**Software Requirements**

**Specification**

**for**

**Event Management Portal**

**Version 1.0 approved**

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# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
|  |  |  |  |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

## The Event Management Portal is a web-based system designed to manage event planning and execution. It includes features such as event creation, ticket sales, registration, notifications, venue/resource management, and analytics.

## 1.2 Document Conventions

## All functional requirements are prefixed with "REQ-" followed by a unique number.

## Mandatory requirements are labeled "High Priority."

## 1.3 Intended Audience and Reading Suggestions

## This document is intended for developers, project managers, event organizers, system architects, and testers.

## 1.4 Product Scope

## The Event Management Portal will streamline event organization by providing an all-in-one solution for ticketing, attendee management, and logistics

## 1.5 References

# IEEE SRS Template

# Event Industry Standards

# 2. Overall Description

## 2.1 Product Perspective

## The portal will be a standalone application, integrating with third-party payment gateways and notification services.

## 2.2 Product Functions

## Event creation and management

## Ticket sales and payments

## Attendee registration and check-in

## Notifications and reminders

## Venue and resource allocation

## Analytics for organizers

## 2.3 User Classes and Characteristics

## Event Organizers: Create and manage events.

## Attendees: Register and purchase tickets.

## Admins: Monitor system operations.

## 2.4 Operating Environment

## Web-based system running on cloud infrastructure.

## Mobile-friendly UI

## 2.5 Design and Implementation Constraints

## Must integrate with popular payment gateways.

## High availability and scalability.

## 2.6 User Documentation

## . User manual and FAQs.

## 2.7 Assumptions and Dependencies

# Reliable internet connection is required.

# Third-party integrations must be available.

# 3. External Interface Requirements

## 3.1 User Interfaces

## Web dashboard for organizers.

## Mobile-friendly registration pages.

## 3.2 Hardware Interfaces

## Supports barcode/QR code scanners for check-in.

## 3.3 Software Interfaces

## API integration with payment processors.

## Email/SMS notification services.

## 3.4 Communications Interfaces

## Supports email, push notifications, and SMS.

# 4. System Features

## 4.1 Event Creation and Listing

# 4.1.1 Description and Priority

## Organizers can create and list events with descriptions and dates. (High Priority)

# 4.1.2 Functional Requirements

# 

## *.* REQ-1: Allow users to create an event with details.

## . REQ-2: Display event listings with filters.

# 

# 4.2 Ticket Sales and Payment Gateway Integration

## Secure ticket sales and payment processing.

# 4.3 Registration and Check-in Flow

## Online registration and on-site QR code check-in.

# 4.4 Notifications and Reminders

## Email/SMS alerts for registrations and updates.

# 4.5 Venue and Resource Allocation Management

## Assign venues and resources dynamically.

# 4.6 Analytics Dashboard for Organizers

## Provide insights on ticket sales, attendance, and revenue.

# 5. Other Nonfunctional Requirements

## 5.1 Performance Requirements

## Must handle 1000+ concurrent users.

## 5.2 Safety Requirements

## Backup and disaster recovery.

## 5.3 Security Requirements

## Data encryption and role-based access control.

## 5.4 Software Quality Attributes

## High availability and usability.

## 5.5 Business Rules

## Organizers must verify events before publishing.

# 

# 6. Other Requirements

## Support for multilingual UI.

# Appendix

## Appendix A: Glossary

## QR Code: Quick Response Code.

## Appendix B: Analysis Models

## To be determined.

## Appendix C: To Be Determined List

## TBD items will be addressed in future revisions.