

# 1. Project Proposal

**Project Title:** Eventa – A platform to create, manage, and join events with ease.

## 1.1 Overview:

This project aims to develop a web application that allows users to discover, create, and manage events. Inspired by Eventbrite, the platform will serve two main user roles: **Event Organizers** and **Attendees**. Organizers can create event pages, manage tickets, and track attendance, while Attendees can browse events, purchase tickets, and save events they are interested in.

## 1.2 Objectives:

- To build a secure and scalable web application using [ASP.NET](#) MVC.
- To implement a clean, responsive, and user-friendly front-end.
- To provide a seamless experience for event discovery, registration, and ticketing.
- To deliver a fully functional minimum viable product (MVP) within the proposed timeline.

## 1.3 Scope:

### In-Scope (MVP Features):

- **User Authentication & Authorization:** Registration, Login, and Role-based access (Attendee, Organizer).
- **Event Management:**
  - Organizers can Create, Read, Update, and Delete (CRUD) their own events.
  - Event details include title, description, date, time, location, category, and image.
- **Ticketing System:**
  - Organizers can define ticket types (e.g., Free, Paid) with quantities and prices.
  - Secure checkout process for attendees.
  - Basic order confirmation.
- **Event Discovery & Search:**
  - Homepage with featured/popular events.
  - Search and filter events by category.
- **User Dashboard:**

- Attendees: View their tickets and Favorited events.
- Organizers: Manage their created events and view basic stats.

### **Out-of-Scope (For Future Phases):**

- Payment Gateway Integration (Stripe/PayPal) - will be simulated for now.
- Advanced analytics and reporting for organizers.
- Email notifications and reminders.
- Social features (sharing, reviews, ratings).

## **2. Project Plan**

### **2.1 Milestones & Deliverables:**

- **M1:** Database Schema and Authentication System.
- **M2:** Fully functional Event Creation and Management module.
- **M3:** Complete Ticketing and Order Processing flow.
- **M4:** Fully functional search and user dashboards.
- **Final Deliverable:** Eventbrite clone web application with source code and documentation.

### **2.2 Resource Allocation:**

- **Backend Team (ASP.NET MVC, C#, Entity Framework, SQL Server):** Bansee AbdeInasser , Alaa Mahmoud, Mariam Tarek.
- **Frontend Team (HTML5, CSS3, JavaScript, Bootstrap, Razor Syntax):** Mariam Medhat, Mariam Hazem.

## **3. Stakeholder Analysis: Eventa Project**

### **1. Key Stakeholders, Interests & Influence**

#### **Project Team**

- **Stakeholders:** You, Alaa, Mariam T., Mariam M., Mariam H.
- **Interests & Needs:**

- Clear requirements and well-defined tasks
- Collaborative and respectful working environment
- Opportunities for skill development and learning
- Recognition for contributions
- Reasonable workload and work-life balance
- **Influence Level:** Medium
- **Impact:** High - Team morale directly affects project success

### **End-Users: Attendees**

- **Interests & Needs:**
  - Easy event discovery and search functionality
  - Simple and secure ticket purchasing process
  - Accurate event information and reliable organizers
  - Easy access to ticket history and management
- **Influence Level:** Low (individually)
- **Impact:** Very High - User adoption determines project success

### **End-Users: Event Organizers**

- **Interests & Needs:**
  - Efficient event creation and management tools
  - Flexible ticket type management
  - Reliable order processing system
  - Basic event performance tracking
- **Influence Level:** Low (individually)
- **Impact:** Very High - No organizers means no events

### **Project Instructor**

- **Interests & Needs:**
  - High-quality, functional MVP delivered on time
  - Demonstration of technical proficiency

- Evidence of good project management
- Professional documentation
- **Influence Level:** Very High
- **Impact:** Critical - Ultimate authority over project evaluation\

#### Functional Requirements

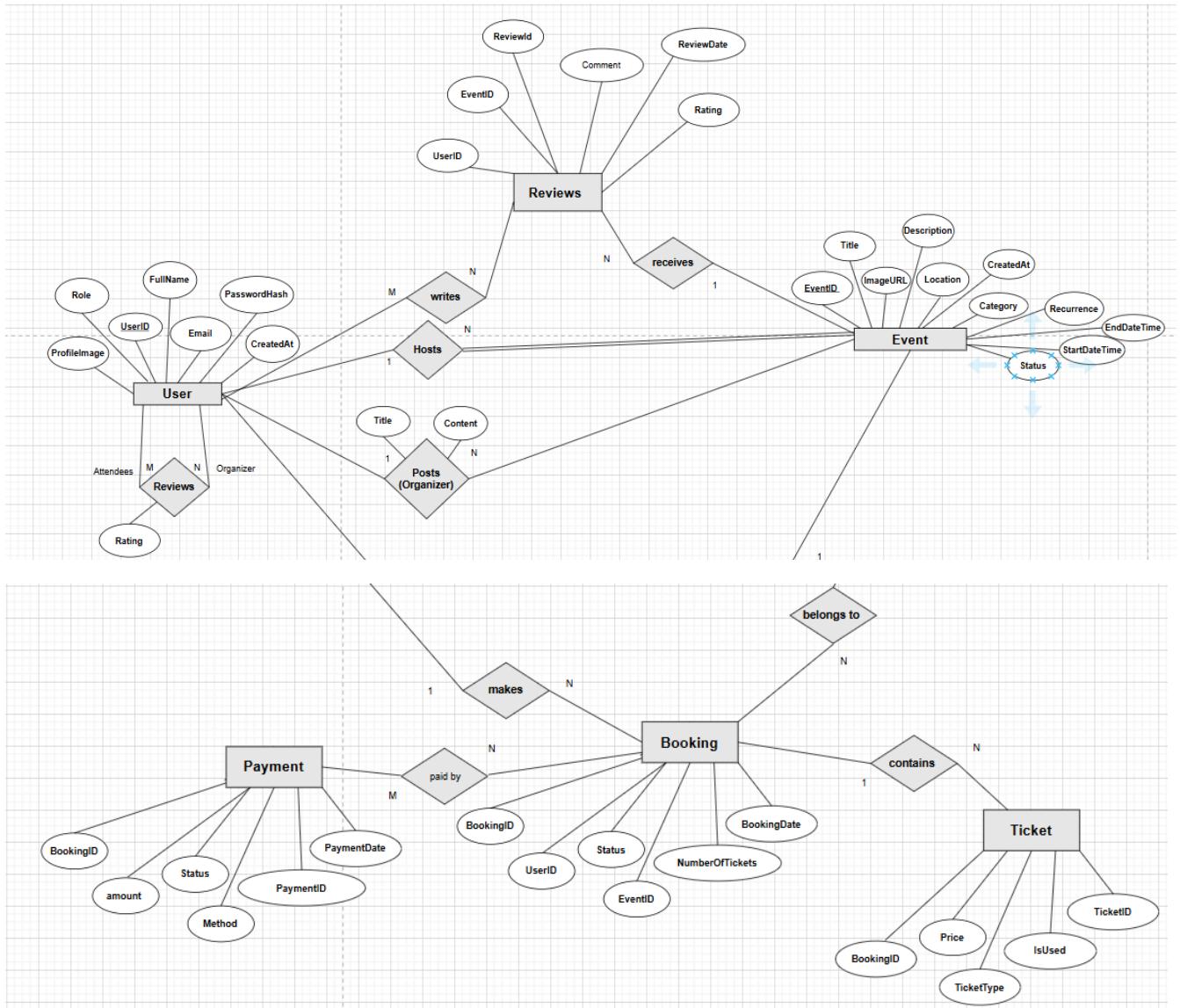
Functional Requirement	Description
User Registration & Login	Allow users to register using email, Google, or Facebook and log in securely.
Event Creation	Organizers can create events by providing details like title, date, location, and description.
Ticket Management	Enable organizers to set ticket types, prices, and quantities for each event.
Online Payment Processing	Support secure payment transactions using multiple gateways (Stripe, PayPal, etc.).
Event Search & Filter	Users can search events by name, date, category, or location.
Attendee Management	Organizers can view, download, and manage attendee lists and data.
Email Notifications	Send automated emails for confirmations, reminders, and updates.
Mobile Responsiveness	Ensure full usability and accessibility on mobile devices.
Event Sharing	Allow users to share event links on social media platforms.
Analytics Dashboard	Provide event organizers with insights such as ticket sales and attendee engagement.

#### Non-Functional Requirements

Non-Functional Requirement	Description
Performance	System should handle thousands of concurrent users without slowdowns.
Security	All user data and transactions must be encrypted (SSL/TLS).
Scalability	The platform should scale easily to support large global events.
Usability	Interface should be intuitive and user-friendly with minimal training required.
Availability	System uptime should be at least 99.9%.
Compatibility	Platform should support all major browsers and mobile OS versions.
Maintainability	Codebase should allow easy updates and debugging with minimal downtime.
Reliability	System must ensure no data loss even during peak loads or failures.

## 4. Database Design & Data Modeling

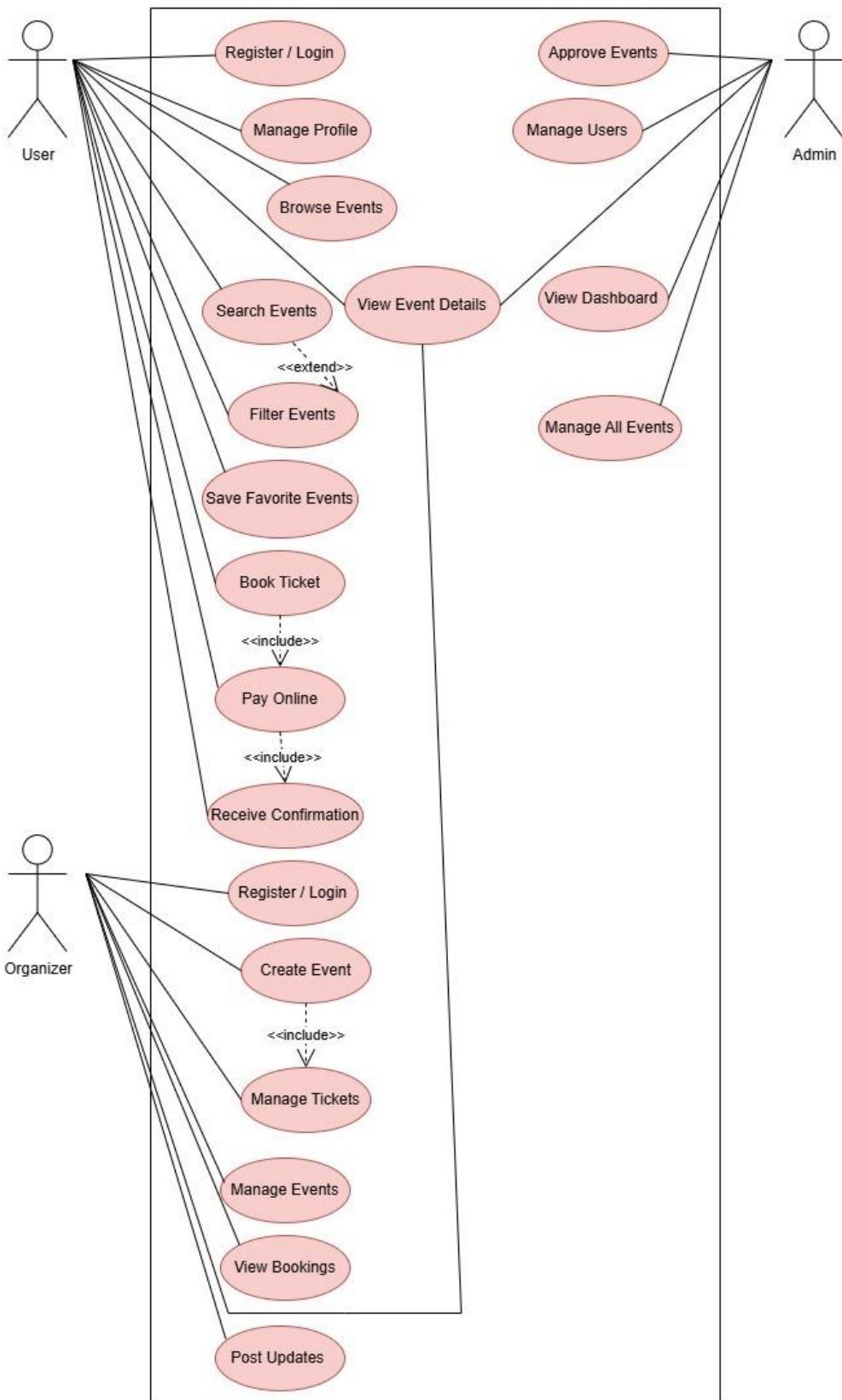
- ER Diagram (Entity-Relationship Diagram)



- Logical & Physical Schema



Event System



**Implementation (Source Code & Execution).**

<https://github.com/bansee-abdelnasser/DEPI-Project>