SOFTWARE REQUIREMENT SPECIFICATION

EVENT MANAGEMENT

Name	MOUNEES KUMAR R
Roll no	7376221CS231
Seat no	**222**
Project id	**11**
Problem Statement	Event Management (Event requisition form with 8 Annexure)

TECHNICAL COMPONENT:

Component	**Tech Stack**
Frontend	● HTML ● CSS ● JS
Backend	● Python ● Django(Python Web)
Database	● PostgreSQL ● MySQL
API	● OpenAPI ● REST Ful API

IMPLEMENTATION TIMELINE:

Phase	Deadline	Status	Notes
Stage 1	**23/07/2024**	COMPLETED	Planning and requirement
Stage 2		IN PROGRESS	Design and Prototyping
Stage 3		Not Started	DB Designing
Stage 4		Not Started	Backend Implementation
Stage 5		Not Started	Testing & Implementation
Stage 6		Not Started	Deployment

1. INTRODUCTION:

1.1 Purpose

The purpose of this SRS document is to provide a detailed description of the requirements for the Event Management System (EMS). The EMS will automate event planning, scheduling, and management, ensuring a streamlined workflow for event organizers.

1.2 Scope of the Project

The EMS will be a web-based application for managing events. It will handle event creation, participant registration, guest management, and logistical requirements. It will also provide features for generating reports and notifications.

2. Overall Description

2.1 Product Perspective

The EMS will be a standalone web application integrating with the organization’s IT infrastructure. It will support multi-user access with role-based permissions.

2.2 Product Functions

- Event creation and management
- Participant registration (internal and external)
- Guest management and invitations
- Resource management (venue, vehicles, accommodation, audio, photography, accessories)
- Report generation and data export
- Notifications and reminders via email/SMS

2.3 User Classes and Characteristics

- Event Organizer: Creates and manages events.
- Admin: Manages user roles and permissions.
- Guest: Special invitees with specific information provided during event creation.

2.4 Operating Environment

The system will be web-based, accessible through modern web browsers (Chrome, Firefox, Safari, Edge) on desktop and mobile devices.

2.5 Design and Implementation Constraints

- Compliance with organizational security policies
- Scalability to handle multiple concurrent events and users
- Secure data storage with regular backups

2.6 User Documentation

- User Manual
- Admin Guide
- Quick Start Guide

2.7 Assumptions and Dependencies

- Users have basic internet browsing skills
- System will be hosted on the organization’s servers or a trusted cloud provider

3. System Features

3.1 Event Management

3.1.1 Description and Priority

Allows organizers to create, edit, and manage events. High priority as it is the core function of the system.

3.1.2 Functional Requirements

- FR1: Create events with details such as name, date, time, organizer information, and number of participants.
- FR2: Support event duration from start to end date and time.
- FR3: Capture event requirements like vehicle, accommodation, venue, audio, photography, accessories, financial, and reward points.
- FR4: Generate a unique event ID for each event.

3.2 Participant Management

3.2.1 Description and Priority

Allows participants to register for events. Medium priority to ensure smooth participant handling.

3.2.2 Functional Requirements

- FR5: Allow internal and external participants to register for events.
- FR6: Capture participant details such as name, email, contact number, and affiliation.
- FR7: Validate participant registration and prevent duplicate entries.

3.3 Guest Management

3.3.1 Description and Priority

Allows organizers to manage guest information. High priority to handle special invitees.

3.3.2 Functional Requirements

- FR8: Add guest details including name, designation, and organization.
- FR9: Specify the number of guests and their roles (Mr./Ms./Dr./Prof.).

3.4 Resource Management

3.4.1 Description and Priority

Manages resources required for the event. Medium priority to ensure proper logistical support.

3.4.2 Functional Requirements

- FR10: Specify resource requirements (vehicles, accommodation, venue, audio, photography, accessories).
- FR11: Generate and manage annexures for detailed resource specifications.

3.5 Reporting and Notifications

3.5.1 Description and Priority

Generates reports and sends notifications. High priority for effective communication and documentation.

3.5.2 Functional Requirements

- FR12: Generate event summary reports including participant and guest details.
- FR13: Send email/SMS notifications to participants and guests about event details and updates.

4. External Interface Requirements

4.1 User Interfaces

- Web-based UI with forms for event creation, participant registration, and guest management.
- Dashboard for organizers to manage and monitor events.
- Reports section for generating and viewing reports.

4.2 Hardware Interfaces

- Standard web access devices (PCs, tablets, smartphones).

4.3 Software Interfaces

- Integration with email/SMS gateways for notifications.
- Database systems for storing event data (e.g., MySQL, PostgreSQL).

4.4 Communications Interfaces

- HTTPS for secure data transmission.
- RESTful APIs for external integrations if needed.

5. Other Non-Functional Requirements

5.1 Performance Requirements

- Handle up to 1000 concurrent users without performance degradation.
- Response time for user actions should be less than 2 seconds.

5.2 Safety Requirements

- Data encryption for sensitive information.
- Regular backups to prevent data loss.

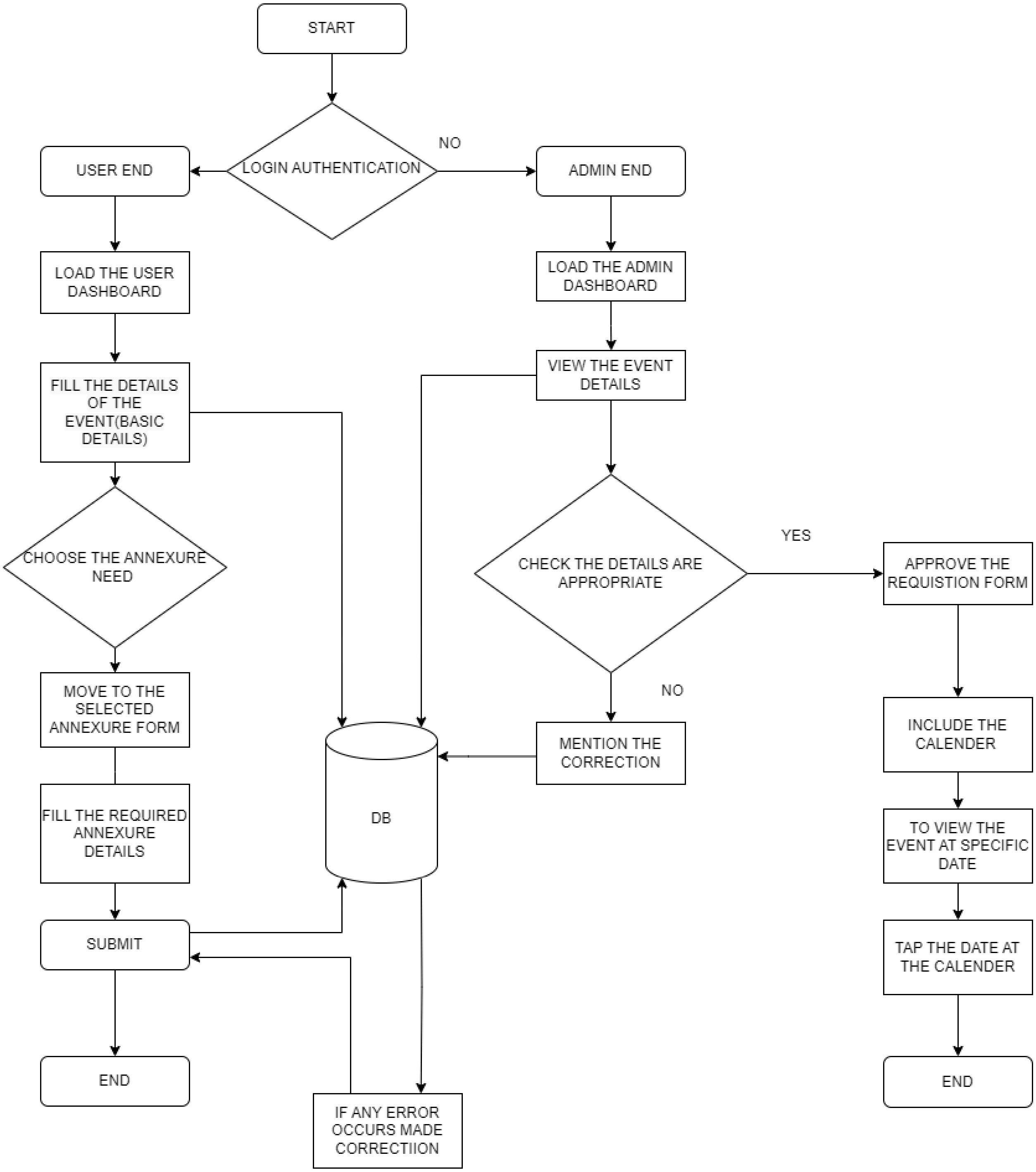
5.3 Security Requirements

- Role-based access control to ensure appropriate permissions.
- Secure login mechanisms (e.g., multi-factor authentication).

5.4 Software Quality Attributes

- Usability: Intuitive UI design for ease of use.
- Reliability: High uptime with minimal downtime for maintenance.
- Scalability: Ability to scale resources based on user load.
- Maintainability: Modular codebase for easy updates and maintenance.

5. FLOWCHART :


START
LOGIN AUTHENTICATION
NO
USER END
ADMIN END
LOAD THE USER DASHBOARD
LOAD THE ADMIN DASHBOARD
FILL THE DETAILS OF THE EVENT(BASIC DETAILS)
VIEW THE EVENT DETAILS
CHOOSE THE ANNEXURE NEED
CHECK THE DETAILS ARE APPROPRIATE
YES
APPROVE THE REQUISTION FORM
NO
MOVE TO THE SELECTED ANNEXURE FORM
DB
MENTION THE CORRECTION
INCLUDE THE CALENDER
FILL THE REQUIRED ANNEXURE DETAILS
TO VIEW THE EVENT AT SPECIFIC DATE
SUBMIT
TAP THE DATE AT THE CALENDER
END
END
IF ANY ERROR OCCURS MADE CORRECTIION