PROJECT WORK FLOW

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Seat no	196
Project ID	36
Problem Statement	External Technical Events Portal

1. Introduction

1.1 Purpose:

This document outlines the specifications for the development of the External Technical Events App. The primary objective of the app is to enable real-time tracking of students' attendance at external technical events through location-based authentication upon login, while also encompassing previously defined features for event submission, verification, and tracking.

1.2 Scope of Project:

The External Technical Events App aims to provide a holistic solution for students to engage with external technical events. It encompasses features for event discovery, submission, verification, tracking, and now, real-time attendance authentication through location tracking upon login.

2. System Overview

2.1 Users:

1. Students: The primary users of the app, who will utilize it for event discovery, submission, verification, attendance tracking, and authentication.

2. Administrators: Secondary users responsible for managing event data, reviewing submissions, and monitoring attendance records.

2.2 Features:

1. Location-Based Authentication: Upon login, students' locations will be tracked in real-time to verify their attendance at external technical events.

2. Event Discovery: Students can explore a catalog of external technical events, including event details such as name, description, date, and location.

3. Event Submission: Students can submit proofs of their participation in external technical events, including certificates and Geotag images.

4. Verification Status: Students can track the status of their event submissions, including approval or rejection status and accompanying remarks.

5. Event Attendance Tracking: The app will maintain attendance records based on students' location data, providing administrators with accurate attendance information.

6. User Authentication: Secure authentication mechanisms will be implemented to ensure that only authorized students can access the app and authenticate their attendance.

7. Event Management: Administrators will have access to manage event data, including event details and attendance records, through a user-friendly interface.

8. Notifications: The app may include push notifications to remind students to authenticate their attendance and to provide event updates.
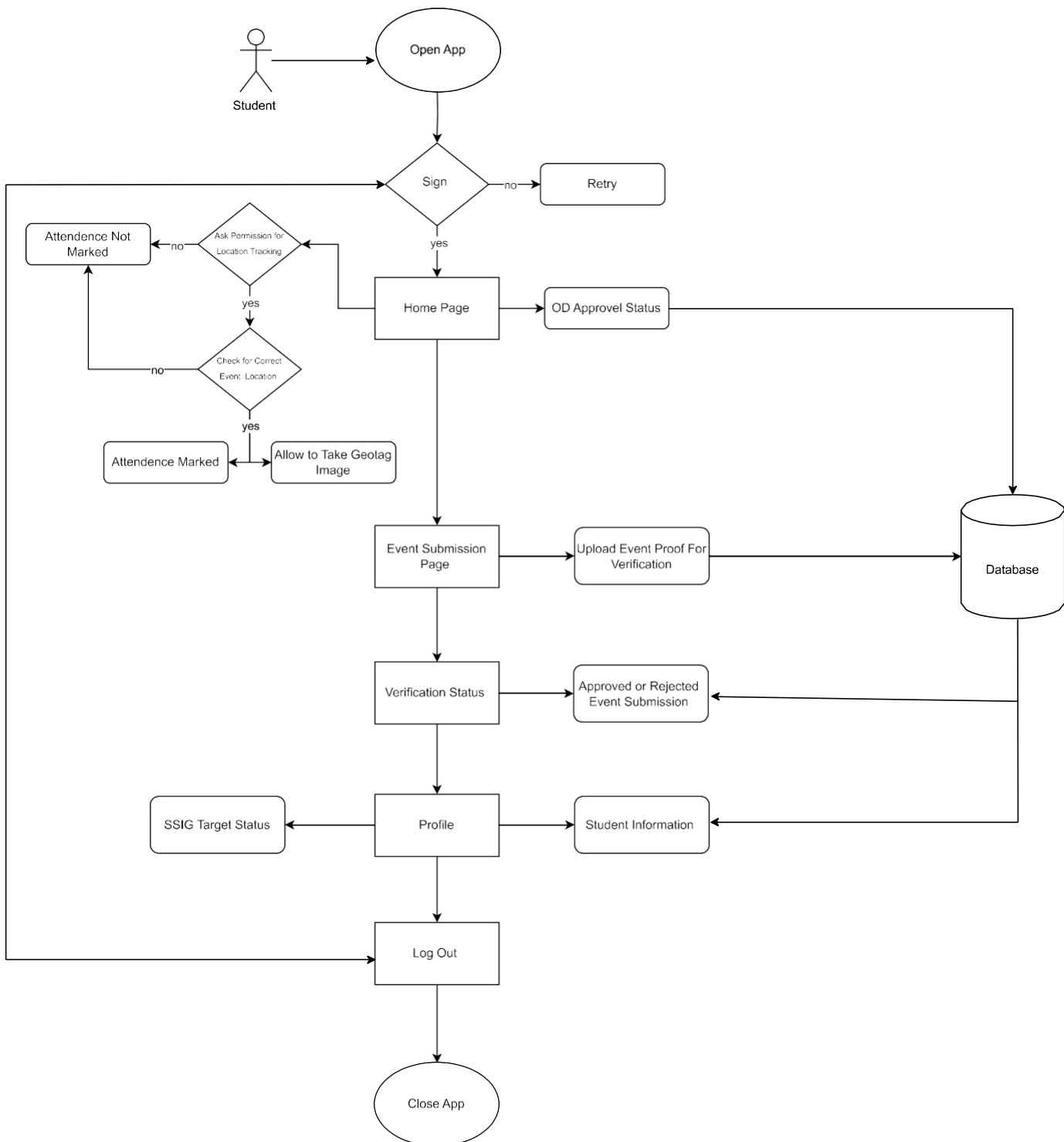
3.Technology Stack:

- **Frontend:** Flutter for cross-platform mobile app development.

- **Backend:** Firebase for cloud-based services, including authentication and database.

- **Geolocation Services:** Google Maps API or similar for accurate location tracking.

- **Push Notifications:** Firebase Cloud Messaging or similar for sending push notifications.

4.Conclusion:

The External Technical Events App will provide a comprehensive solution for students to engage with external technical events. By integrating features for event discovery, submission, verification, tracking, and real-time attendance authentication through location tracking upon login, the app will enhance students' participation experiences while streamlining administrative tasks for event management.

Flow Chart for User:

Student → Open App

Open App → Sign

Sign → no → Retry

Sign → yes → Home Page

Home Page → Ask Permission for Location Tracking

Ask Permission for Location Tracking → no → Attendence Not Marked

Ask Permission for Location Tracking → yes → Check for Correct Event Location

Check for Correct Event Location → no → Attendence Not Marked

Check for Correct Event Location → yes → Attendence Marked

Allow to Take Geotag Image → Attendence Marked

Home Page → OD Approvel Status

OD Approvel Status → Database

Event Submission Page → Upload Event Proof For Verification → Database

Event Submission Page → Verification Status

Verification Status → Approved or Rejected Event Submission → Database

Profile → SSIG Target Status

Profile → Student Information → Database

Profile → Log Out

Log Out → Close App

Design Overview:

👋 **Welcome Back !**

OD Approval Status	
Name	Sri Vishnu B
From Date	10-04-2024
From Time	12:00:00 Am
To Date	24-04-2024
To Time	19:35:00 Pm
Status	Approved

Location Details

Enter Event id : BIT231

To ensure accurate attendance verification, we require permission to track your location during external technical events.

By enabling location tracking, you help us enhance event security and provide a better experience for all attendees.

Deny   **Allow**

📍 BIT Sathymangalam,TamilNadu
11.504776° N, 77.238396° E.

GeoTag :

📷 7376222cb154_Event_out.png

Name:

Sri Vishnu B & 7376222CB154

Special Lab & Id:

Cyber Security & SLB010

Event ID:

BIT2024IT1

Event Name:

Google all India Hackathon 2024,Mumbai

Status:

Paricipated

In Geotag:

7376222CB154_Event_in.png

Out Geotag:

7376222CB154_Event_out.png

Certificate:

Hackathon Certificate.pdf

Clear All   Submit

Approved Events

ID	Event Details	Reward Points	status
1	Sastra Hackathon,Sastra University,Chennai	yes	Approved
2	Sastra Hackathon,Sastra University,Chennai	yes	Rejected
3	Sastra Hackathon,Sastra University,Chennai	No	Approved

Event Approval Status

Name:

Sri Vishnu B & 7376222CB154

Special Lab & Id:

Cyber Security & SLB010

Event ID:

BIT2024IT1

Event Name:

Google all India Hackathon 2024,Mumbai

Status:

Paricipated

Certificate:

Hackathon Certificate.pdf
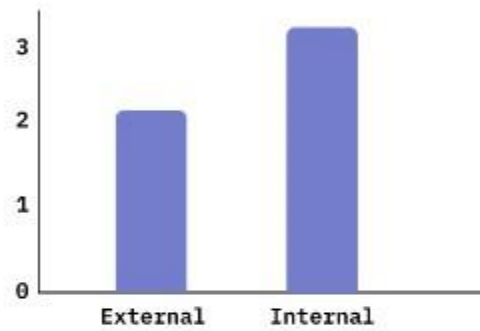
Remarks:

Nil

Status: Approved

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RollNo : 7376222CB154

Lab : Cyber Security Lab

Year : II

Students Dashboard

No Of Events Attended

External	Internal

SSIG Target Status

76%

Log OUt