**Web Engineering - Lab**

**Project Scope Report**

**Course Instructor**

Madam Noor ulAin

**Group Members**

Abdullah Daoud……………………………………………………….(22I-2626)

Usman Ali……………………………………………………………(22I-2725)

Faizan Rasheed………………………………………………………..(22I-2734)

**Section**

SE-E

**Date**

**Friday, November 15, 2024**

**Fall 2024**



**Department of Software Engineering**

FAST – National University of Computer & Emerging Sciences

Islamabad Campus

Table of Contents

[1. Project Proposal 1](#_Toc182236251)

[2. Introduction 1](#_Toc182236252)

[3. Modules with Features 1](#_Toc182236253)

[(i). Attendee Module 1](#_Toc182236254)

[(ii). Organizer Module 2](#_Toc182236255)

[(iii). Admin Module 2](#_Toc182236256)

[(iv). Vendor & Sponsor Module 2](#_Toc182236257)

[4. Work Division 3](#_Toc182236258)

# 1. Project Proposal

**Project Title:** EventVerse - A Comprehensive Event Management System

**Objective:**  
The objective of EventVerse is to provide an all-in-one platform for managing various events, such as conferences, concerts, and corporate gatherings. It is a scalable, user-friendly solution that enables organizers to create and manage events, while attendees can register, book tickets, and engage with events seamlessly.

**Technologies Used:** MERN Stack (MongoDB, Express.js, React.js, Node.js)

# 2. Introduction

EventVerse is designed to bring together multiple user groups – attendees, organizers, vendors, and sponsors – facilitating interaction, ticketing, resource management, and feedback collection in an integrated platform. Inspired by platforms like Eventbrite, EventVerse will streamline event organization with features to manage various aspects of an event lifecycle from planning to post-event feedback.

This platform will support third-party integrations such as payment gateways and social logins to enhance usability, and will incorporate search and filter features to allow users to find and book events that match their interests.

# 3. Modules with Features

## (i). Attendee Module

* **User Registration & Login**: Secure user registration, capturing essential details like name, email, and event preferences.
* **Event Search & Booking**: Search events with filters (date, location, type) and book tickets.
* **Event Dashboard**: Track registered events, view schedules, and access event details.
* **Tickets & Check-In**: E-ticket download and QR-code-based check-in for ease of access.
* **Feedback & Ratings**: Provide feedback post-event, and view past interactions.
* **Profile Management**: Manage personal information and event preferences.

## (ii). Organizer Module

* **Registration & Event Creation**: Set up organizer profiles, create and manage events with details like title, description, and ticket types.
* **Ticket & Sales Management**: Create ticket categories, set pricing, and monitor availability.
* **Attendee Management**: Track attendee details, communicate directly, and respond to queries.
* **Resource & Vendor Management**: Manage vendors, assign resources (equipment, staff), and track resource allocation.
* **Event Analytics**: View metrics on ticket sales, attendee feedback, and event engagement.

## (iii). Admin Module

* **User & Organizer Management**: Approve and oversee accounts, monitor activities, and handle complaints.
* **Event Approval & Category Management**: Approve new events, manage categories, and organize them effectively.
* **Reports & Analytics**: Generate reports on event metrics, ticket sales, user engagement, and platform growth.
* **Feedback Moderation & Complaint Resolution**: Monitor user feedback for compliance and address disputes.

## (iv). Vendor & Sponsor Module

* **Registration & Profile Setup**: Secure registration with detailed business profiles.
* **Service & Sponsorship Bidding**: Vendors can bid for event contracts, and sponsors can engage with specific events.
* **Contract & Payment Management**: Track service contracts and payment statuses for transparency.

# 4. Work Division

Each group member will be assigned a primary interface to develop and maintain, including both front-end and back-end functionality as per Project Statement requirements.

1. **Abdullah Daoud (22I-2626)** - Attendee Module

* Responsible for implementing attendee registration, event search, booking, ticket management, and feedback submission features.
* Will develop both UI components in React and server-side API routes for CRUD operations using Node.js and MongoDB.

1. **Usman Ali (22I-2725)** - Organizer Module

* Focus on organizer functionalities such as event creation, ticketing, attendee tracking, and resource management.
* Will handle both the front-end UI for organizers and the back-end logic for event and ticket management.

1. **Faizan Rasheed (22I-2734)** - Admin & Vendor/Sponsor Module

* Responsible for user and organizer management, event approval, report generation, and sponsor/vendor interactions.
* Will implement UI elements and backend processes for managing user and vendor relations as well as analytics.