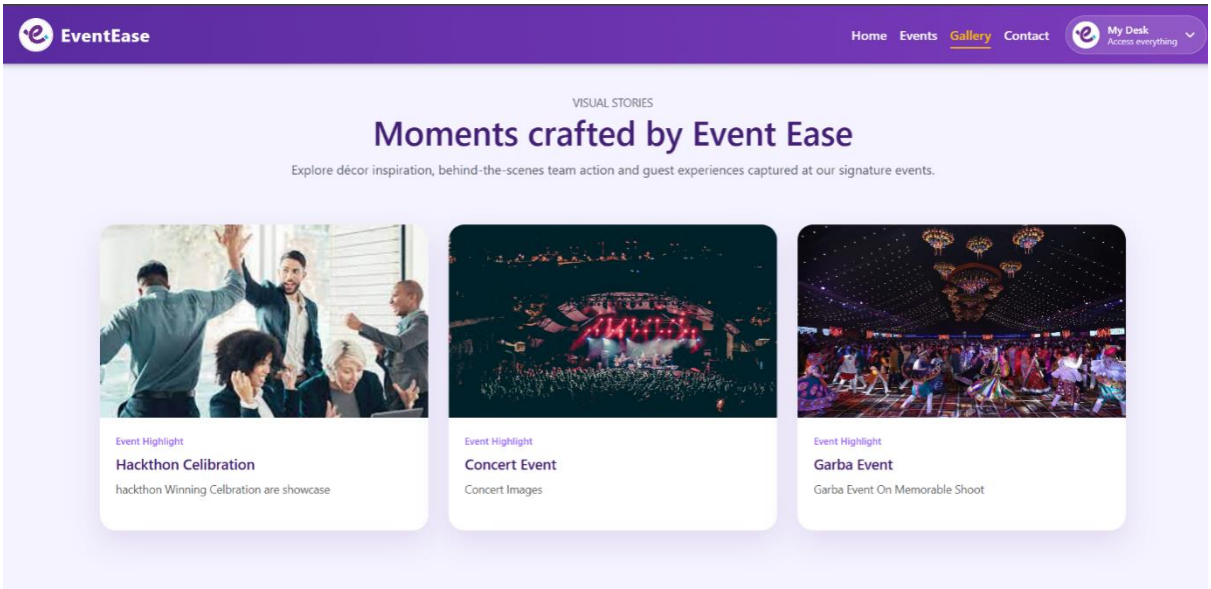


Figure 3 Gallery Page – Event Highlights :

This screen displays a visual gallery of past events organized by EventEase. It showcases event highlights such as hackathons, concerts, and cultural events to demonstrate service quality and build user trust.

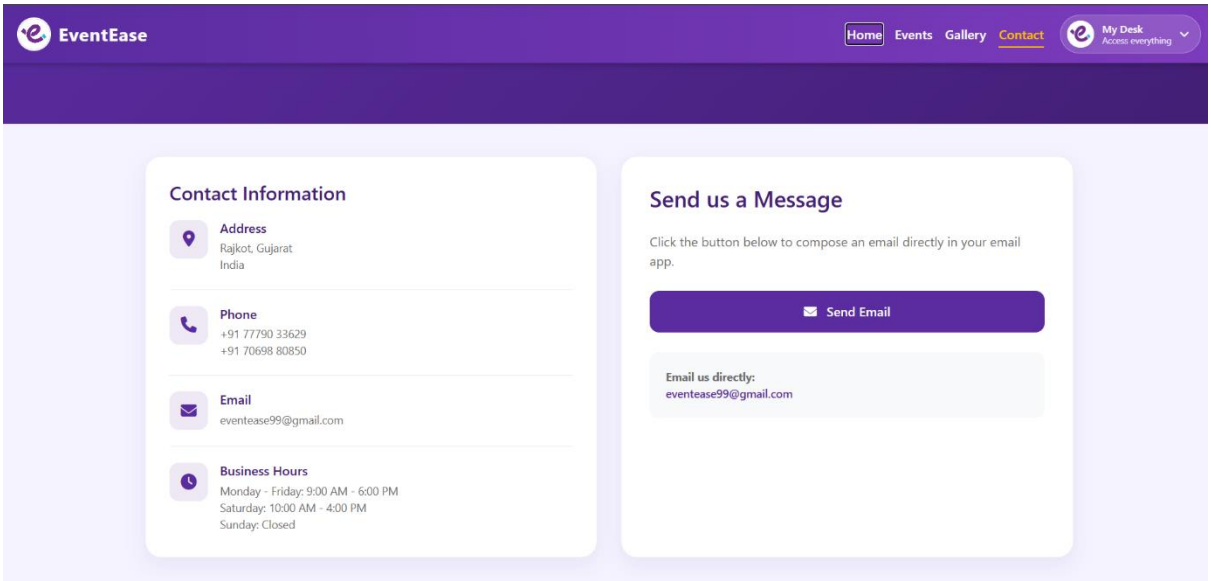


Figure 4 Contact Page – Contact Information :

This page provides official contact details including address, phone numbers, email address, and business hours. It also includes an option for users to send inquiries directly via email.

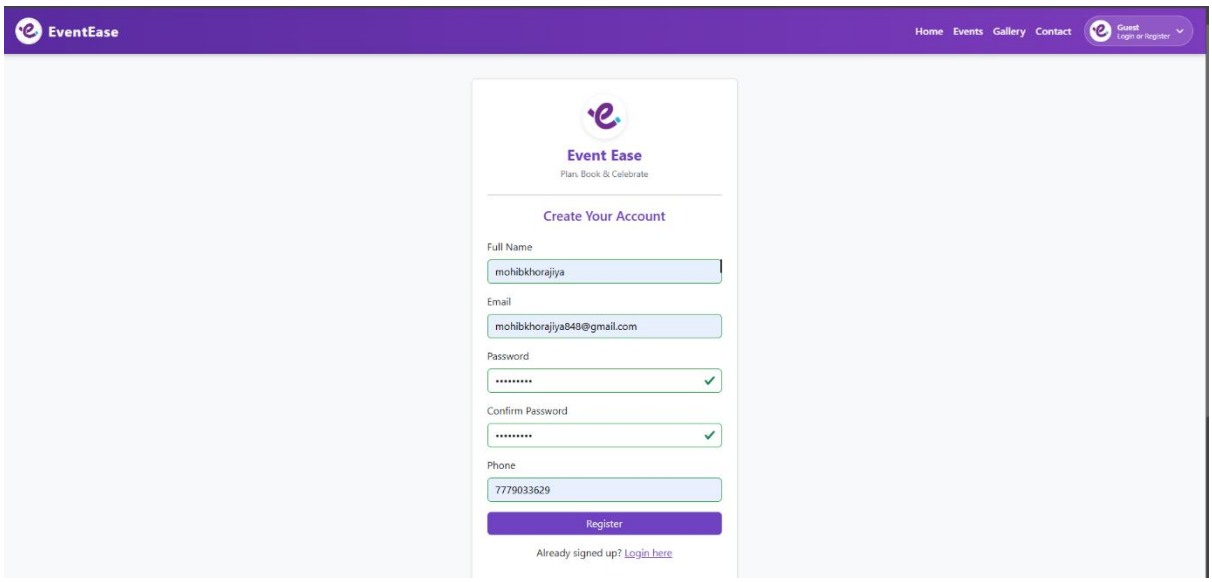


Figure 5 User Registration Page :

This screen allows new users to create an account by entering personal details such as name, email, password, and phone number. User registration is required to access booking and personalized services.

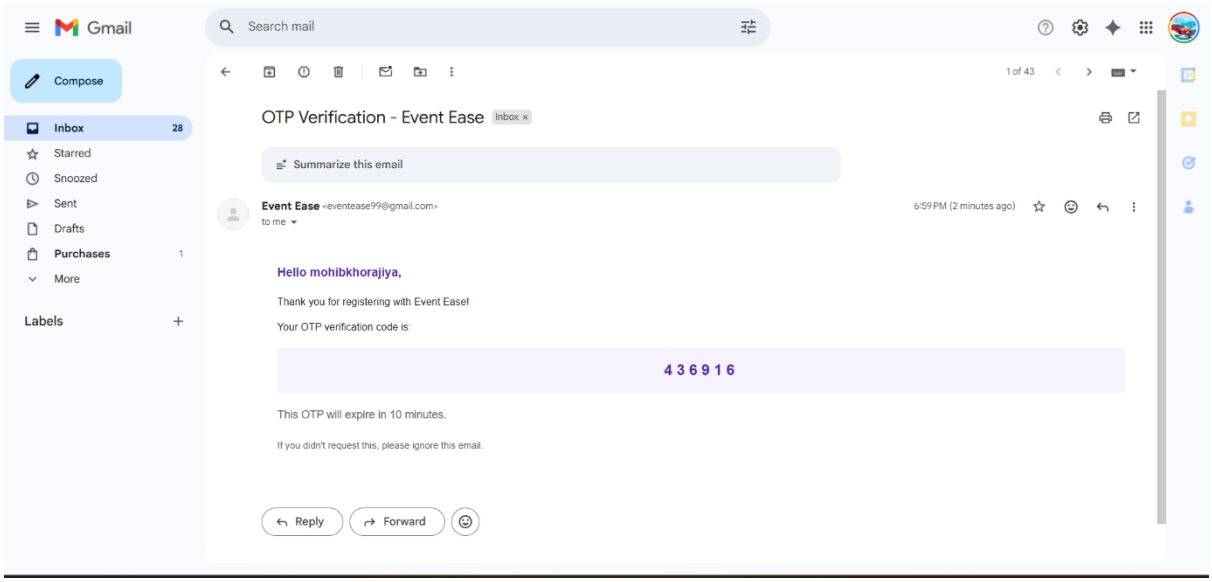


Figure 6 OTP Verification Email :

This screenshot shows the OTP verification email sent to the user during registration. The OTP ensures secure email verification before activating the user account.

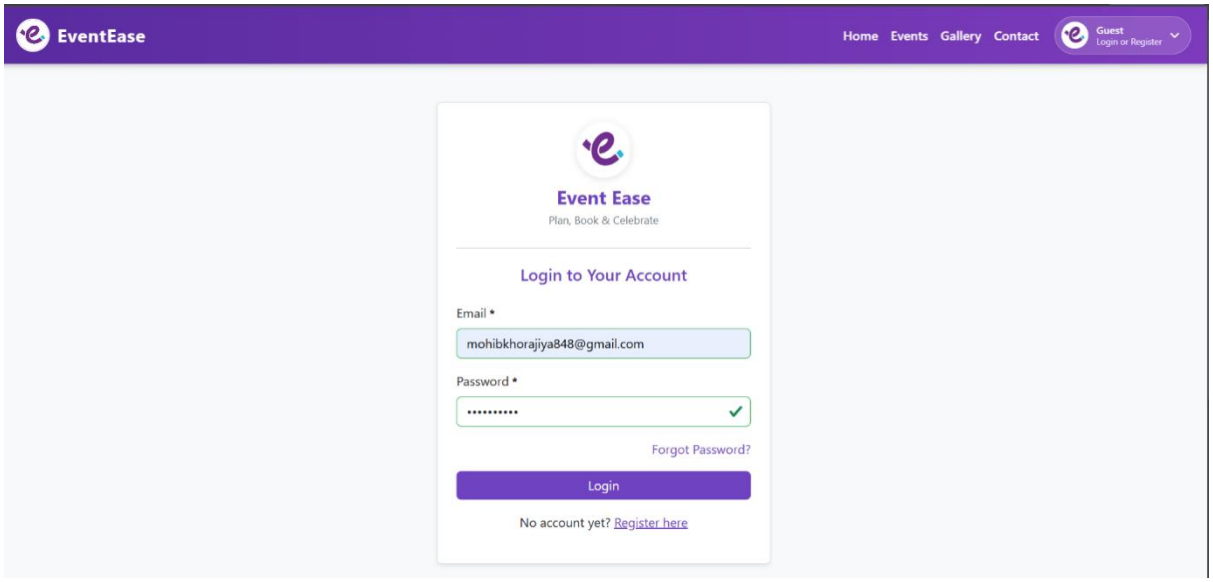


Figure 7 User Login Page :

This page enables registered users to log in using their email and password. It also provides options for password recovery and new user registration.

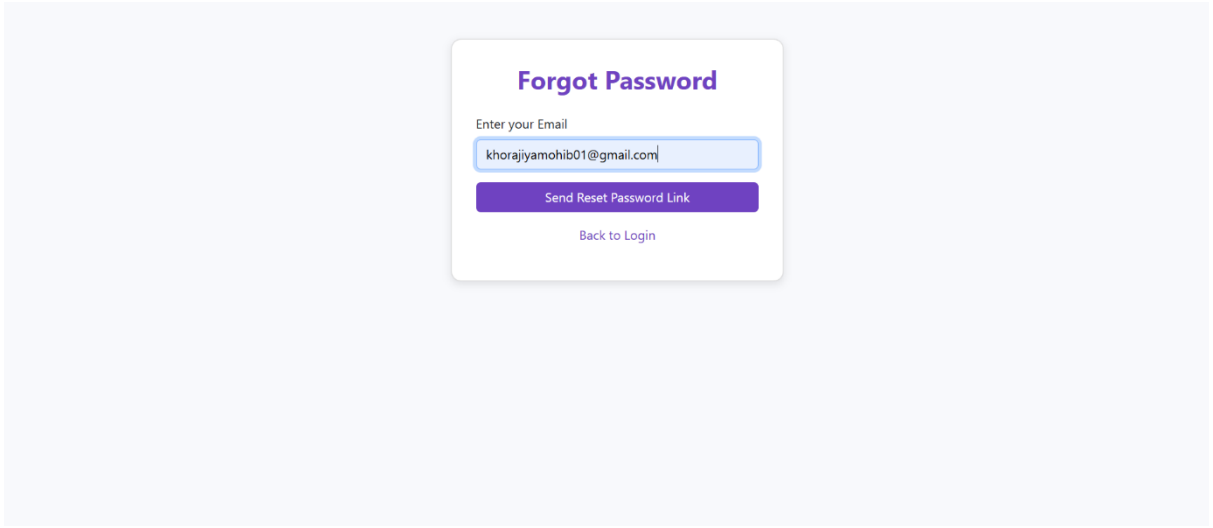


Figure 8 Forgot Password Page :

This screen allows users to request a password reset by entering their registered email address. A reset link is sent to the user's email for account recovery.

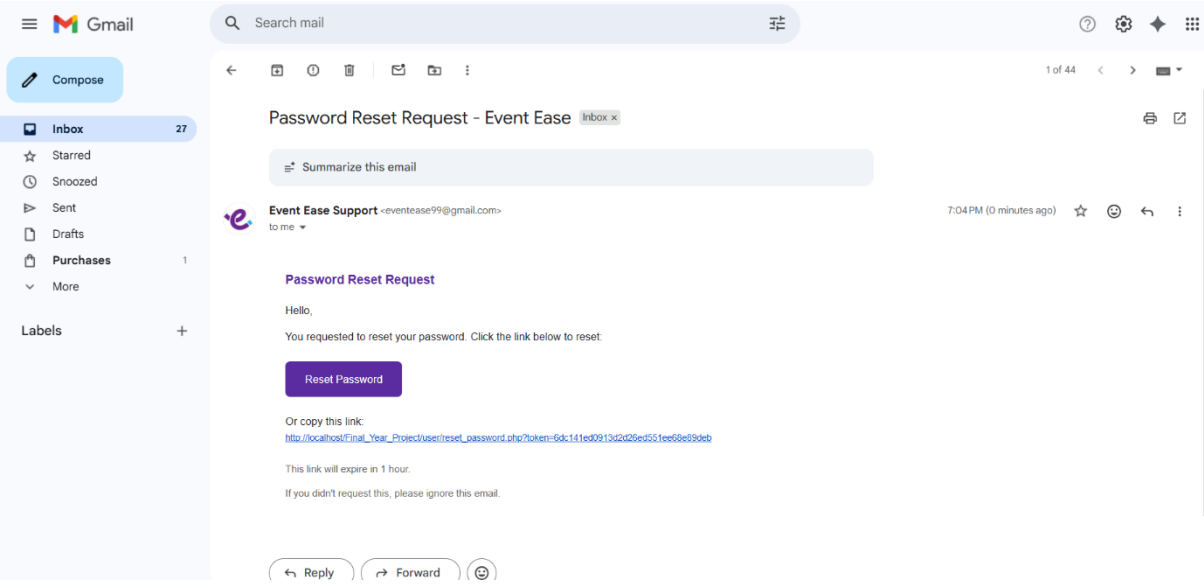


Figure 9 Password Reset Email :

This email contains a secure password reset link generated upon user request. The link allows users to reset their account password within a limited time for security purposes.

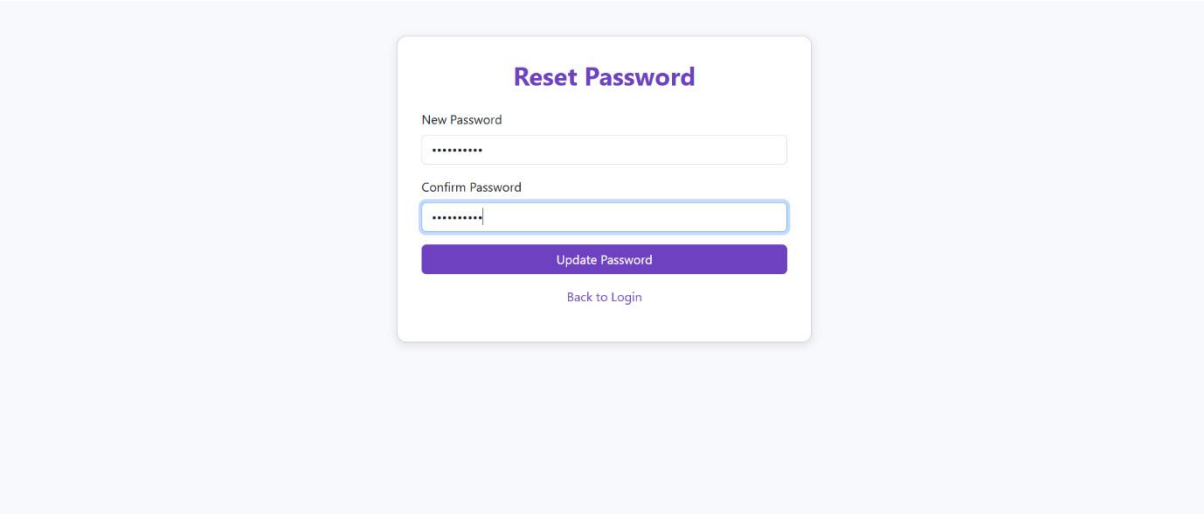


Figure 10 Reset Password Page :

This page allows users to set a new password after clicking the password reset link. The user must enter and confirm the new password to successfully update account credentials.

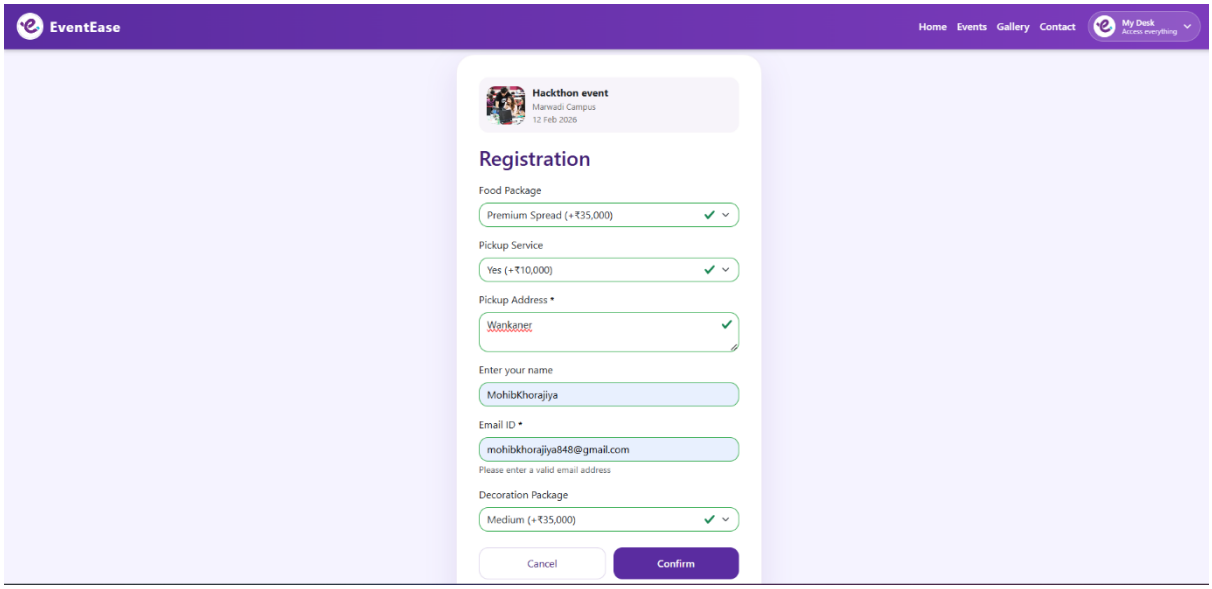


Figure 11 Event Registration Page :

This screen allows users to register for a selected event by choosing optional services such as food package, pickup service, and decoration package. The user is required to enter personal details before confirming the event booking.

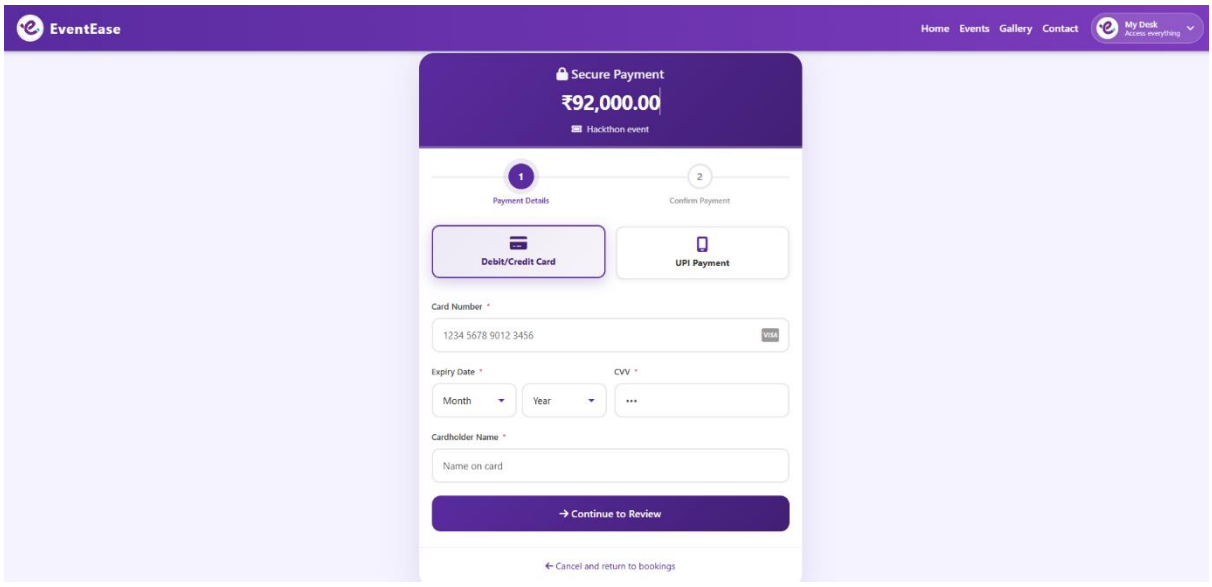


Figure 12 Payment Details Page :

This page collects payment information from the user. It supports multiple payment methods such as Debit/Credit Card and UPI, ensuring secure transaction processing for event bookings.

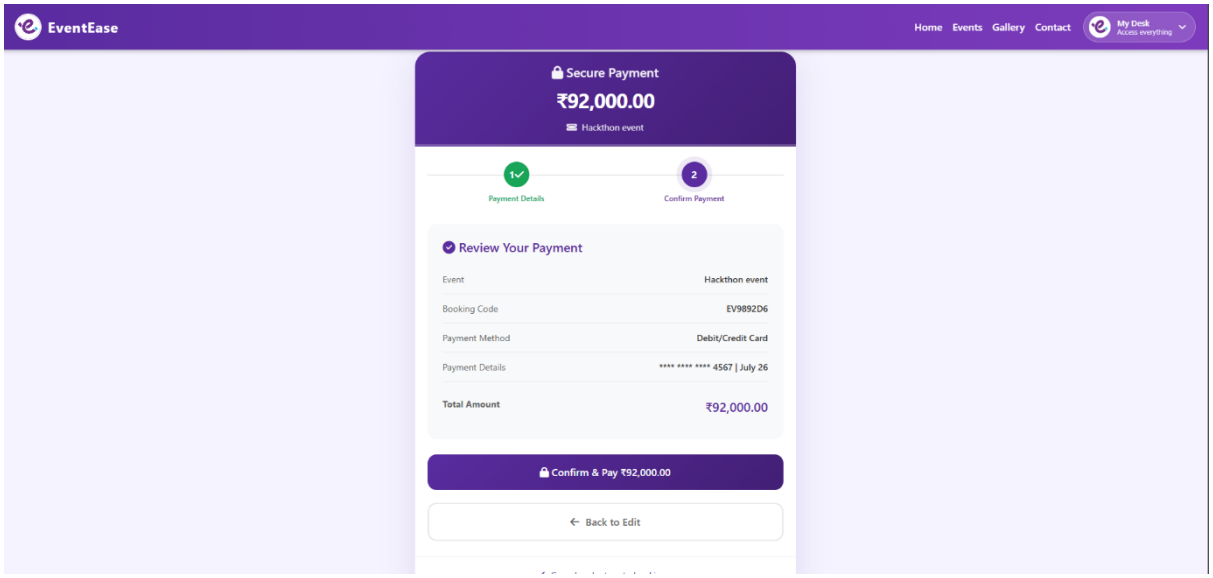


Figure 13 Payment Confirmation Page :

This screen displays a summary of the booking and payment details including event name, booking code, payment method, and total amount. The user can review the details before finalizing the payment.

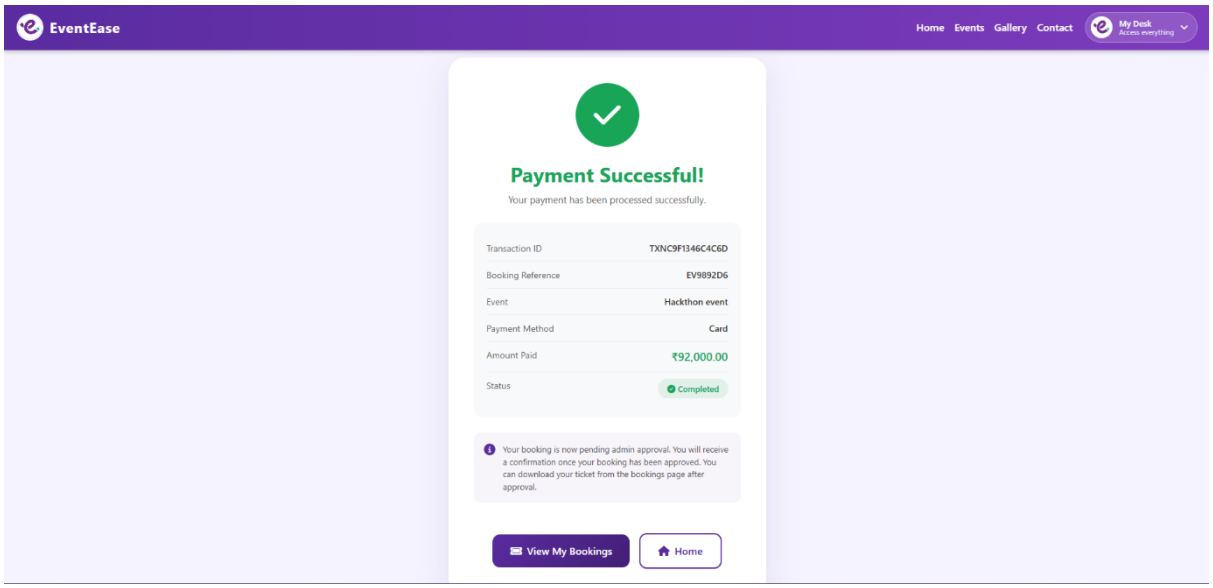


Figure 14 Payment Successful Page :

This page confirms that the payment has been successfully processed. It displays transaction details such as transaction ID, booking reference, payment method, amount paid, and booking status.

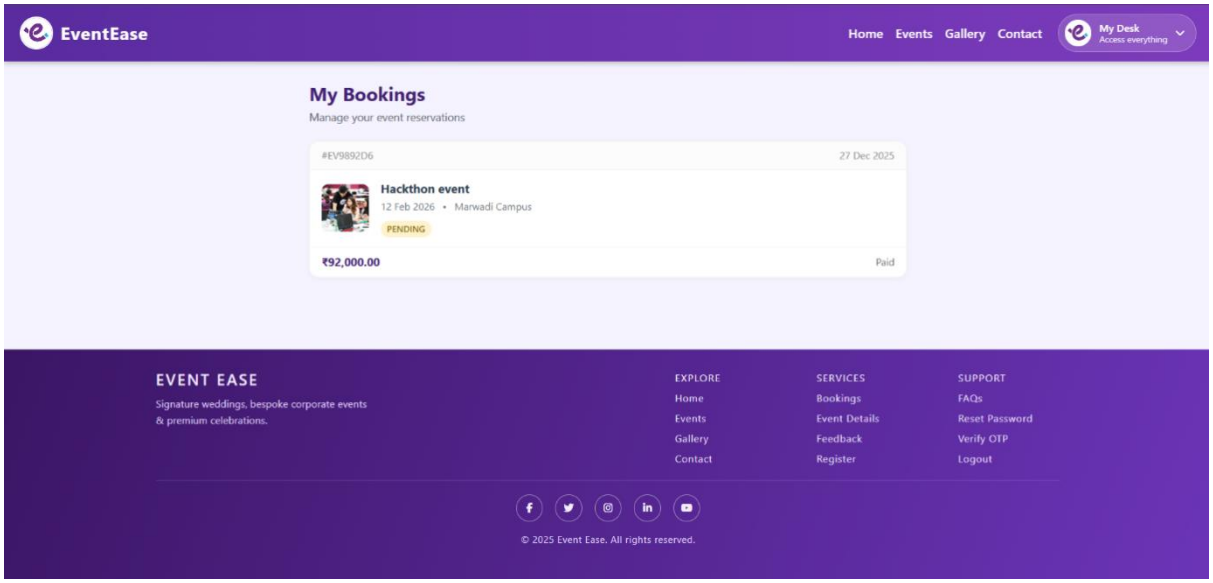


Figure 15 My Bookings Page :

This page allows users to view and manage their event bookings. It displays booking details including event name, date, location, payment status, and approval status.

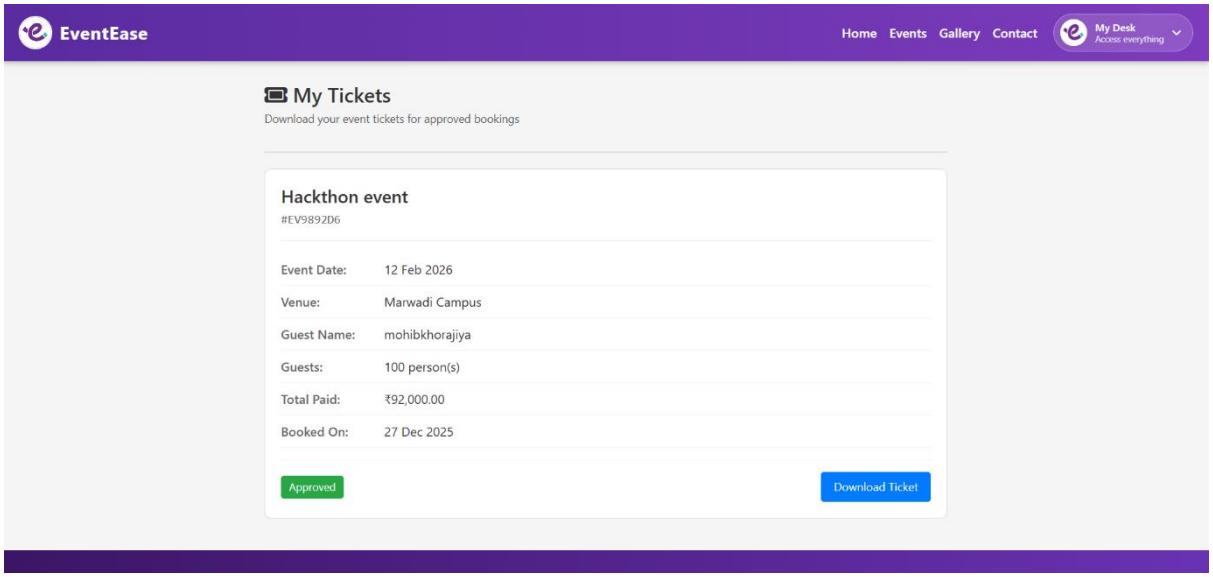


Figure 16 My Tickets Page :

This screen displays detailed ticket information for approved bookings. Users can view event details and download their event tickets for entry purposes.

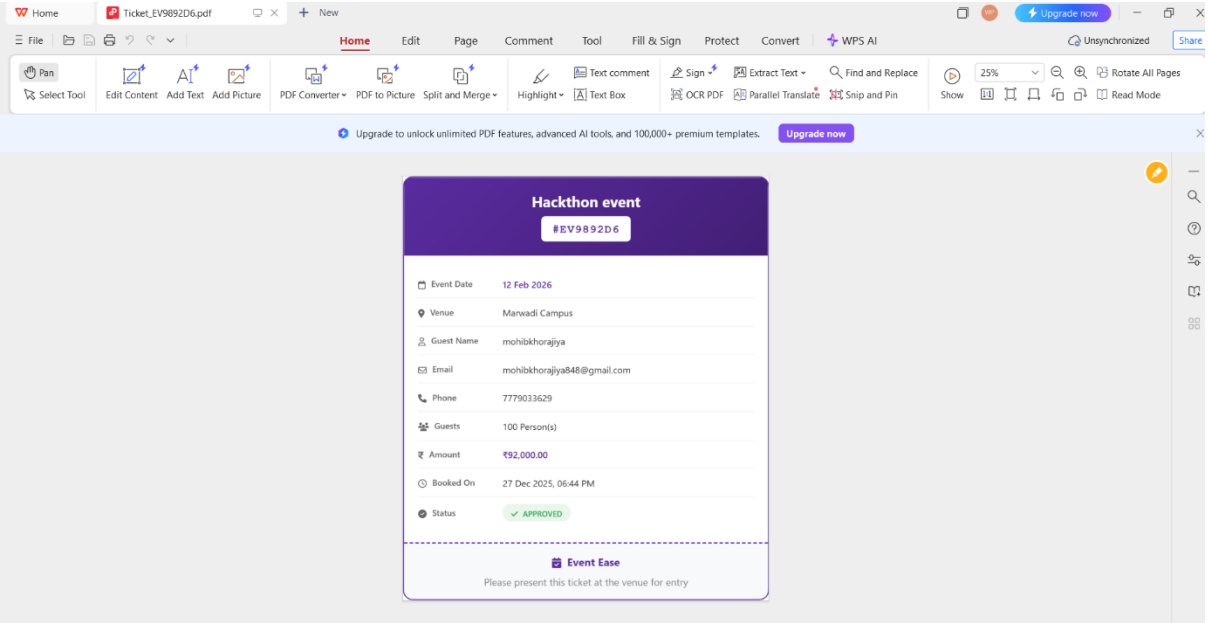


Figure 17 Event Ticket PDF :

This screenshot represents the generated event ticket in PDF format. It includes essential details such as event name, booking ID, venue, guest details, payment information, and approval status.

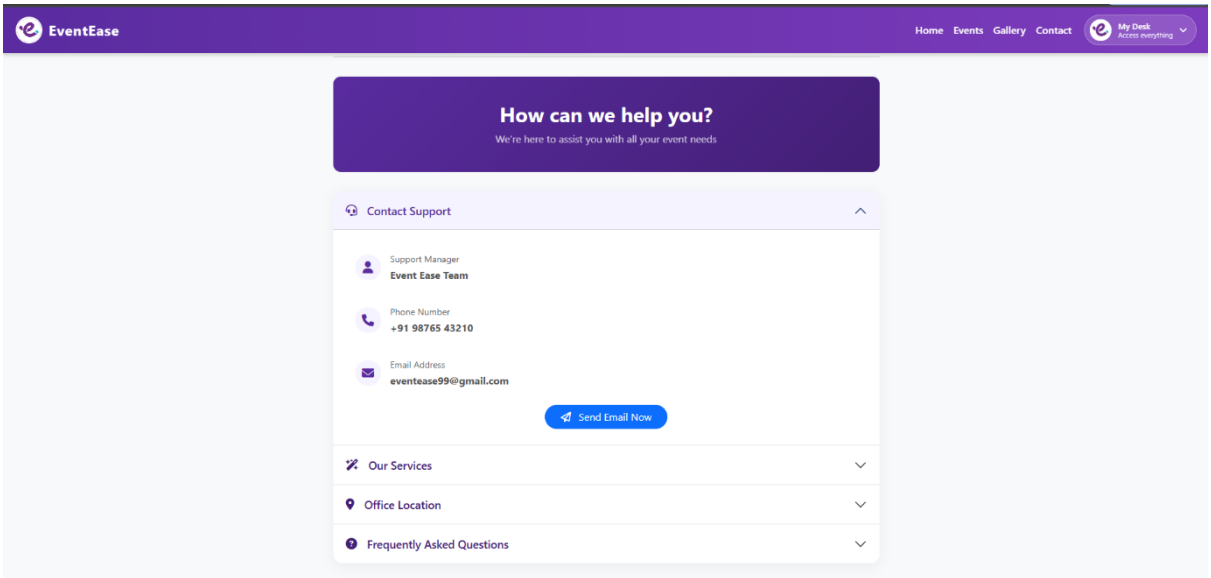


Figure 18 Help and Support Page :

This page provides customer support options including contact details, email support, office location, services information, and frequently asked questions to assist users with their queries.

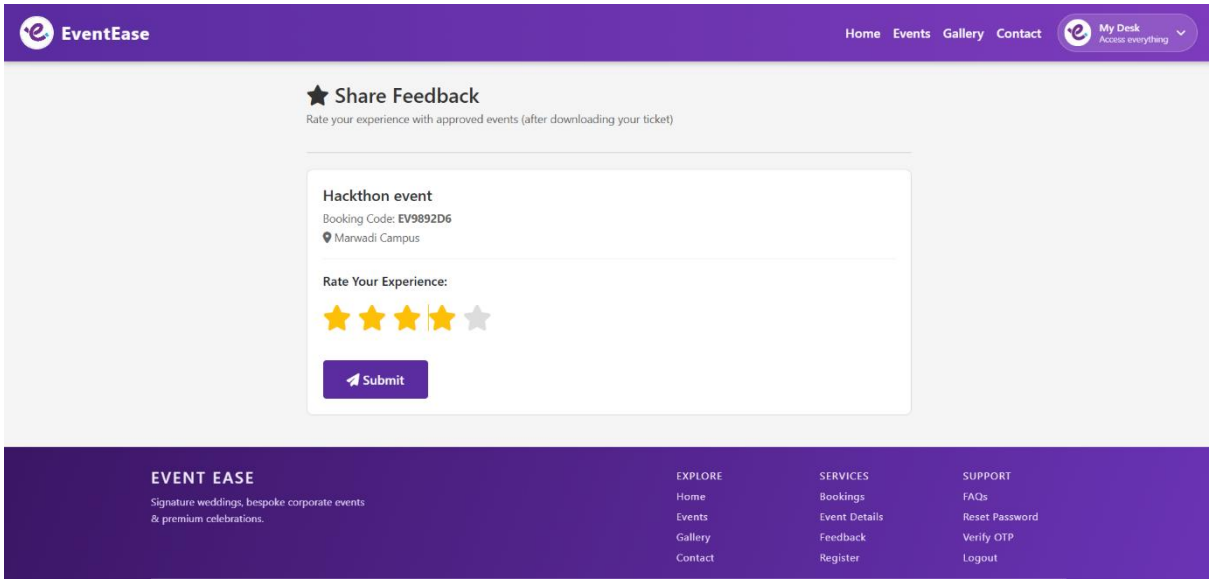


Figure 19 Feedback Page :

This screen allows users to submit feedback and rate their experience for approved events. User feedback helps improve service quality and overall system performance.

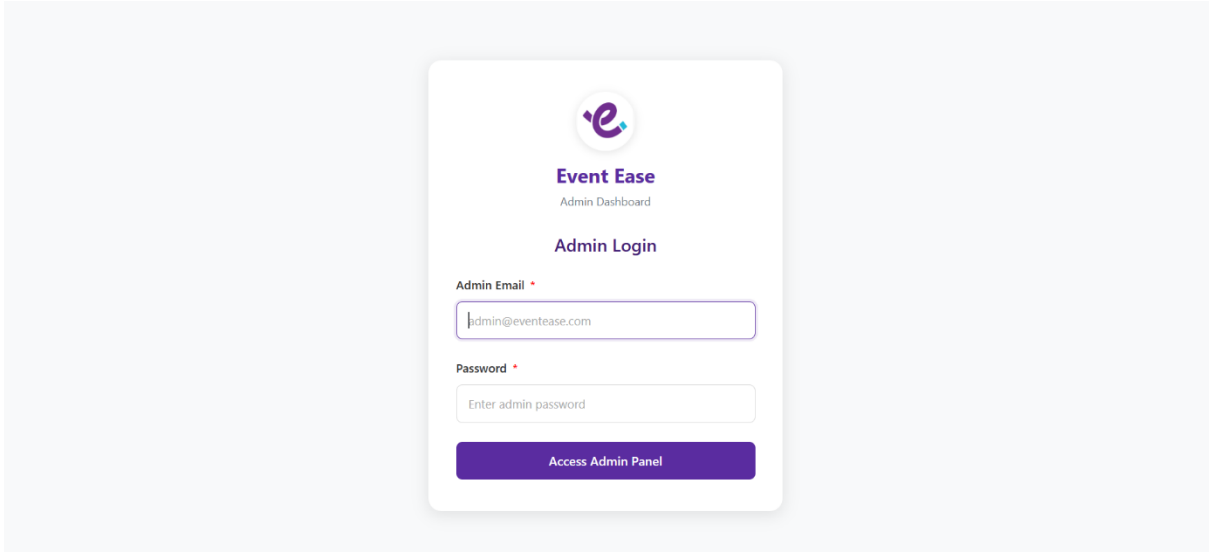


Figure 20 Admin Login Page :

This screen allows authorized administrators to log in to the EventEase Admin Panel using secure credentials. Access to the admin dashboard is restricted to authenticated admin users only.

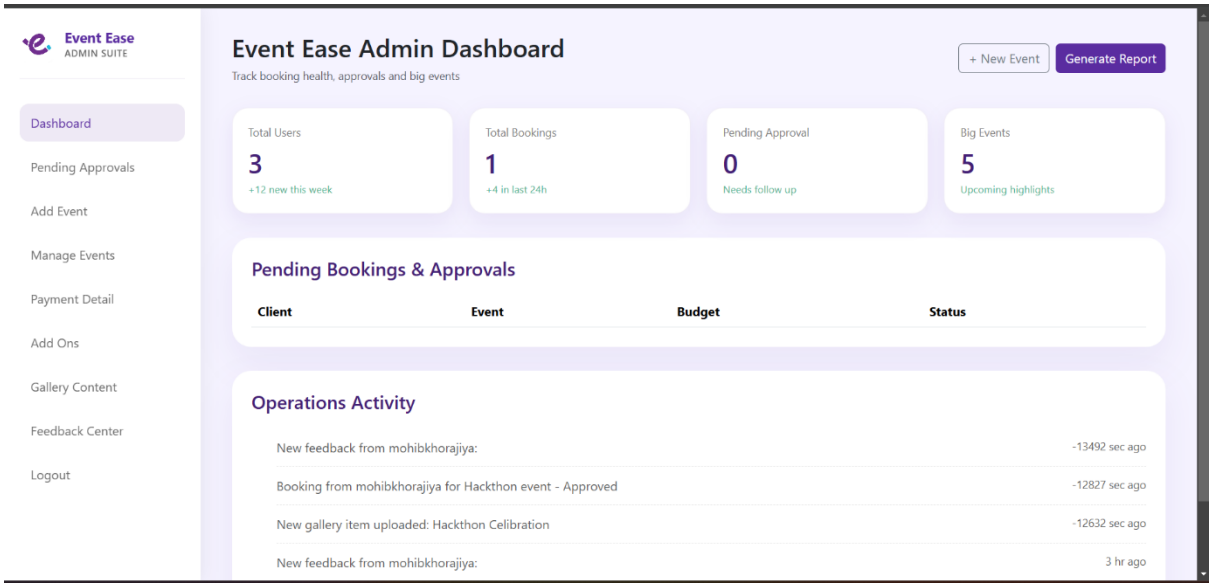


Figure 21 Admin Dashboard :

This page provides an overview of the system's operational status, including total users, total bookings, pending approvals, and upcoming major events. It helps administrators monitor platform activity at a glance.

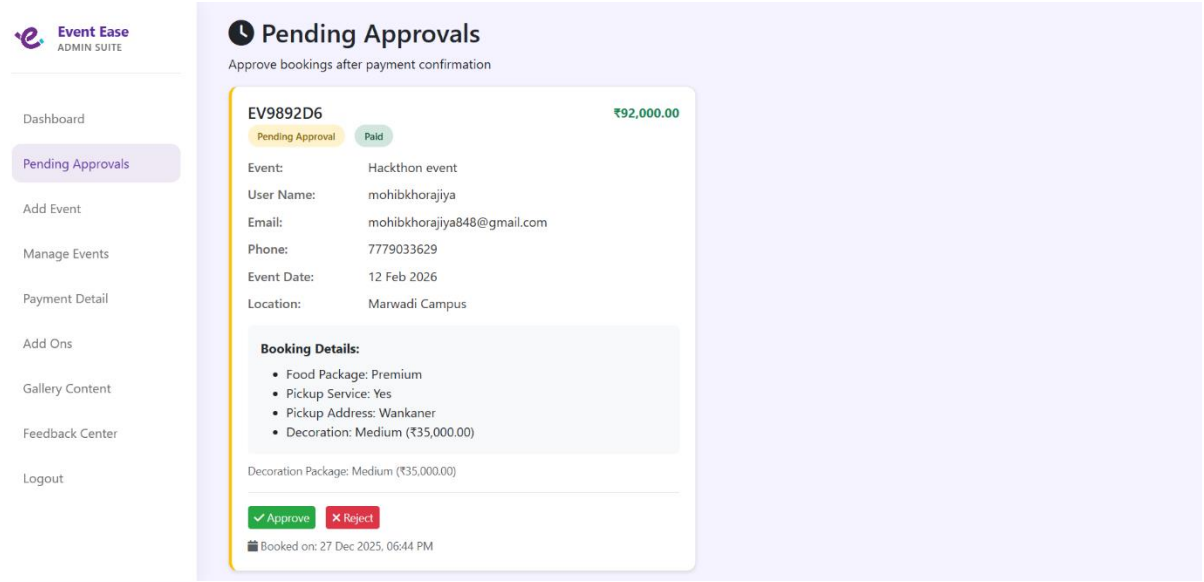


Figure 22 Pending Approvals Page :

This screen allows administrators to review and approve or reject event bookings after payment confirmation. It displays complete booking, user, and service details for decision-making.

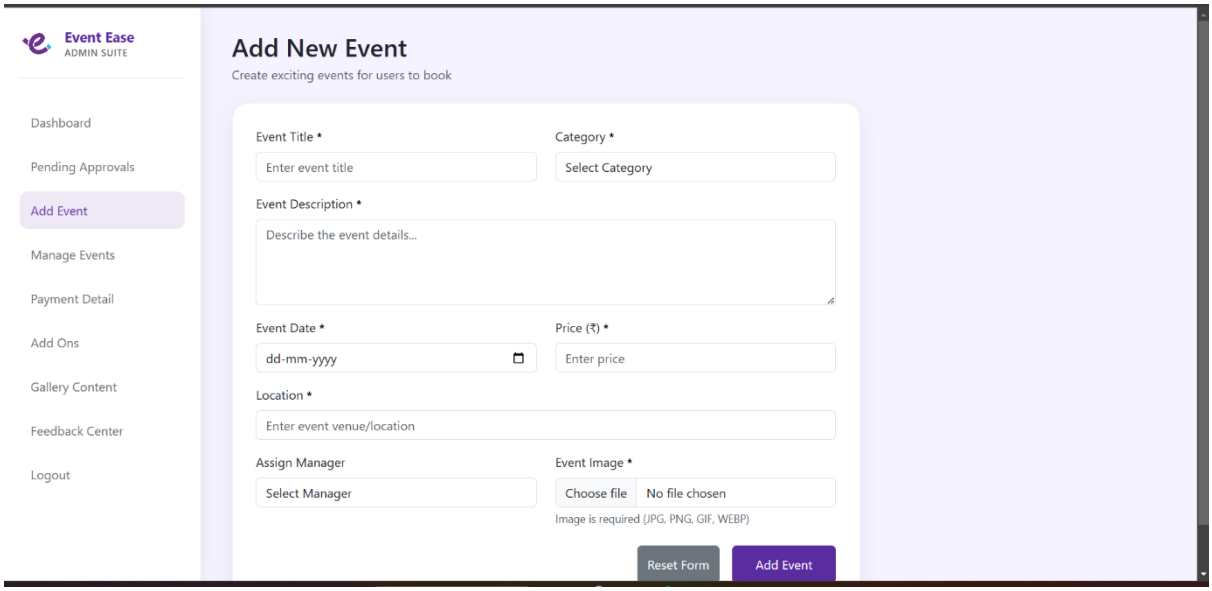


Figure 23 Add Event Page :

This page enables administrators to create new events by entering event details such as title, category, description, date, price, location, manager assignment, and event image.

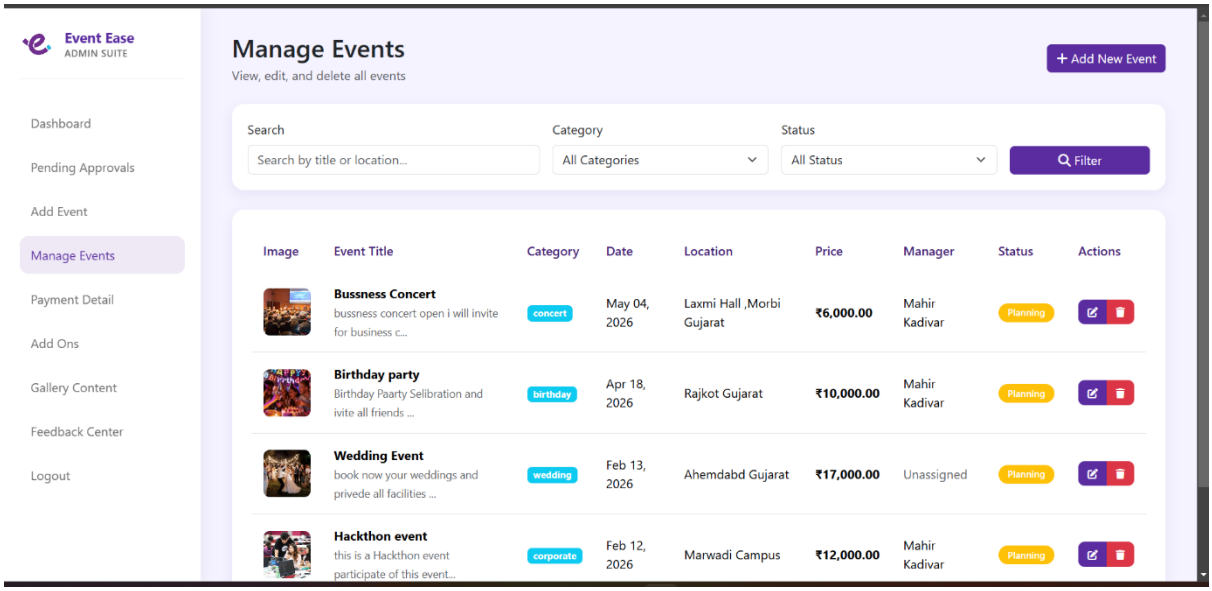


Figure 24 Manage Events Page :

This screen allows administrators to view, edit, filter, and delete existing events. Events are displayed with details such as category, date, location, price, manager, and current status.

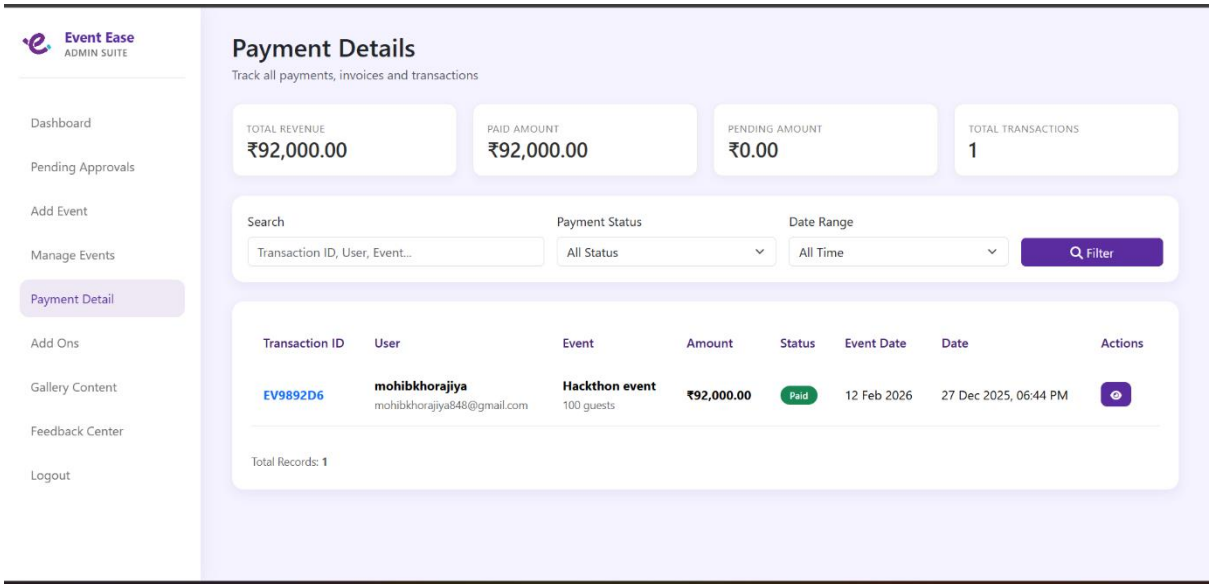


Figure 25 Admin Payment Details Page :

This page provides a detailed overview of all financial transactions, including total revenue, paid amount, pending amount, and individual transaction records with filtering options.

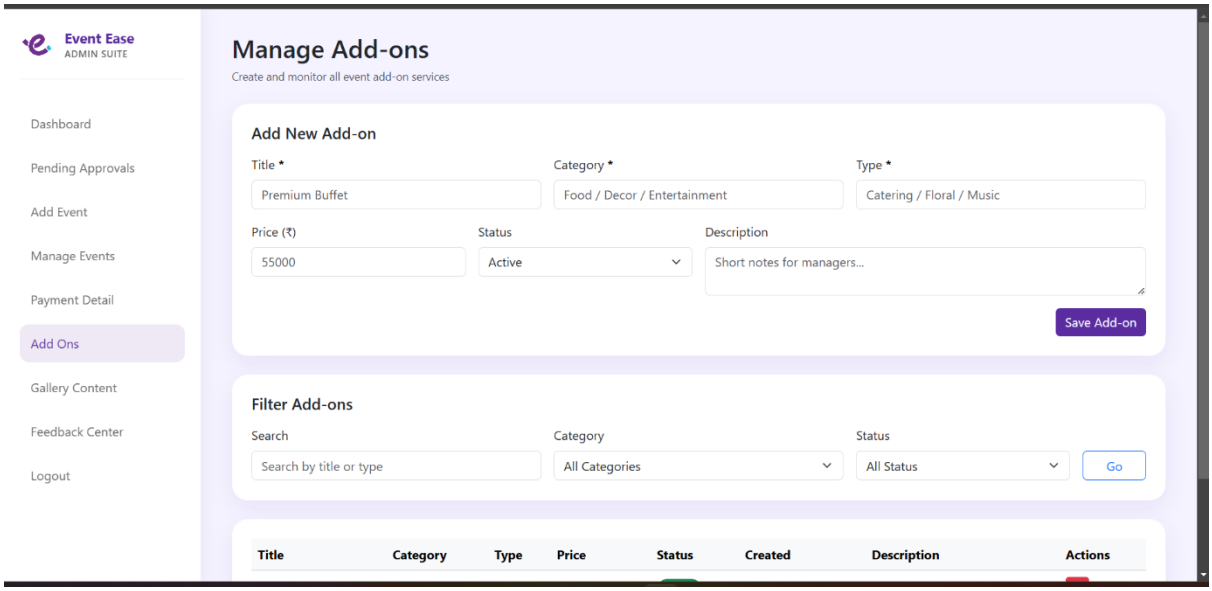


Figure 26 Manage Add-ons Page :

This screen allows administrators to create, update, and manage event add-on services such as catering, decoration, and entertainment along with pricing and availability status.

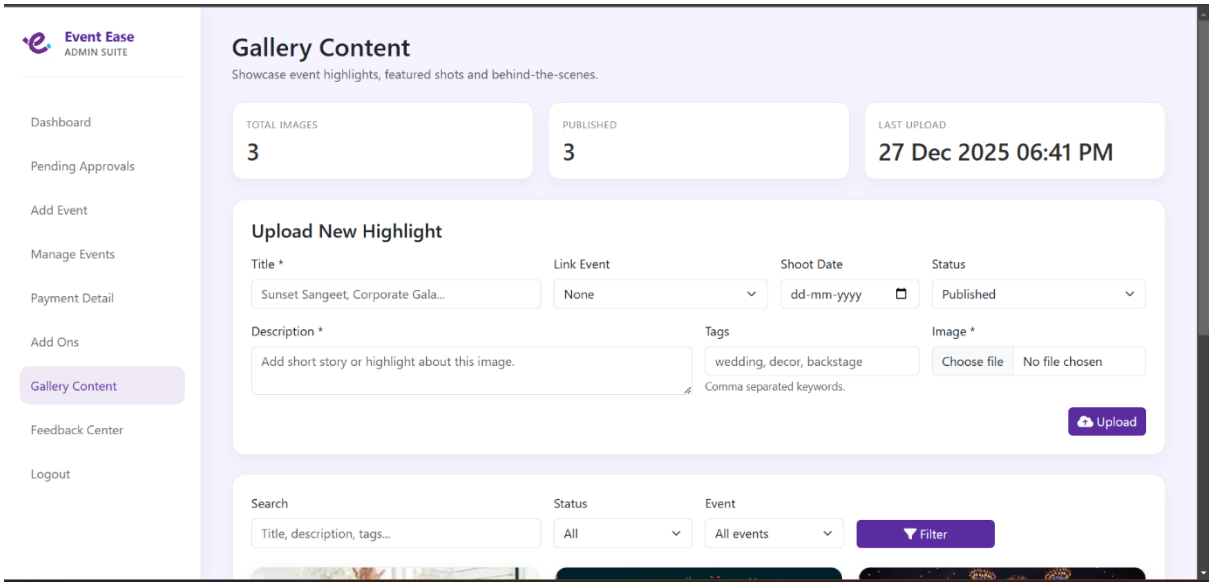


Figure 27 Gallery Content Page :

This page enables administrators to upload and manage gallery images related to events. It includes options to add titles, descriptions, tags, event links, and publishing status.

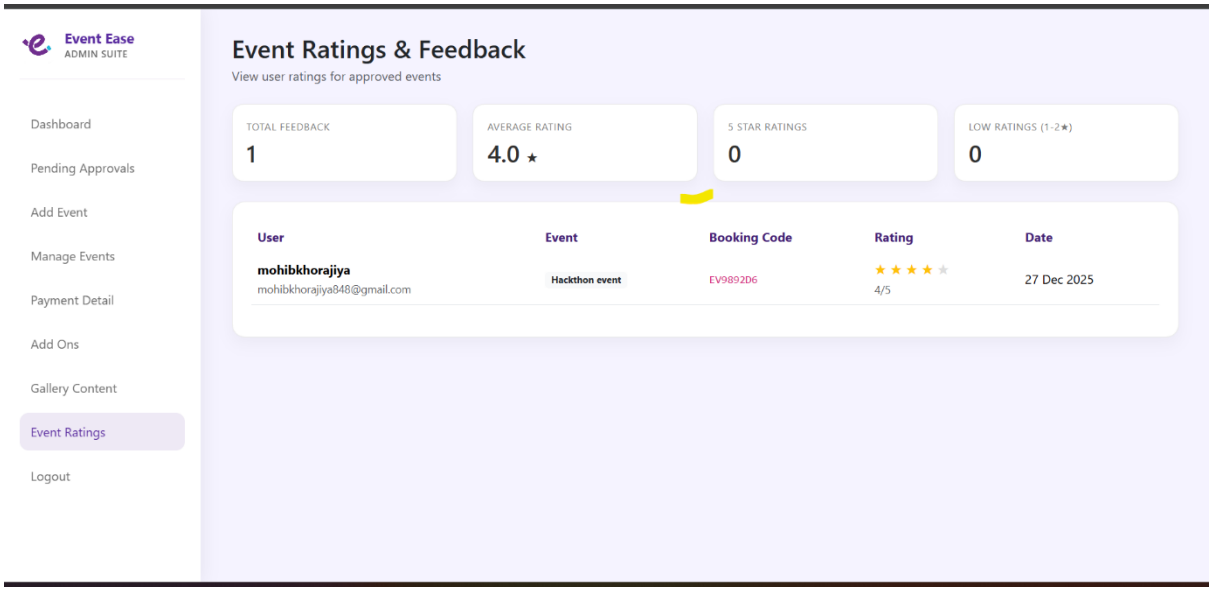


Figure 28 Event Ratings and Feedback Page :

This screen displays user ratings and feedback for approved events. It provides summary statistics such as average rating and detailed feedback records to help improve service quality.

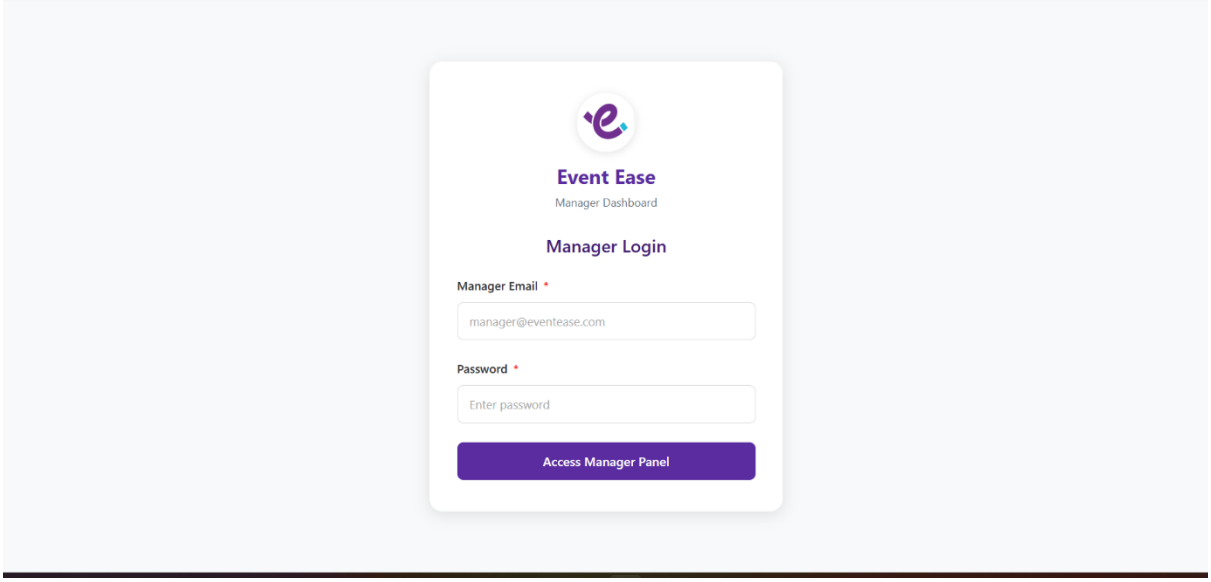


Figure 29 Manager Login Page :

This screen allows event managers to securely log in to the EventEase Manager Panel using authorized credentials. Only registered managers can access assigned events and operational features.

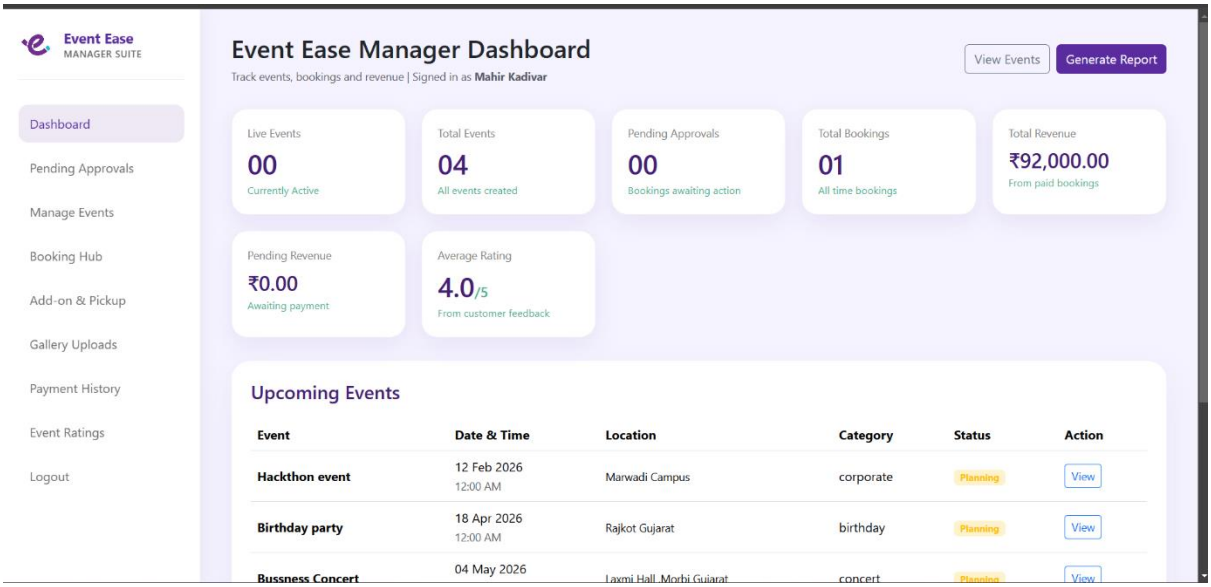


Figure 30 Manager Dashboard :

This page provides an overview of the manager's assigned events, bookings, revenue, pending approvals, and average event ratings. It helps managers track event performance and operational status in real time.

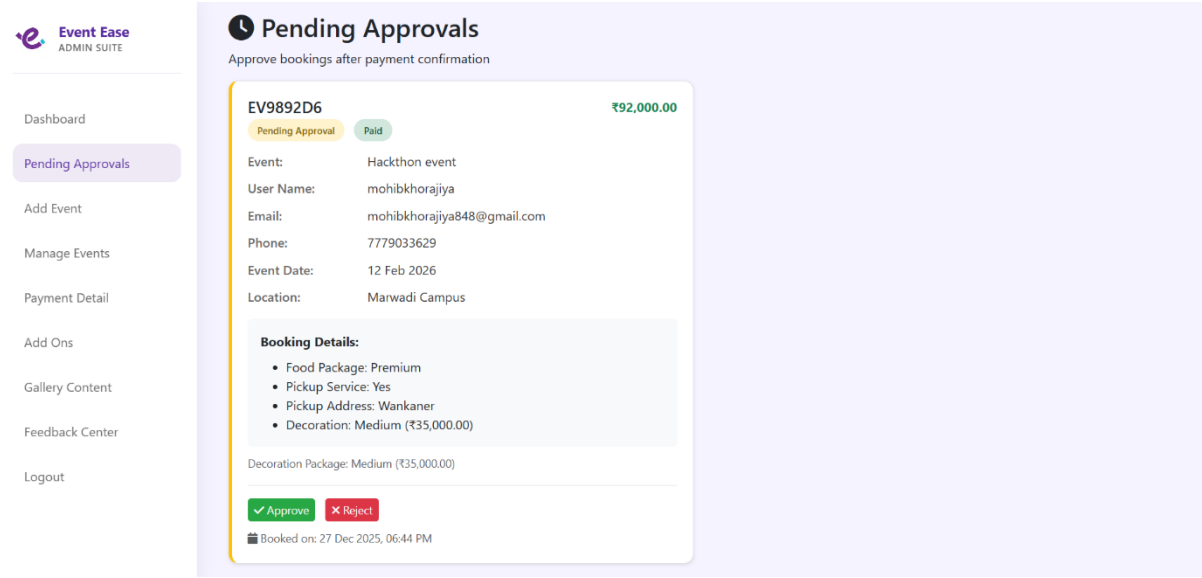


Figure 31 Pending Approvals Page – Manager :

This screen allows managers to review booking requests assigned to them and approve or reject bookings after verifying payment and event details.

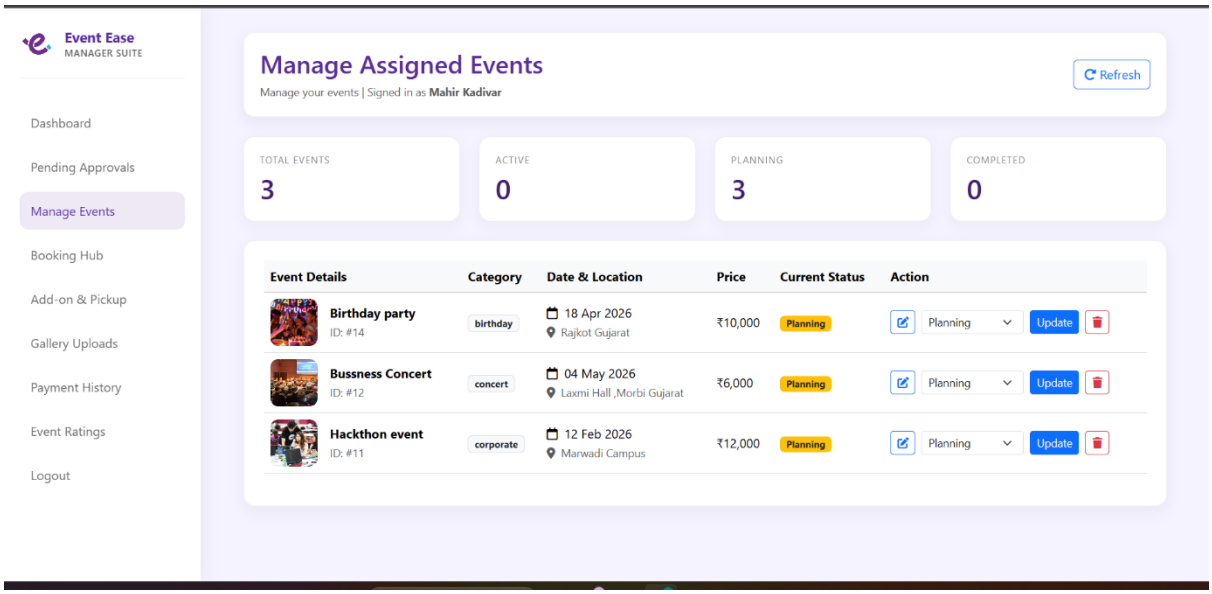


Figure 32 Manage Assigned Events Page :

This page displays all events assigned to the logged-in manager. Managers can view event details, update event status (planning, active, completed), and manage event progress.

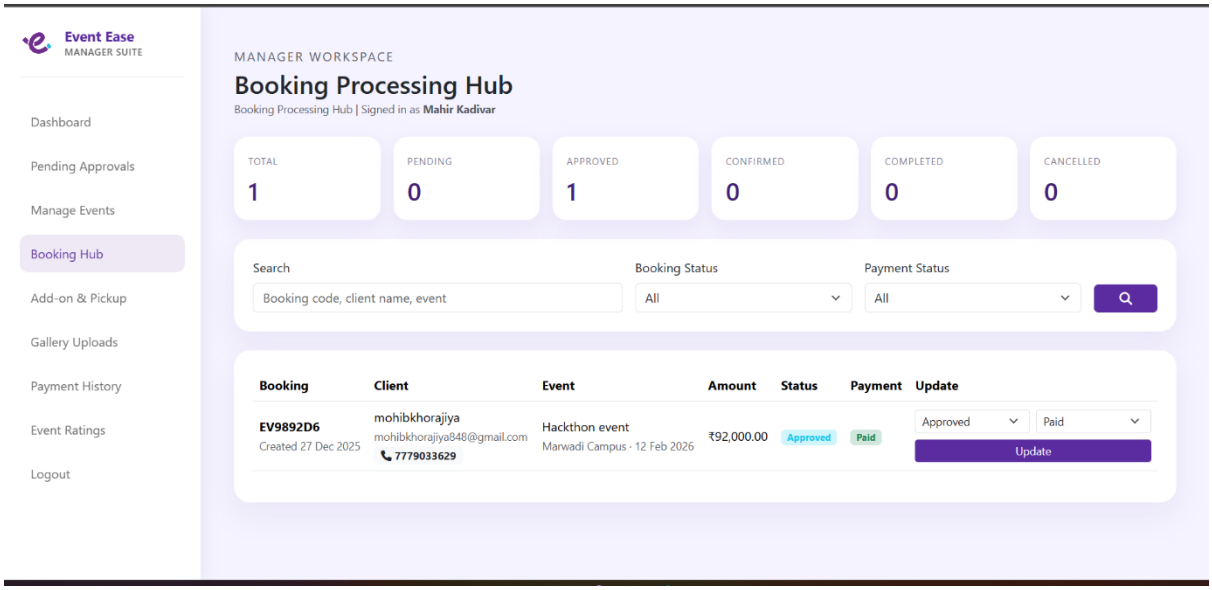


Figure 33 Booking Processing Hub :

This screen allows managers to track and manage all bookings related to their events. It provides booking status, payment status, client details, and options to update booking approvals.

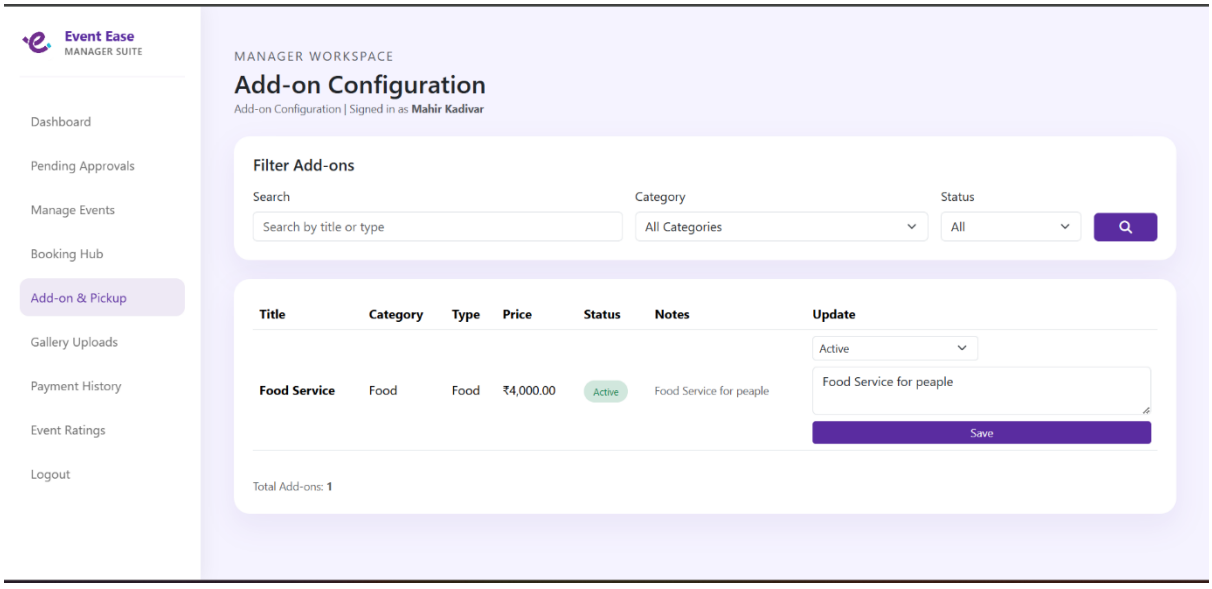


Figure 34 Add-on Configuration Page :

This page enables managers to manage add-on services such as food, decoration, and pickup services. Managers can update pricing, availability status, and notes related to each add-on.

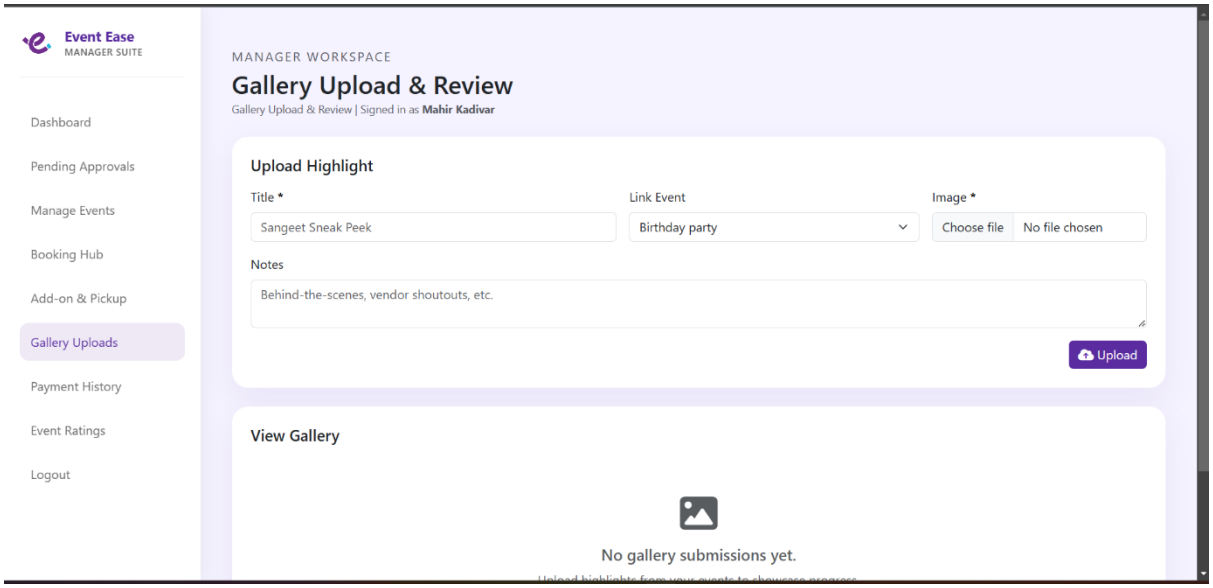


Figure 35 Gallery Upload Page – Manager :

This screen allows managers to upload event highlights and gallery images. Uploaded images can be linked to events and reviewed before being displayed on the user-facing gallery.

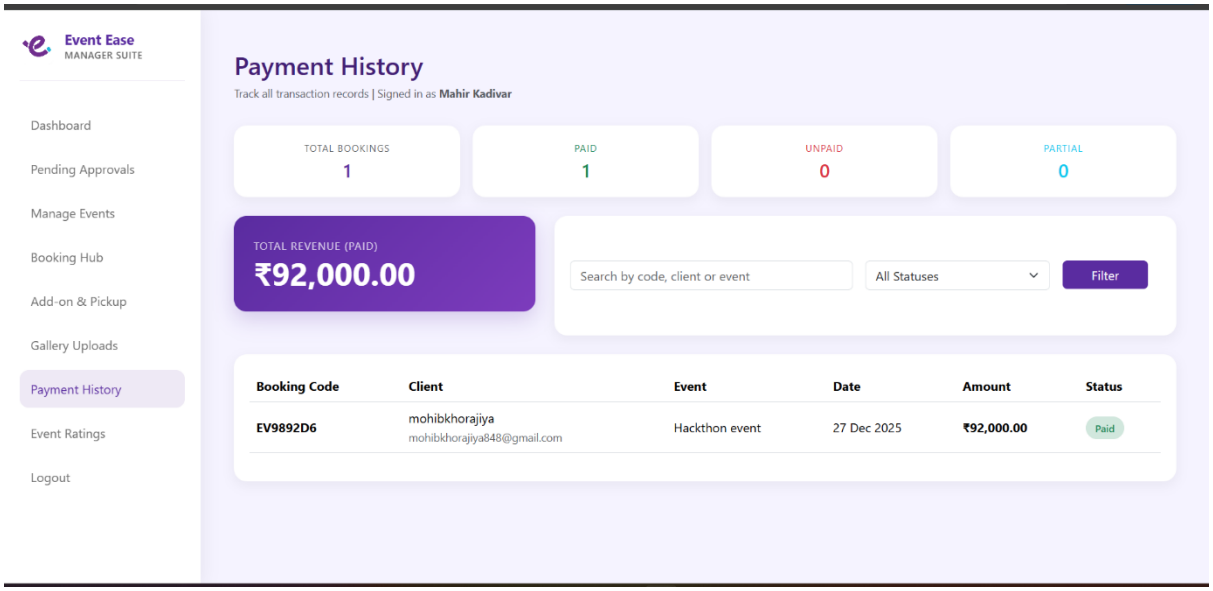


Figure 36 Payment History Page – Manager :

This page displays payment records for bookings related to the manager's assigned events. It includes booking codes, client details, payment amount, date, and payment status.

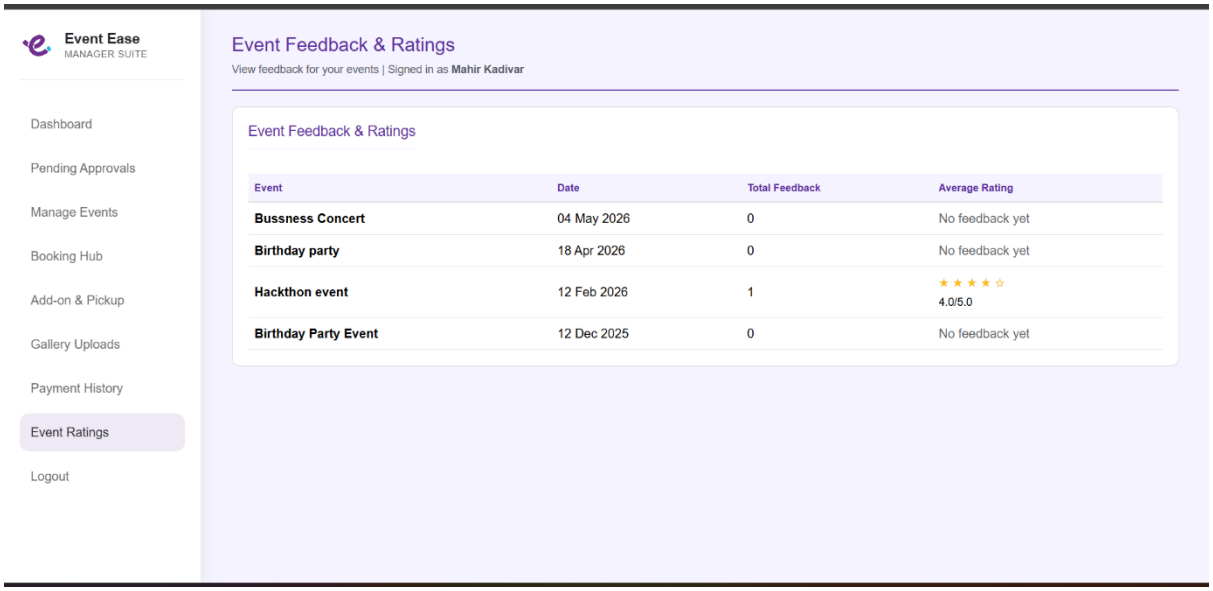


Figure 37 Event Feedback and Ratings Page – Manager :

This screen allows managers to view user feedback and ratings for their events. It provides average ratings and feedback counts to help evaluate event quality and customer satisfaction.