Software Requirement Specification for External Events Management Portal

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Problem Statement	External Events Management Portal

Technical Component:

Component	Tech Stack
Frontend	Angular/React js
Backend	Spring Boot using Java
Database	MySQL/PostgreSQL
API	OpenAPI/RESTFul API/SOAP API

Implementation Timeline:

Phase	Deadline	Status	Notes
Stage 1	4/05/2024	Approved ⌄	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

1. Introduction

1.1. Purpose:

The purpose of this document is to present a detailed description of the External Event Management portal. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli.

1.2. Scope of Project:

The scope of this project encompasses the development of an External Event Management Portal that includes two modules one for Event Request and Approval and another for Internal Review Assessment (IRA) .

The portal allows users to apply for external events and undergo a review process to determine event acceptance.And the response mail will be sent to the applicant if the event was approved the response mail will also be sent to the event management team and the admin can add the event to the bip portal. Additionally, users can participate in the IA test for the specific event for event eligibility. If the student fails to clear the test he will not be able to attend the event if he clears the event he can attend the event . Admins can create, edit, and close events, review applications, set IRA criteria and exam dates.

2 System Overview:
2.1 Users:

1 Student:

Empowering Event Participation: As a user, this portal simplifies your journey to external events. Submit detailed applications of the event , and complete Internal Review

Assessment (IRA) assessments to determine eligibility. The system keeps you informed with email updates on your application's approval status.

2 Admin:

Streamlined Event Management: Administrators hold the reins on the approval process. Create, edit, and close events to maintain organization. Review applications based on details, Internal Review Assessment (IRA) results, and set criteria. Grant or deny access with the power to approve or reject. You can also define Internal Review Assessment (IRA) parameters and exam dates, and potentially integrate approved events with the BIP portal .

2.2 Features:

The features of the External Event Management Portal include:

1 User Registration and Authentication:

Users can login through a google account and log in securely Or the user can enter the username and the password.

2 Event Application:

Users can apply for external events by submitting an application form.

3 Application Tracking:

Users can track the status of their application, including whether it has been processed or not processed.

4 Event Review:

Admins can review applications and decide whether to accept or reject the event and then give the remark about the event.The event reviewer was allotted by the domain of the event.

5 Notification System:

Users receive notifications regarding the status of their application with the remark if the event is approved the remark is the event is approved if the event is not approved the remark does not satisfy the criteria of the college.

6 Event Management:

Admins can create, edit, and manage events, including details such as dates, locations, and registration requirements.

7 Internal Review Assessment (IRA):

Users can participate in the IRA for event eligibility, including filling out a Form and attending an interview.

8 Reporting and Analytics:

Admins have access to reports and analytics on event participation, application trends, and IRA outcomes.

9 User Management:

Admins can manage user accounts, track application statuses, and communicate with users.

3.1 Functional Requirements:

Module 1: Event Request and Approval:

1 User Application:

- Users can submit event applications through the portal.
- The application form should capture details like event name, location and dates.

2 Administrator Review:

- Administrators can view a list of submitted event applications.
- The system displays application details, IRA results (if applicable).
- Administrators can review applications based on pre-defined criteria (e.g., event type, category, IRA results).
- The system facilitates approving or rejecting applications.

3 Automated Notifications:

- Upon application submission, the system should send an email notification to the applicant acknowledging receipt.
- The system should automatically send email notifications to applicants informing them of the approval/rejection decision.
- Optionally, the system can send notifications to the event management team upon event approval.

Module 2: Internal Review Assessment (IRA):

1 User Participation:

- **Eligibility Check:** Users interested in attending events that require IRA must first check if they meet the eligibility criteria, such as personalized skill levels or qualifications.

- **Application Submission:** Eligible users fill out an IRA application form, providing details such as their name, contact information, and reasons for attending the event.
- **Event Eligibility:** Based on the IRA interview outcome, the user is deemed eligible or ineligible to attend the event.

2 Administrator Management:

- **Review Process:** Admins review the IRA applications and assess if the user meets the criteria for attending the IRA.
- **IRA Interview Scheduling:** If the user is eligible, they are scheduled for an IRA interview, which may include a mark submission and an interview with faculty members.
- **Interview Outcome:** After the interview, the faculty members enter the interview marks into the system. The user does not have access to their marks, which are visible only to administrators.

3.2 Non-Functional Requirements :

Usability:

- **User-friendly interface:** The portal should be intuitive and easy to navigate for all user types (applicants, administrators).
- **Responsive design:** The portal should render well and be functional across different devices (desktops, laptops, tablets, smartphones).
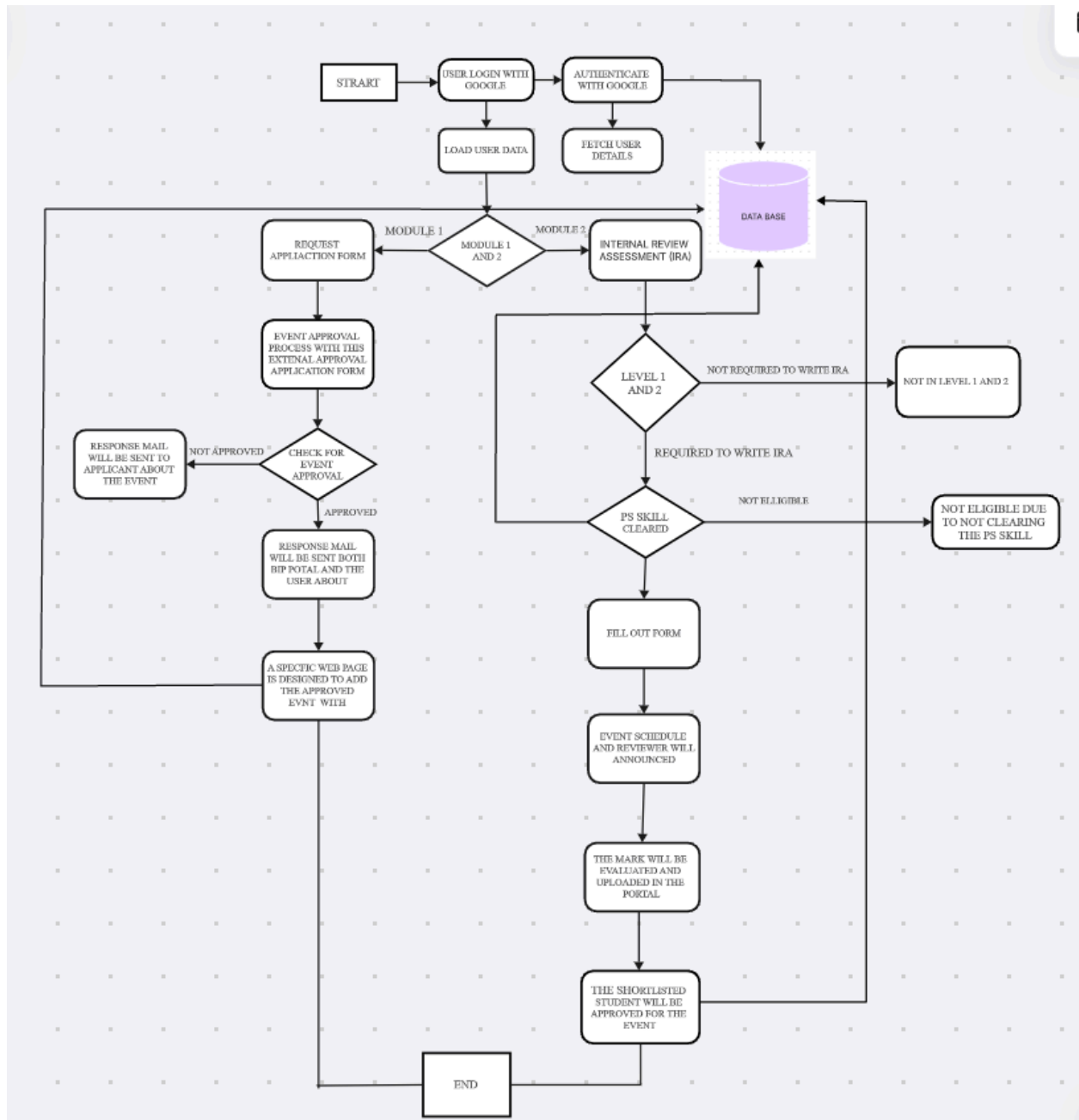
Performance:

- **Fast loading times:** The system should ensure quick response times for application submissions, reviews, and overall system access.
- **Scalability:** The portal should be able to accommodate a growing number of users, event applications, and data storage needs over time.

Security:

- **User authentication and authorization:** The system should implement secure methods for user login and restrict access based on user roles (applicants, administrators).
- **Access Control:** Implement strict access controls to ensure that only authorized users (@bitsathy.ac.in) have access to sensitive data and functionalities.

4 Flowchart:

Login Page:

Sign Up

👤 Name

✉ Email id

🔒 Password

Sign Up   Login

Login

✉ Email id

🔒 Password

Forgot Password? Click here!

Sign Up   Login