



**STUDENT NAME : SARANYA E**

**SEAT NUMBER : 36**

**PROJECT ID : 36**

**PROJECT TITLE : EXTERNAL TECHNICAL EVENT  
PORTAL**

#### **TECHNICAL COMPONENTS**

<b>Component</b>	<b>Tech Stack</b>
Frontend	React
Backend	Node.js with Express.js
Database	MongoDB(NOSQL Database)
API	Open API

#### **PROBLEM STATEMENT**

**TRACKING STUDENT PARTICIPATION IN EVENT :** The app needs to track and record the students participation in external events. This involves monitoring when the students attended the events and the time period of their stay. The goal is to provide administrators with accurate data on student participation.

**VERIFYING THE CERTIFICATE ORIGINALITY :** The objective of this problem is to prevent the submission of fake certificates and maintain the integrity of the certification processes in BIP. The certificate originality verification feature within event tracker provides secure and reliable method to authenticate certificates submitted by students.

## **PROJECT-FLOW:**

### **Purpose:**

The project aims to provide a centralized platform for educational institutions to track the student participation in various external events.

### **Scope:**

This system includes universities as the primary users of the app. Students who participate in events can submit their certificates for verification. The scope of the project encompasses the development of a software solution to the need of educational institutions.

## **SYSTEM OVERVIEW**

**1.STUDENT :** A student inputs their information and creates an account. The student data is stored in the database and the account is validated by the system. Students view the specifics of events that are offered. After deciding on an event, the student registers. Administrators can control event specifics.

**2.EVENT MANAGER :** The Event Manager system serves as a tool for administering the student participation in various events, as well as ensuring the authenticity of certificates submitted to the BIP portal.

## **DEPENDENCIES :**

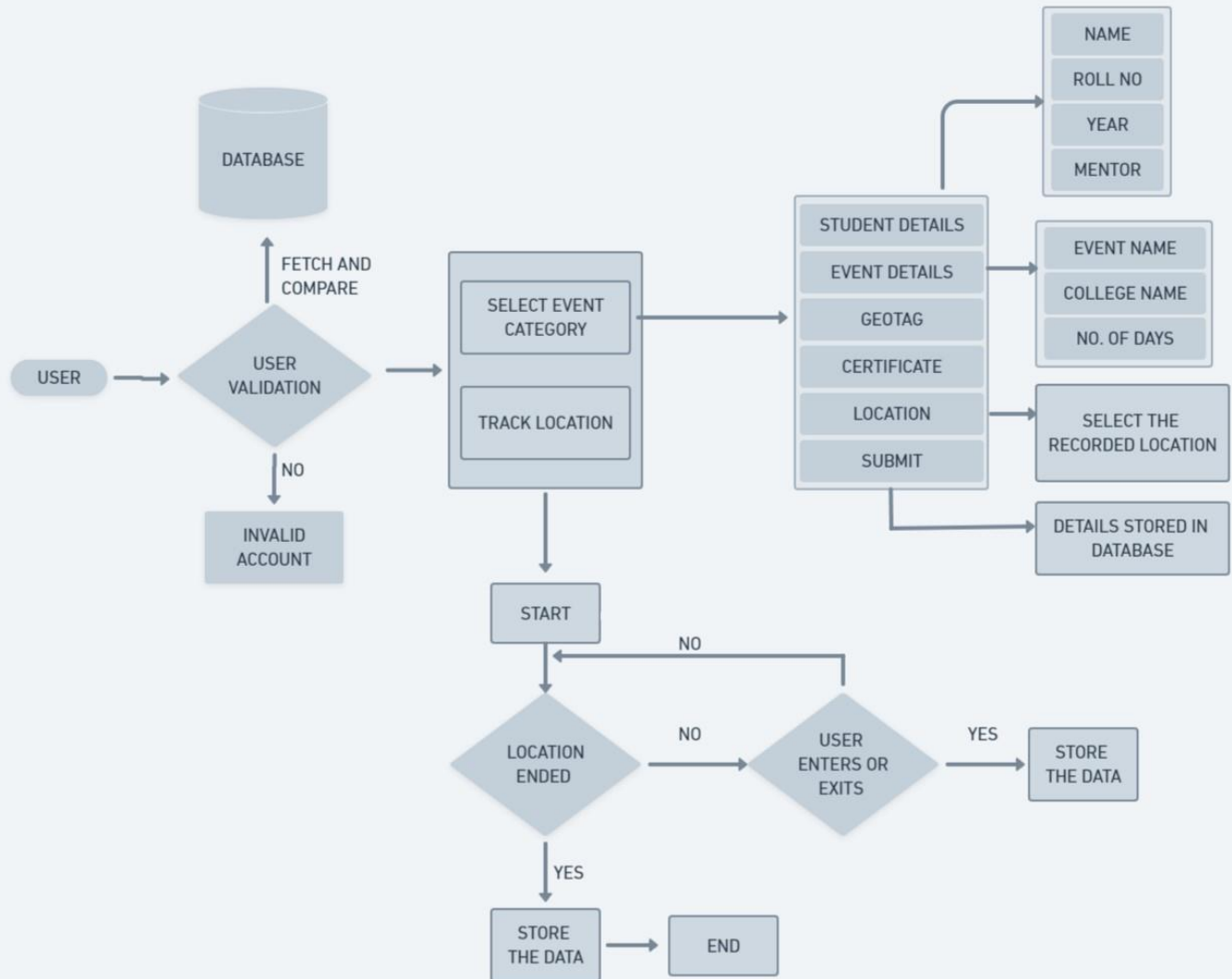
- The Event Manager system relies heavily on a DBMS to store and manage vast amounts of data related to events, student registrations, and certificate verification records.
- The DBMS ensures the data integrity, reliability, and scalability to support the event management and certificate authentication processes.

## **USER PERSON :**

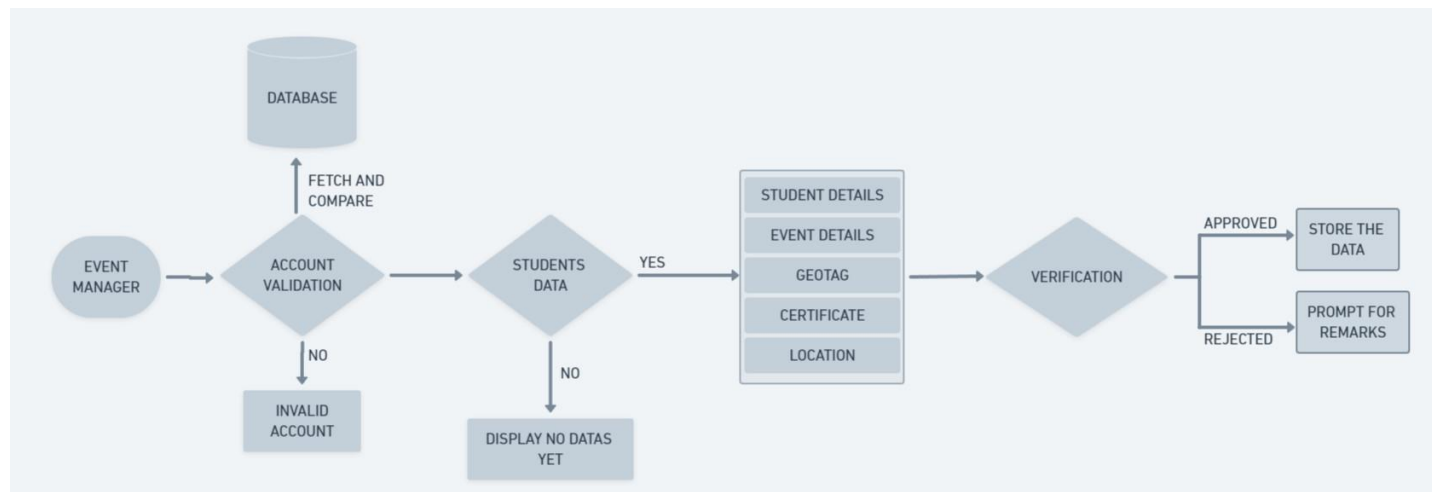
- **Student:** Students can create accounts and provide their details. Upon successful validation, their information is stored in the database
- **Event Manager:** Event Managers ensures the originality of the certificate and proceeds for further approval or rejection.
- **Admin :** Manages system operations and resolves conflicts.

## FLOW CHART :

### 1.STUDENTS INTERFACE :



## 2.EVENT MANAGERS INTERFACE :



## FUNCTIONAL REQUIREMENTS :

- **User Authentication:** Secure single sign in page.
- **Participant Tracking:** The app tracks the student participation in registered events.
- **Certificate Submission:** Students should submit the certificates through the app. The app allows the students to upload certificates, geotag image and tracked location.
- **Verification:** The app verifies the originality of the submitted certificates.

## NON-FUNCTIONAL REQUIREMENTS :

- **Security:** The app implements encryption mechanisms to secure data transmission and storage.
- **Performance:** The app accommodates large number of users and concurrent event registrations.
- **Reliability:** The app undergoes testing to identify and resolve any issues or bugs before deployment.
- **Accessibility:** The system supports web platforms which is accessible from different location.

