

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 Abdelnasser , 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

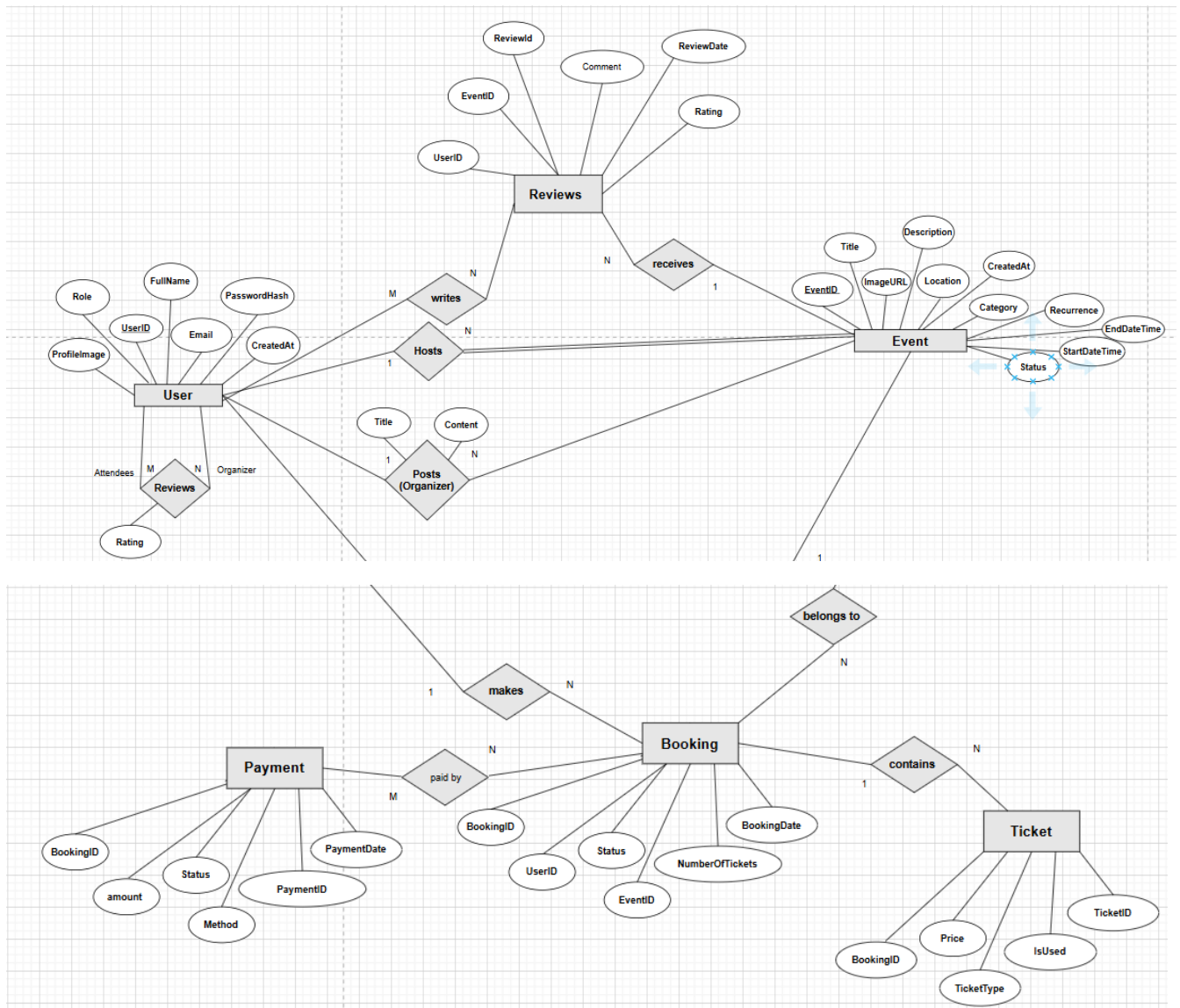
| Functional Requirement | Description |
|---------------------------|--|
| User Registration & Login | Allow users to register using email, Google, or Facebook and log in securely. |
| Event Creation | Organizers can create events by providing details like title, date, location, and description. |
| 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

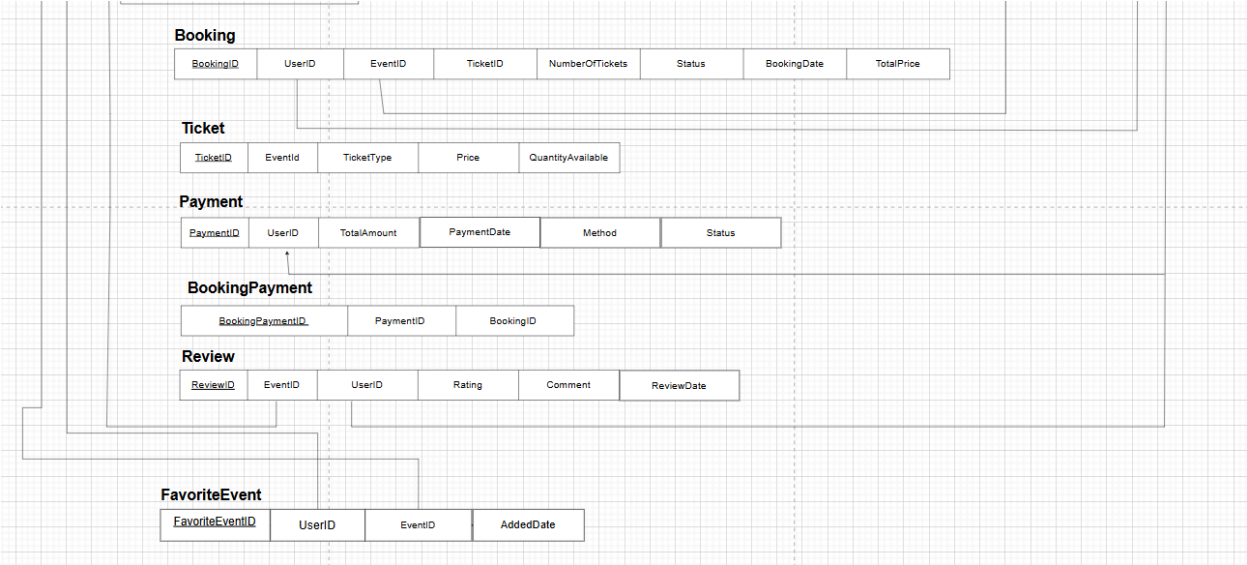
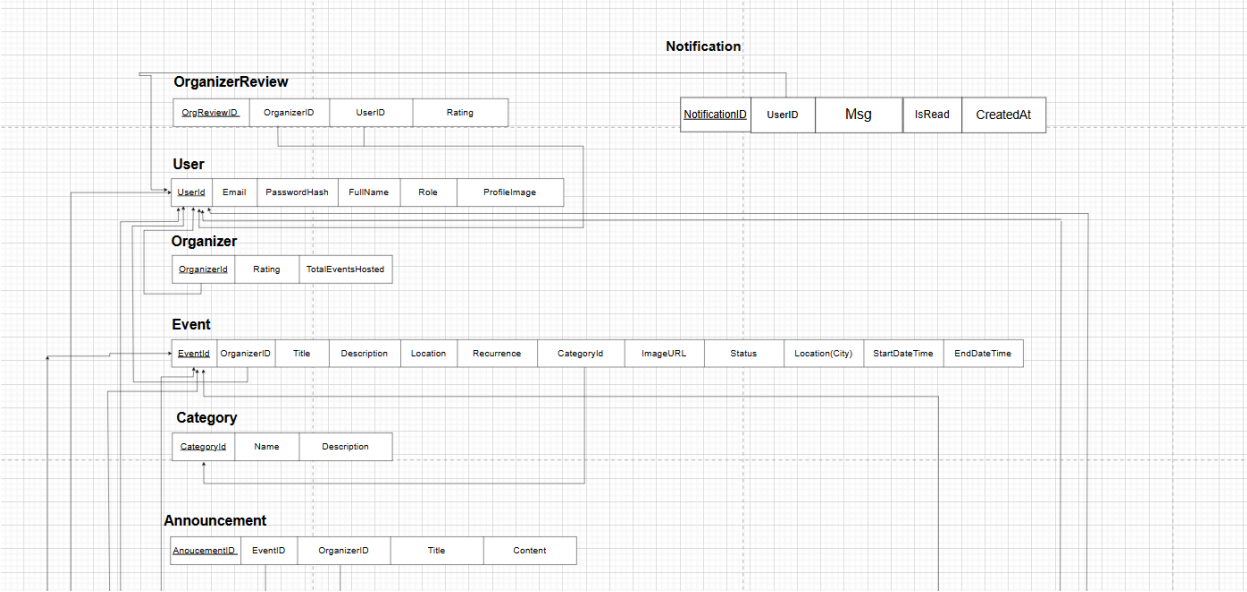
| Non-Functional Requirement | Description |
|----------------------------|---|
| Performance | System should handle thousands of concurrent users without slowdowns. |
| Security | All user data and transactions must be encrypted (SSL/TLS). |
| Scalability | The platform should scale easily to support 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

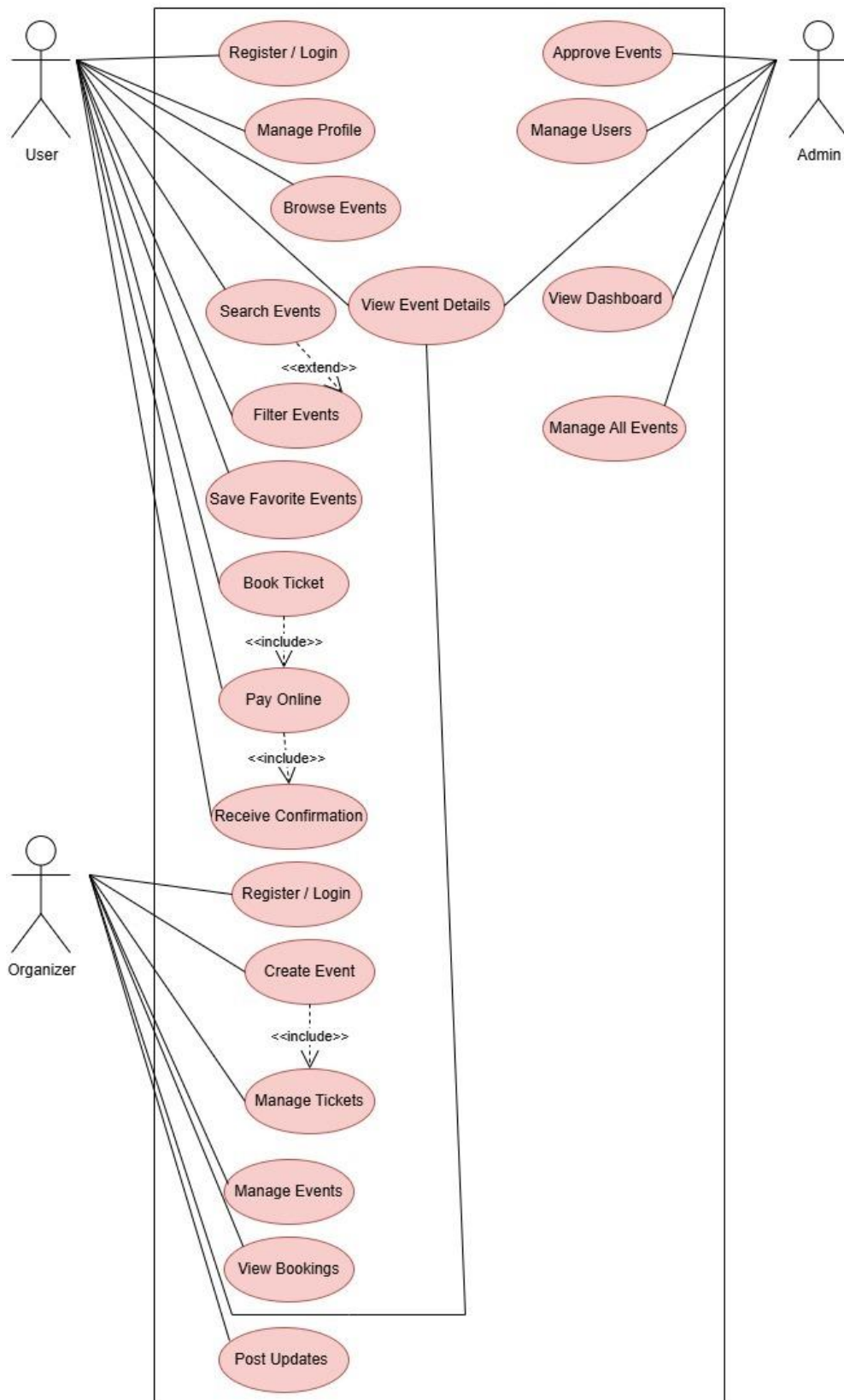
- ER Diagram (Entity-Relationship Diagram)



- Logical & Physical Schema



Eventa System



Implementation (Source Code & Execution).

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