

# Problem Statement & Objectives

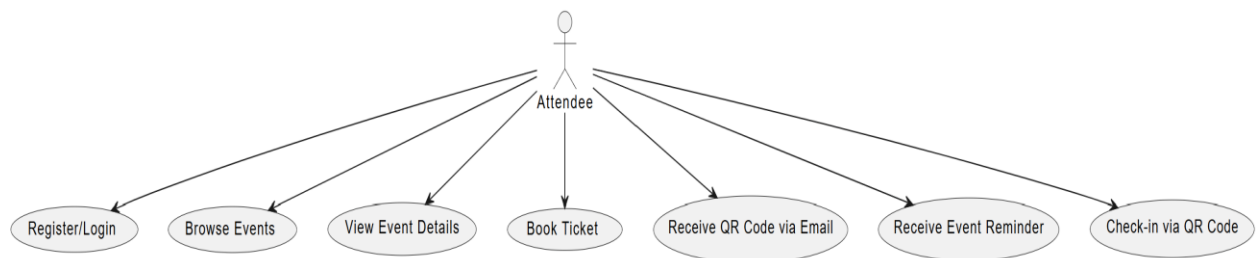
## Problem Statement

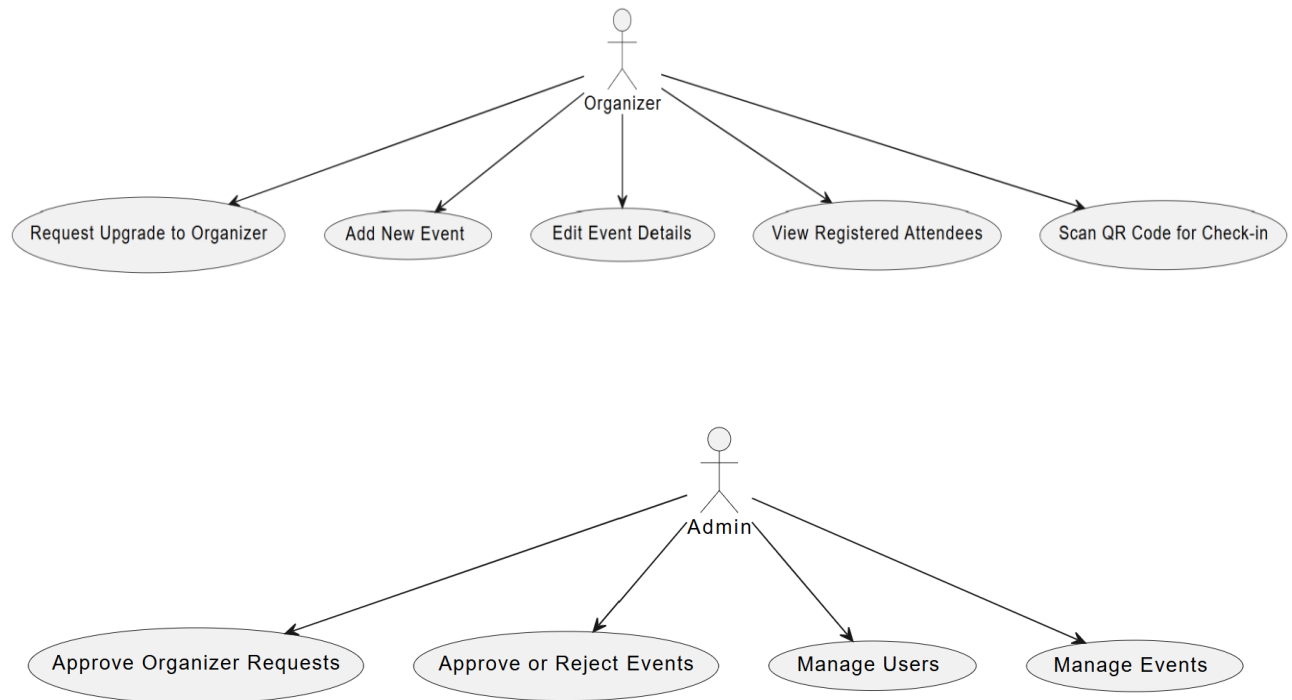
The current event organization process faces several challenges, including inefficient communication, lack of task coordination, and difficulty in managing attendees and team members. Existing solutions do not provide a centralized platform that integrates event scheduling, task assignment, and real-time notifications. This project aims to develop a streamlined system that enhances event planning efficiency, improves collaboration among organizers, and ensures attendees stay informed.

## Objectives

### 1. Identify System Actors and Interactions

- Utilize **Use Case Diagrams** to map out user roles and system interactions.





### Description:

- **Organizer:** Creates events, assigns tasks, and sends notifications.
- **Attendee:** Receives updates and registers attendance.
- **Admin:** Manages users and monitors system performance.

## 2. Define Functional & Non-Functional Requirements

- Clearly outline what the system should do and the constraints it must adhere to.

### *Functional Requirements:*

The system should allow event organizers to create new events.

☒ Notifications should be sent in real-time for event updates.

Users should be able to register attendance via the platform.

### ***Non-Functional Requirements:***

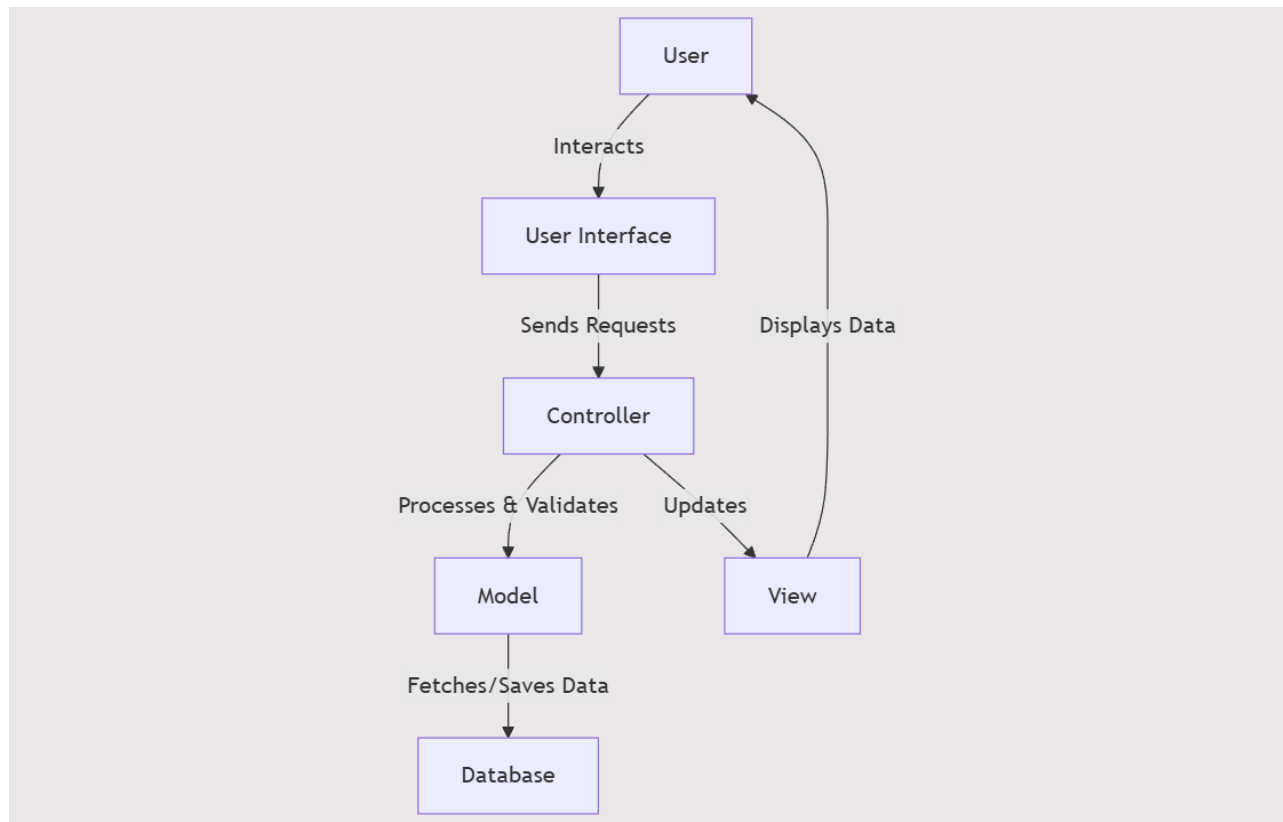
The system should respond to user actions within 2 seconds.

Different user roles should have varying levels of access.

The platform should be accessible on both mobile and desktop.

## **3. Establish Software Architecture**

- Develop a high-level system design, defining key components and their interactions (e.g., MVC pattern, microservices).



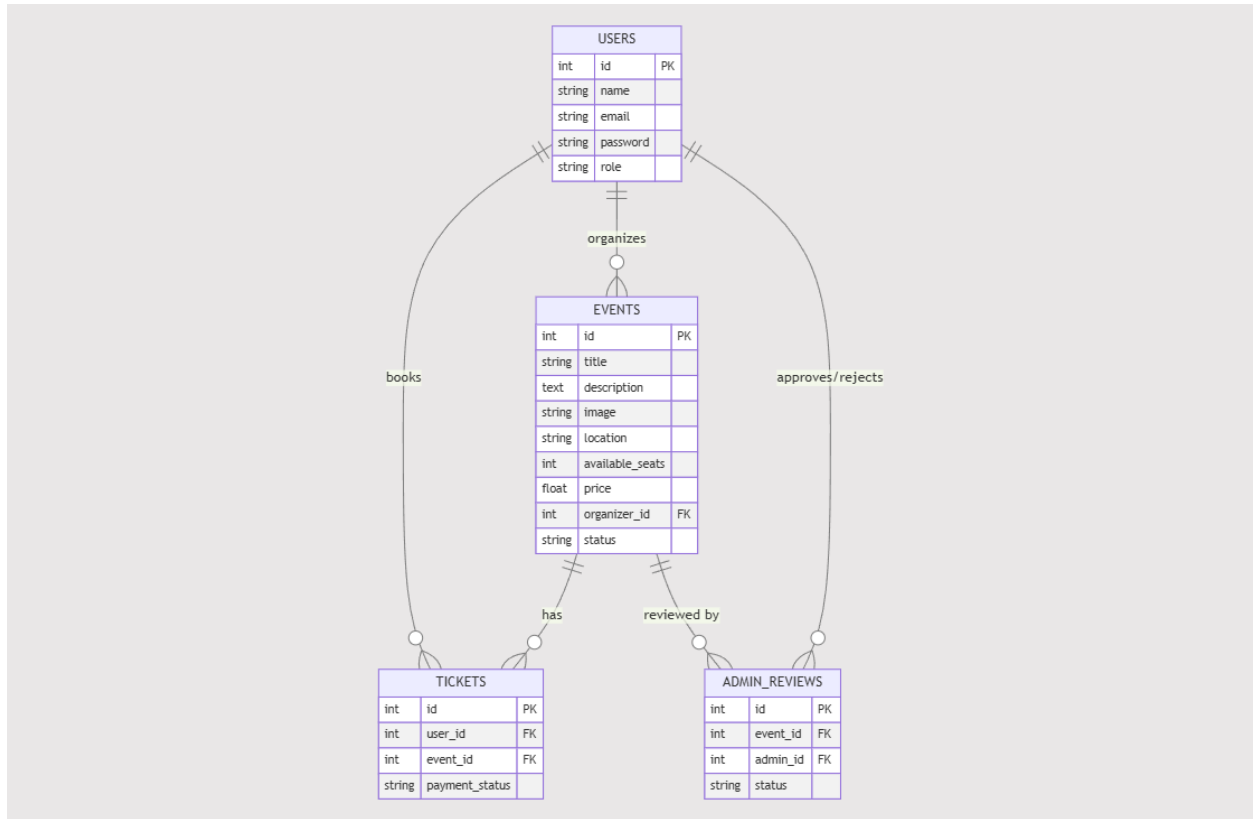
### Description:

- **Frontend (UI):** Displays events and user interactions.
- **Backend (Controller & Model):** Processes requests and manages data.
- **Database:** Stores user information, events, and notifications.

This document serves as the foundation for further system analysis and design phases, ensuring a structured development approach.

# Database Design & Data Modeling

## ER Diagram (Entity-Relationship Diagram)

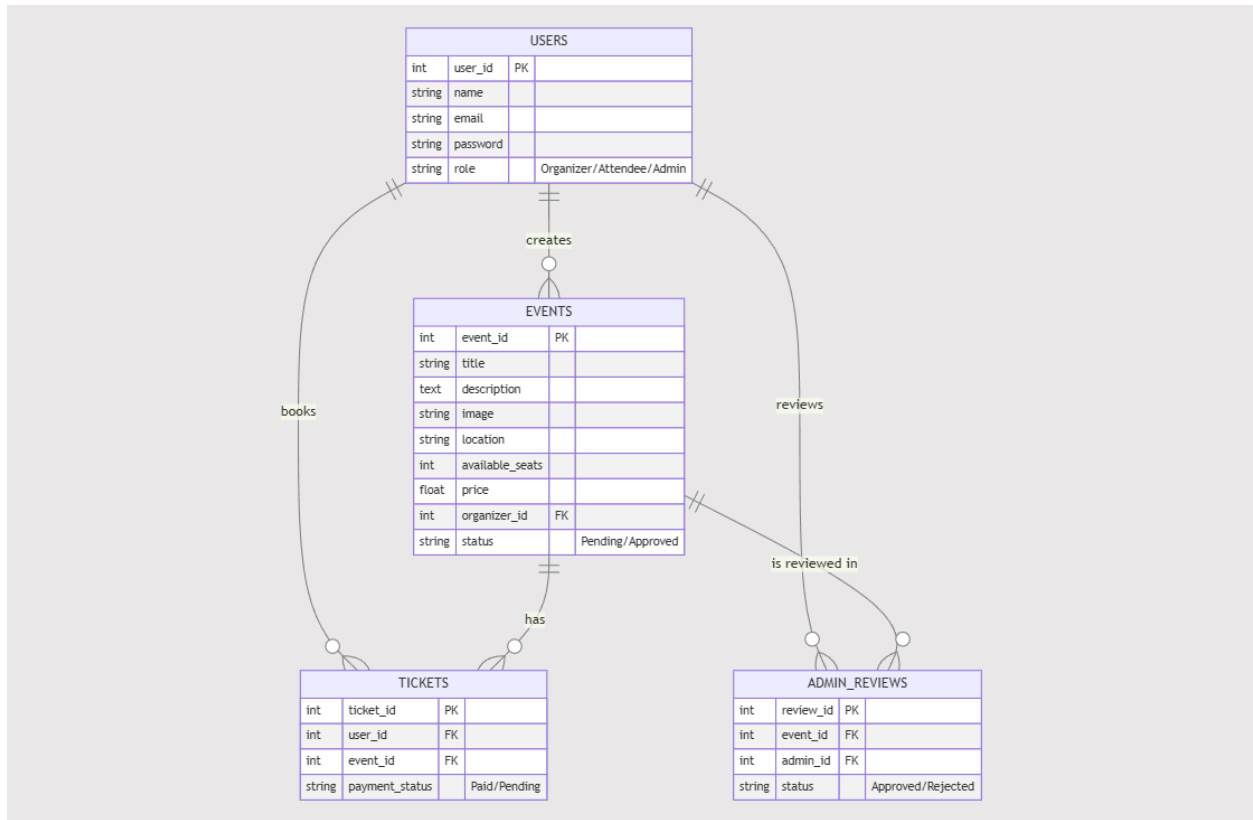


### Description:

- Defines entities such as **Users, Events, Tickets, and Admin Reviews**.
- Illustrates relationships between entities (e.g., One-to-Many, Many-to-Many).

## Logical & Physical Schema

- Tables, attributes, keys, and normalization considerations.



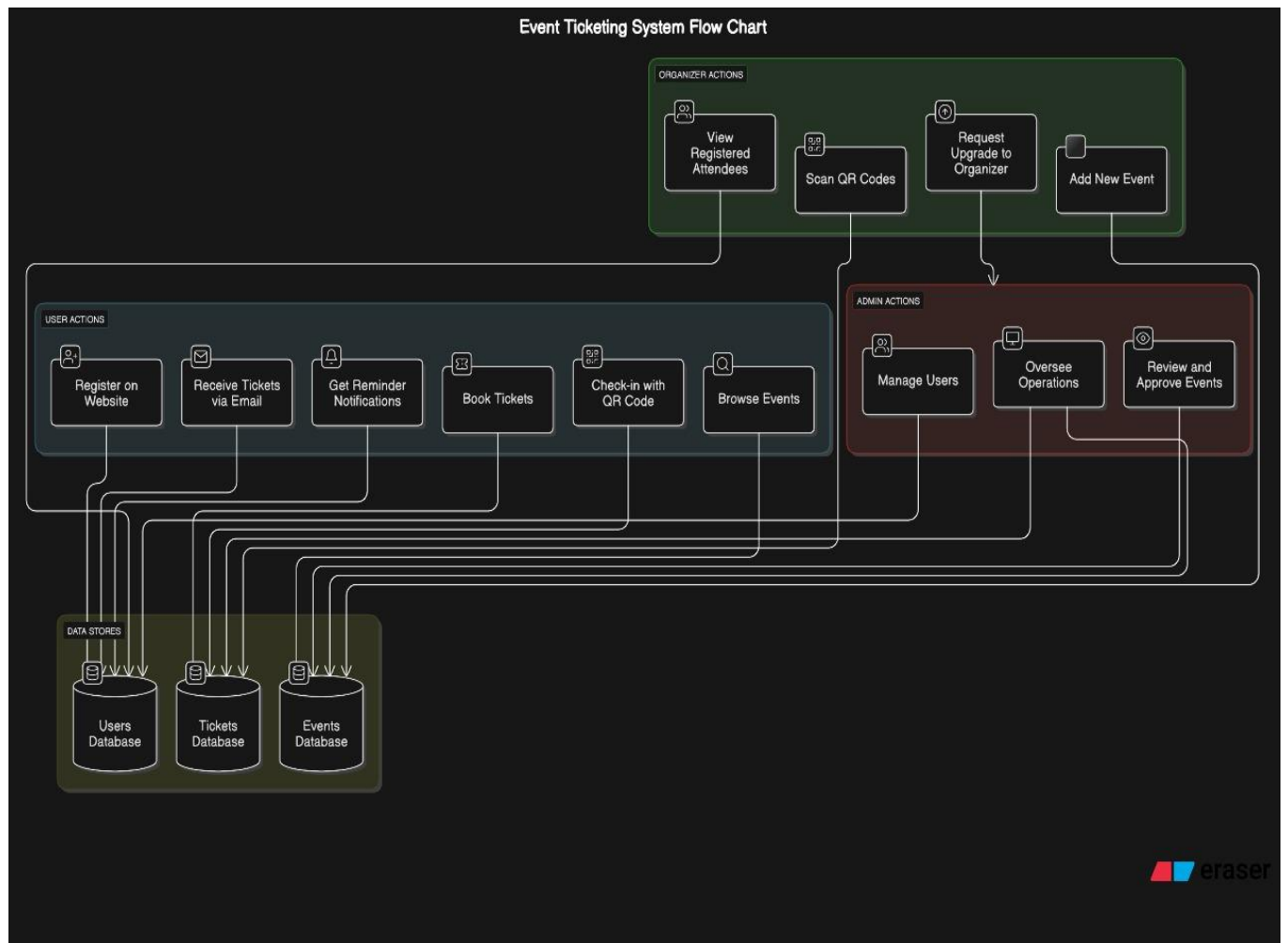
## Description:

- **Users Table:** Stores user details (ID, name, role, email, etc.).
- **Events Table:** Contains event details (ID, title, description, image, location, seats, price, organizer ID, status).
- **Tickets Table:** Stores ticket bookings (ticket ID, user ID, event ID, payment status).
- **Admin Reviews Table:** Tracks event approval process (review ID, event ID, admin ID, status).

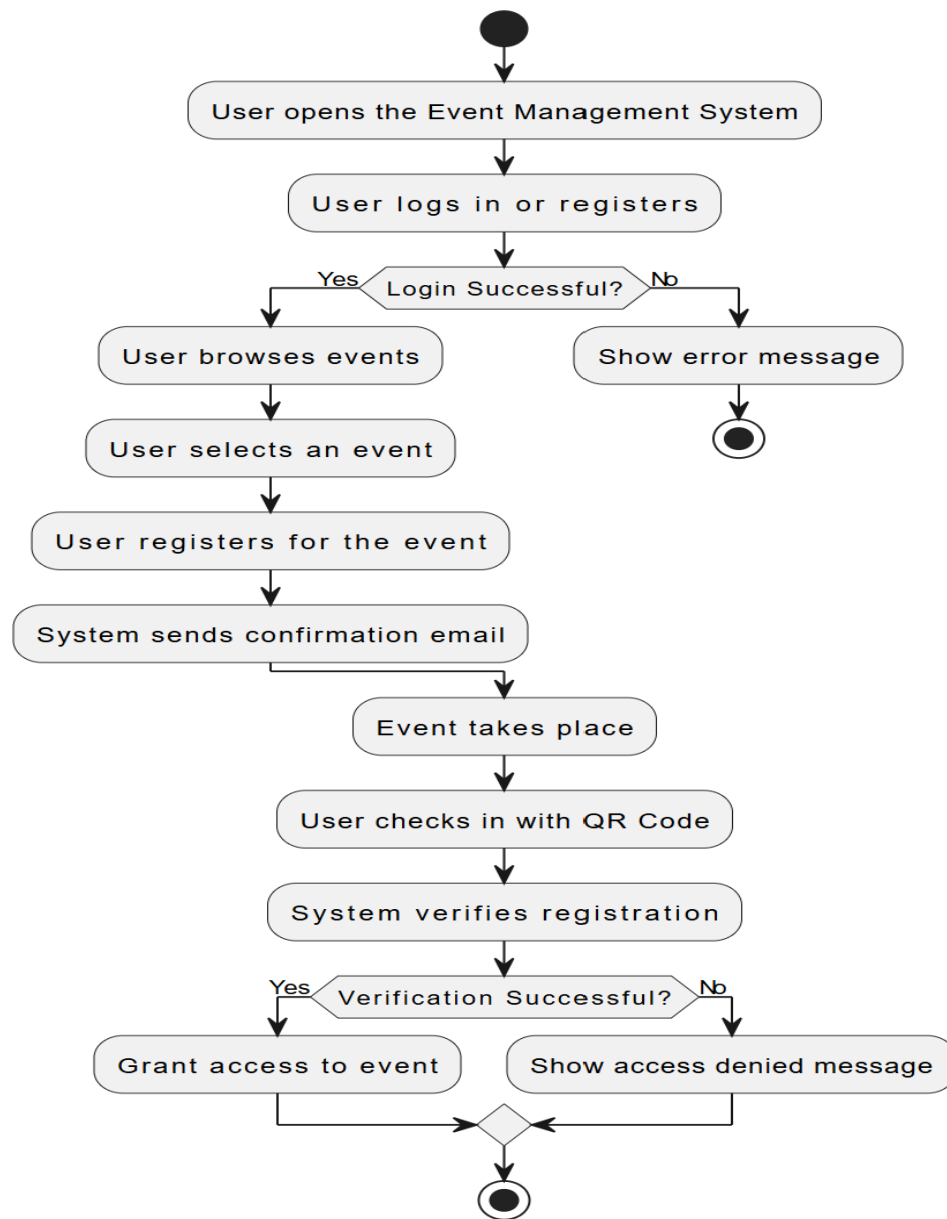
This section ensures a well-structured database model to support the system efficiently.

# Data Flow& System Behavior

## DFD (Data Flow Diagram)

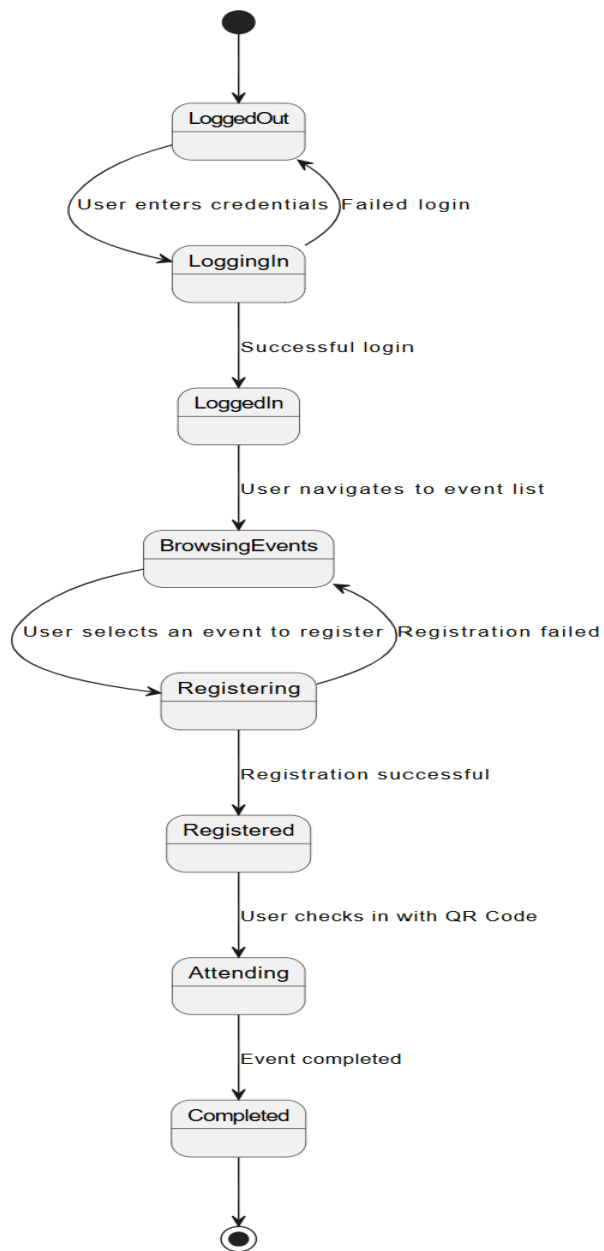


## Sequence Diagrams



## State Diagram





## Class Diagram



# Summer Music Festival 2025

Experience the biggest music festival of the year featuring top artists from around the world.

July 15-17, 2025 Central Park, New York

Get Tickets

Search events...



Event Type

Date

Location

## Upcoming Events

Event Image

### Rock Concert

Mar 15, 2025

Madison Square Garden

View Details

Event Image

### Theater Show

Mar 20, 2025

Broadway Theater

View Details

Event Image

### Sports Match

Mar 25, 2025

Yankees Stadium

View Details

### About EventTix

Your trusted platform for discovering and booking event tickets.

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support@eventtix.com  
 +1 (555) 123-4567

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## 2. Event Details Page

EventHub

EventsCategoriesAboutSign In

Event Featured Image

Tech Conference 2025

Book Ticket

March 15, 20259:00 AM - 5:00 PM

Location

Tech Convention Center

123 Innovation Street, Silicon Valley, CA

Google Maps Integration

Ticket Information

Early Bird\$299

Regular\$399

VIP Access\$599

Book Now

Share Event

About Event

Join us for the biggest tech conference of 2025. This event brings together industry leaders, innovators, and tech enthusiasts for a day of learning, networking, and inspiration. Experience keynote speeches, workshops, and panel discussions on the latest technological trends and developments.

Speakers

Sarah Johnson

CEO, Tech Innovations

Michael Chen

CTO, Future Labs

Related Events

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AI Summit 2025

April 20, 2025

Learn More

Event Image

DevOps Conference

May 15, 2025

Learn More

Event Image

Blockchain Summit

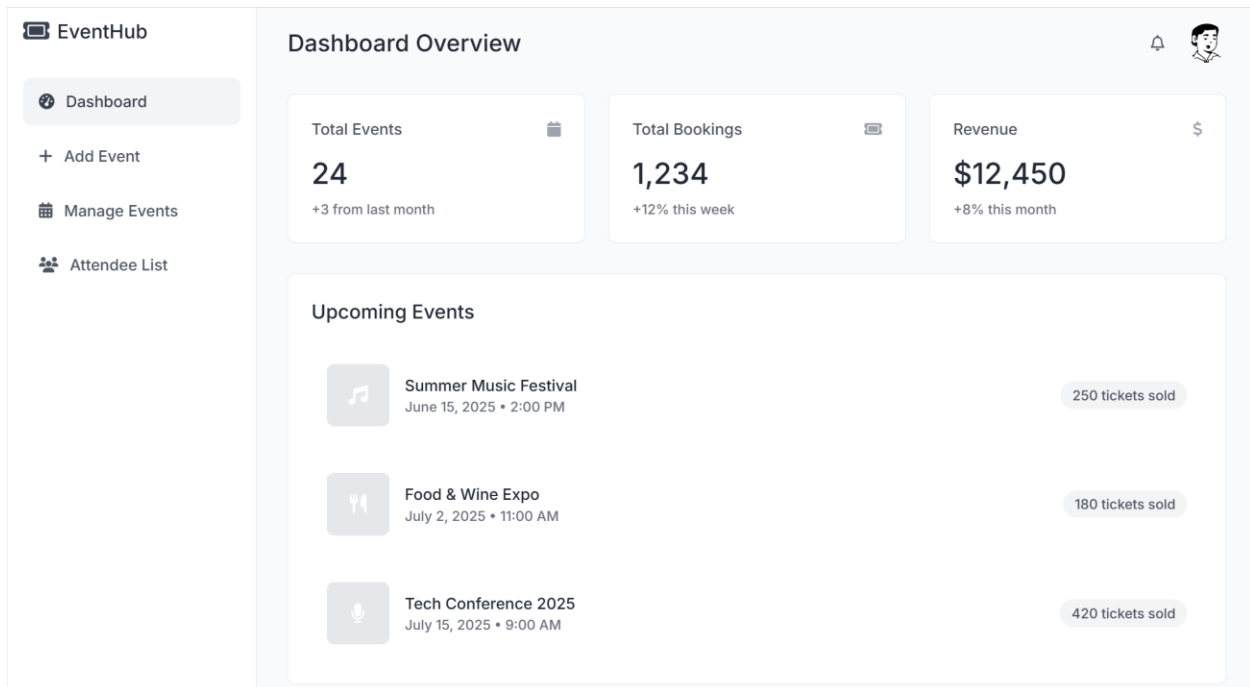
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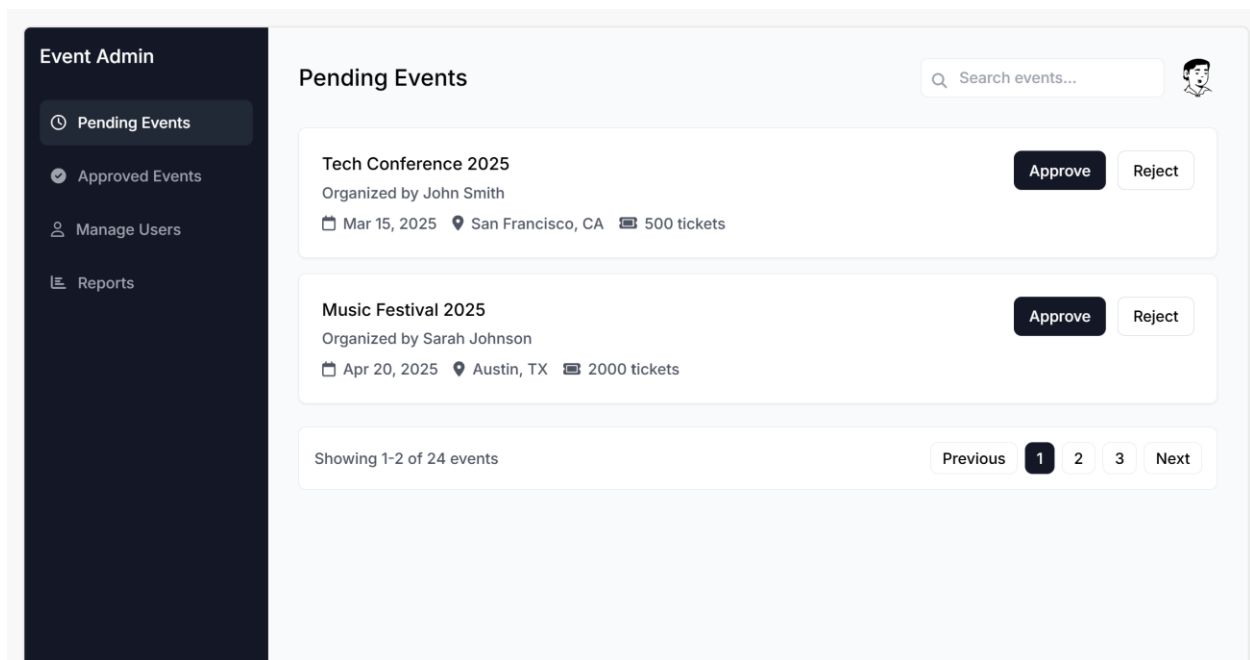
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## 3. Organizer Dashboard



## 4. Admin Dashboard



## 5. My Tickets Page (For Attendees)

## My Tickets

Manage your upcoming and past event tickets

Upcoming Events

Past Events

Event Image

### Tech Conference 2025

📅 March 15, 2025

🕒 9:00 AM - 5:00 PM



Download

View Details

Event Image

### Music Festival

📅 April 5, 2025

🕒 2:00 PM - 11:00 PM



Download

View Details

## 6. User Registration & Login Page



## Welcome back

Sign in to your account

Email


Password


☐ Remember me

[Forgot password?](#)

Sign in

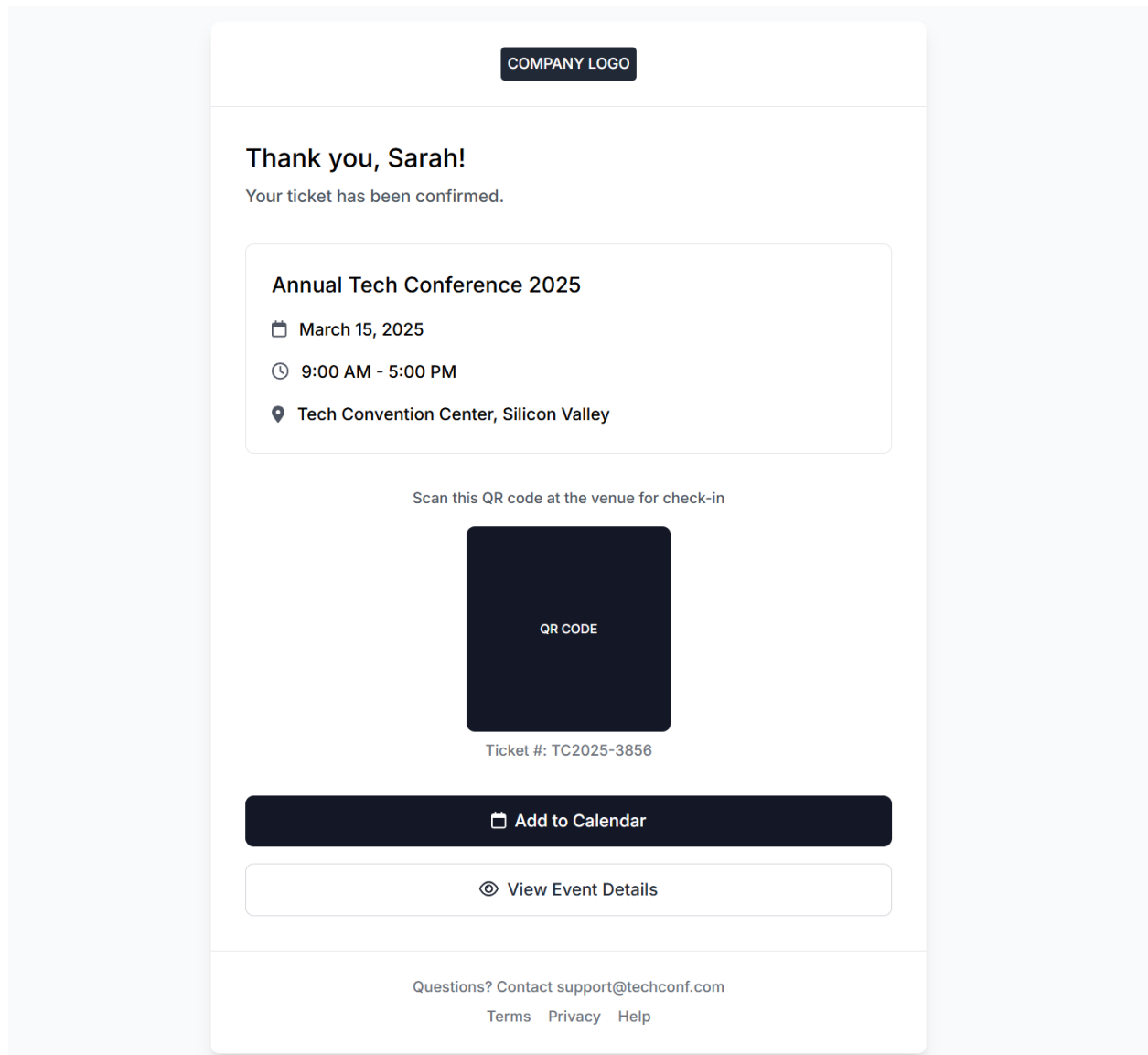
Or continue with

 Google

 Facebook

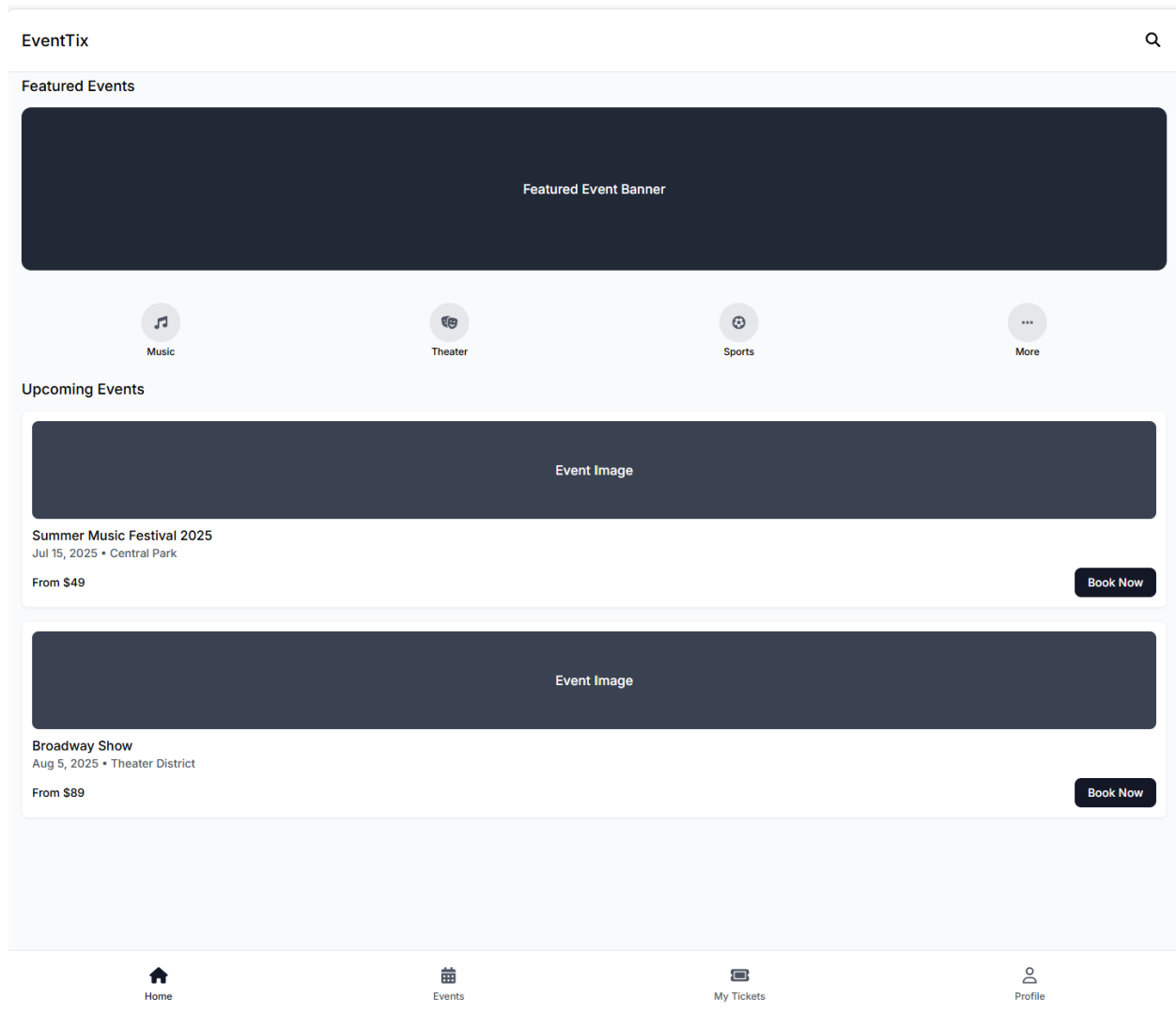
Don't have an account? [Sign up](#)

## 7. Email Confirmation & QR Code Page



## 8. Mobile View Adaptation

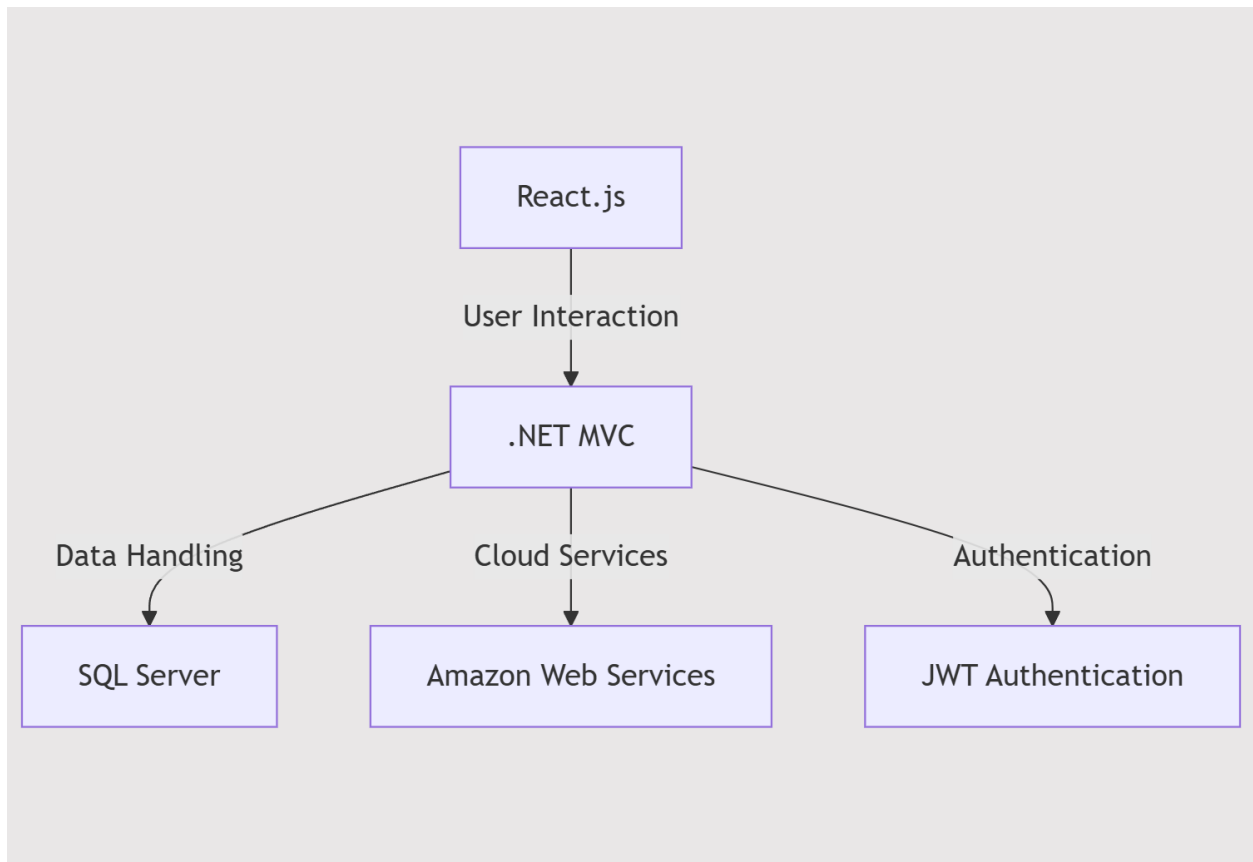




# System Deployment & Integration

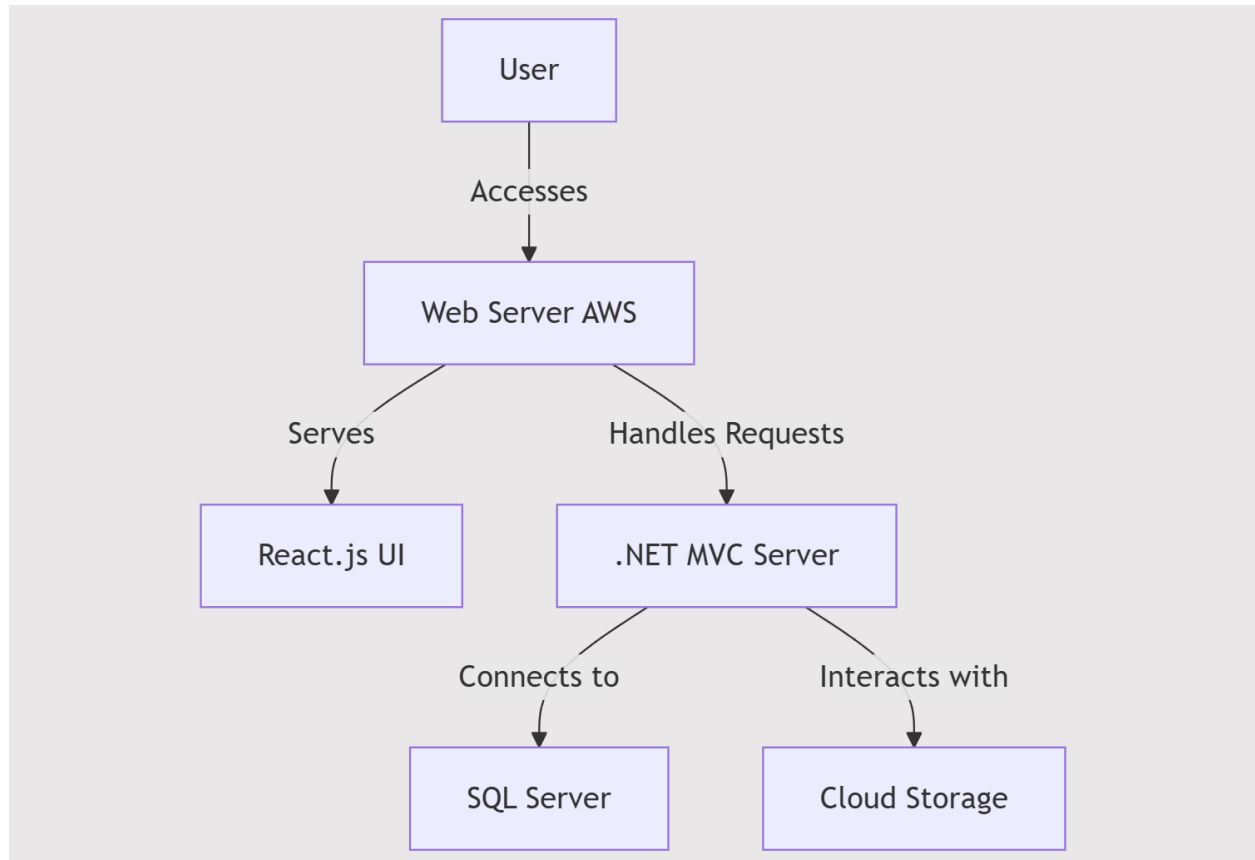
## Technology Stack

- **Backend:** .NET MVC
- **Frontend:** React.js
- **Database:** SQL Server
- **Deployment Environment:** Cloud-based (e.g., AWS, Azure)



**Description:** Visual representation of the chosen technologies and their interactions.

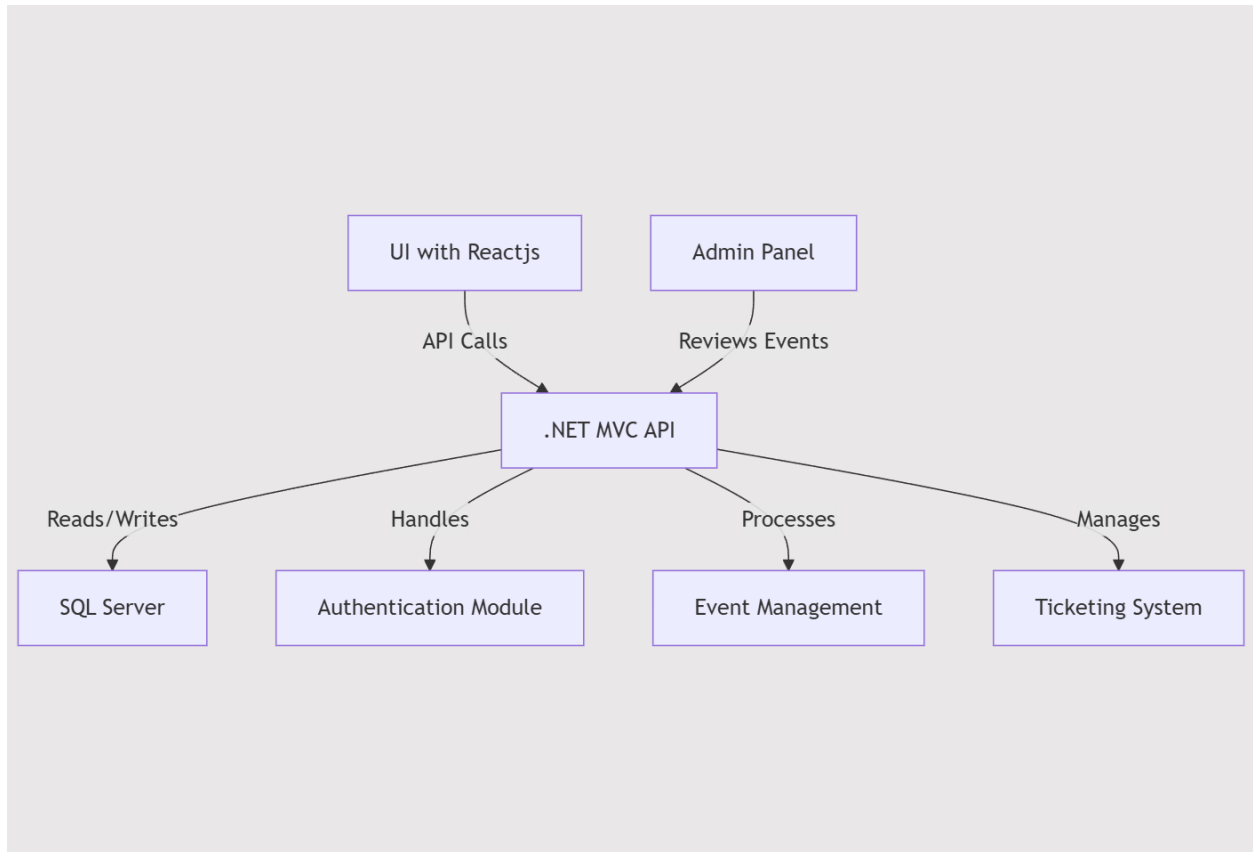
## Deployment Diagram



### Description:

- **Frontend:** React.js UI hosted on a cloud service.
- **Backend:** .NET MVC server handling requests and responses.
- **Database:** SQL Server managing all data.

## Component Diagram



### Description:

- **User Interface (React.js) → API Controller (.NET MVC) → Database (SQL Server).**
- **Authentication Module, Event Management, Ticketing System** as core backend components.

This section ensures proper deployment planning and a clear understanding of system components and interactions.