BANNARI AMMAN INSTITUTE OF TECHNOLOGY
An Autonomous Institution Affiliated to Anna University - Chennai, Accredited by NAAC with A+ Grade
Sathyamangalam - 638401 Erode District, Tamil Nadu, India

IIC DATA MANAGEMENT WEBSITE

SOFTWARE REQUIREMENT SPECIFICATION

NAME: PRETHIKA B

ROLL NO: 7376221CS267

SEAT NO: 72

PROJECT ID: 32

PROJECT NAME: IIC DATA MANAGEMENT

TECHNICAL COMPONENTS:

Component	Teck Stack
Frontend	React
Backend	Node.js
Database	Mongo DB
API	Open API

PROJECT-FLOW:

1. Purpose:

The purpose of this document is to provide requirements for the development of an Institution's Innovation Council Data Management System (IICDMS). The System aims to streamline and automate the management of Workshops, Training programs, Competitions, Awareness and Outreach programs, club activities organized by the institute.

2. Scope:

The system will manage, organize and schedule events, workshops, and seminars submitted by faculties and Club in-charges. The system will handle resource allocation, event registration, and communication, keeping stakeholders informed about events and updates. It will generate reports and analytics to measure events conducted and outcomes, aiding in continuous improvement.

3. System Overview:

3.1. Users:

1. Faculties/Club In-charges:

They can submit applications for the organized event, upload required documents and links, track the status of their application, get notifications, and look back at their previous activities.

2. Admin:

They are able to schedule the events, with the exception of self-driven activities, approve or reject applications with remarks, and examine the project's statistics dashboard.

3.2. Features:

1. Login:

Faculties, Club In-charges and Admins can login with their existing BIT Account.

2. Activity Submission:

Users can input relevant event details regarding the activity organized including Event Name and Date (including time), Number of participants including Faculties and students (both internal and external), amount spent, objectives, outcomes and the brochure of the event. Upon completion, the activity is submitted to the admin interface for review and further processing.

3. Activity Status:

Users can view the current status of their activity as approved or rejected.

4. Admin Access:

Admin can view all the submitted activities, view event details, approve or reject the activity with suitable remarks.
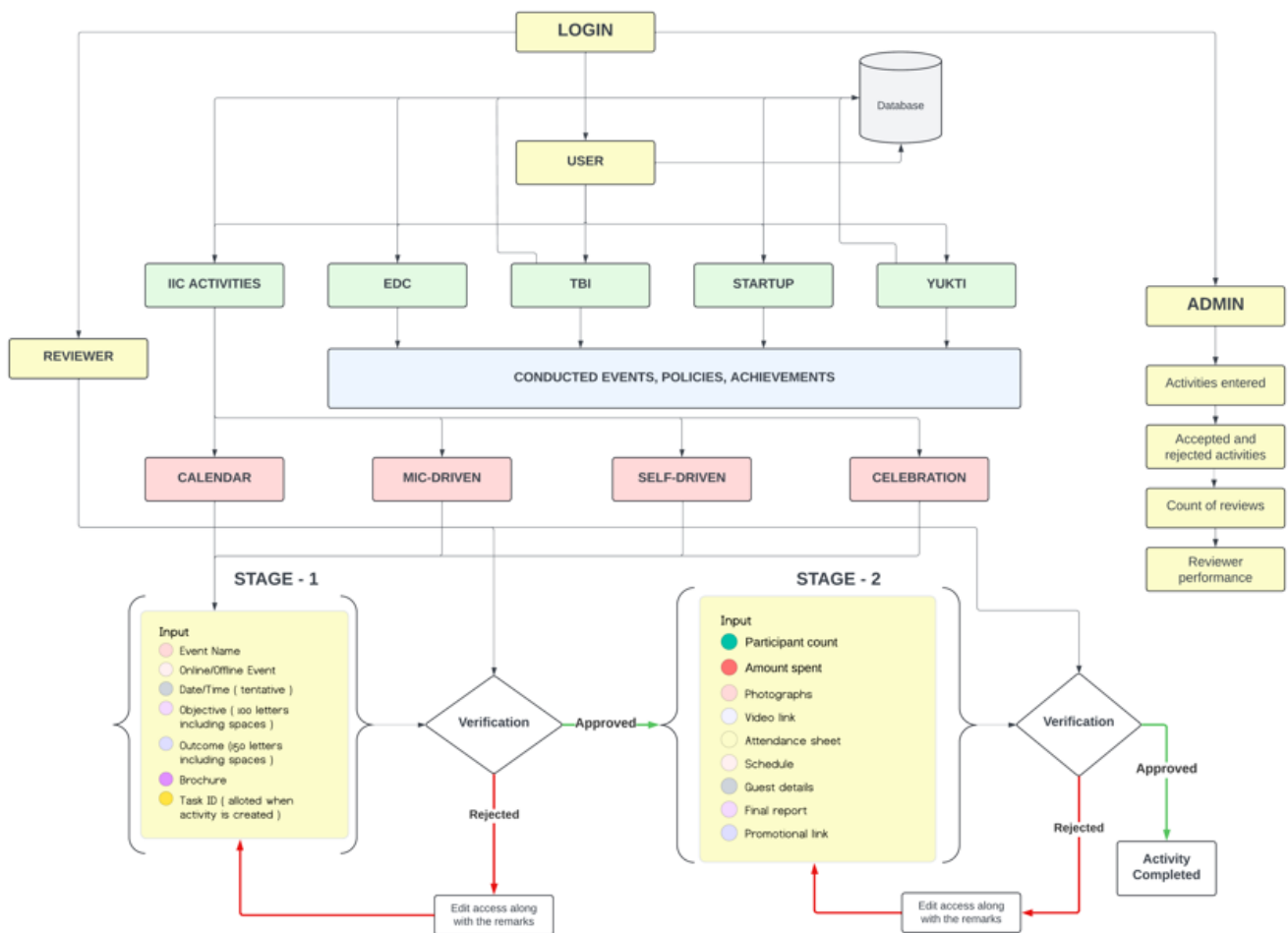
5. Admin's Statistics Dashboard:

Admin can view the number of activities and approved activities under different categories.

ENTITY RELATIONSHIP DIAGRAM
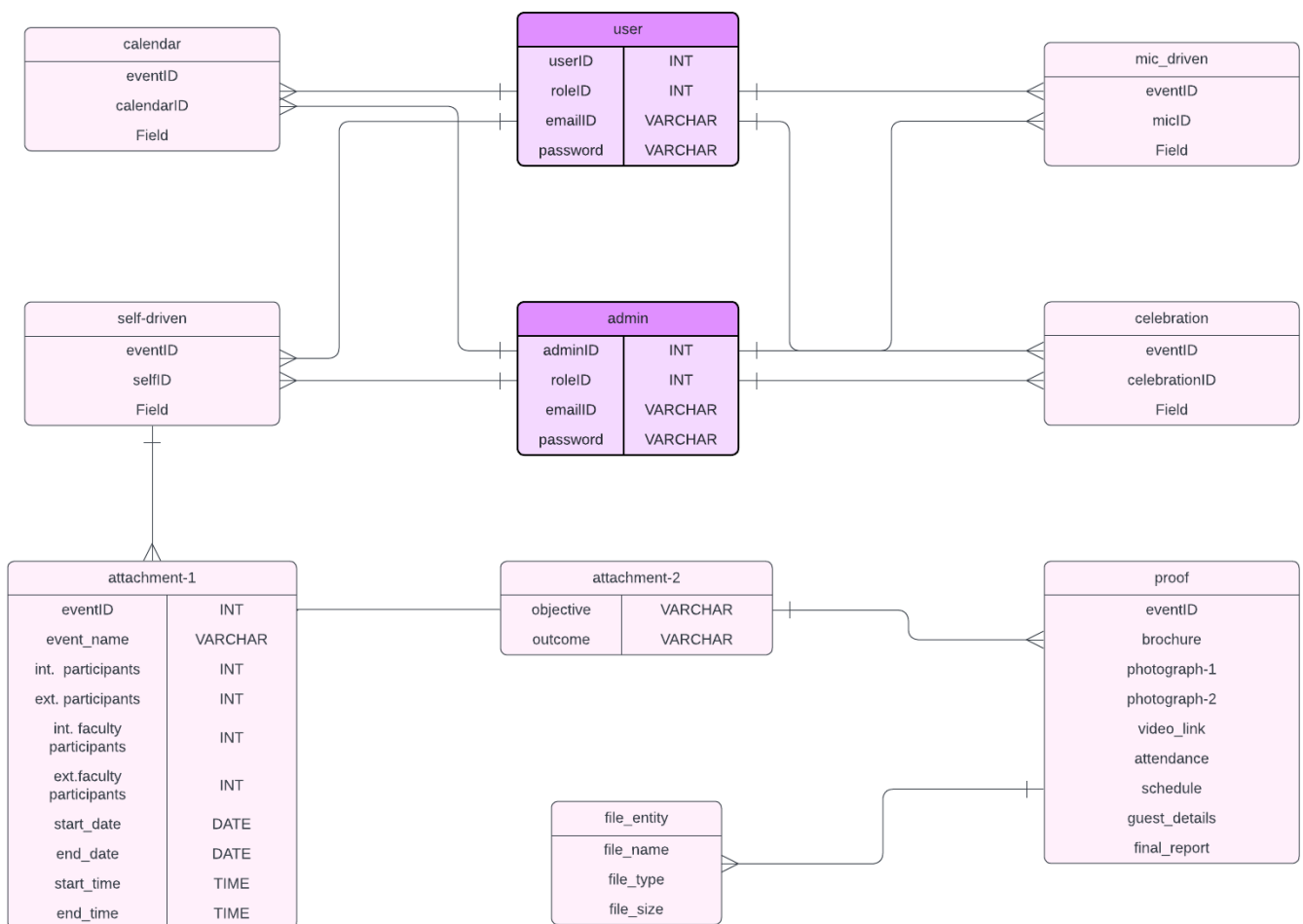
FLOW-CHART:

4. Functional Requirements:

4.1. User Management:

○ Faculties, Club In-charges and Admins can login using their google account.

○ Admins have access control with a statistical dashboard and dedicated features.

4.2. Activity Submission (Stage-1):

○Users can submit applications with appropriate details

○ Application form contains:

- Name of the Event
- Date, Time, Mode of participation
- Number of students and faculties involved
- Brochure for the event

4.3. Activity Status:

○ Users can view the current status of their application.

○ Admin verifies the application and either approve or reject it. If the application is rejected then the remarks is shown.

○ Users can also view their past completed activities.

4.4. Proof Validation (After Approval):

Once the Stage-1 is approved, then the User is notified to enter the documents which confirms the validity of the activity.

The Documents required and their constraints are

1. Photographs 1 (less than 2 MB):

Offline: Any proof for the conduction of the event such as guest speech photos, banner images etc…

Online: Guest speech photos, brochure etc…

2. Photograph 2 (less than 2 MB):

Offline: Guests and Participants photographs.

Online: Collage of photos if the event conducted via google meet, zoom etc…

3. Video Link:

The video must be live broadcasted either in Facebook or Twitter and it must be greater than 2 minutes.

4. Additional Reports:

Attendance Sheet, Schedule and Guest details must be present in pdf format (less than 2 MB.

5.Final Report:

The final report must be composed of all the details, documents and links entered the User (less than 2 by MB).

4.5. Admin Dashboard:

○ Admins can view a list of all submitted activities.

○ Applications can be filtered by the 4 categories (Calendar, MIC-driven, Self-driven, Celebration).

○ Admins can view details of each individual activity.

○ Admins can approve or reject activity with suitable remarks.

5. Non – Functional Requirements:

● Performance: The System must respond to user actions within 2 seconds to ensure efficient usability and must handle a concurrent user load of at least 100 users without significant performance degradation.

● Security: User data must be encrypted during transmission and storage, and access to sensitive functionalities should be restricted to authorized admin users through secure authentication mechanisms.

● Usability: The user interface should be intuitive and user-friendly, with clear and concise error messages provided to guide users in case of input errors or system failures.

● Reliability: The system should be available 24/7 with minimal downtime and should have a backup and recovery mechanism in place to prevent data loss in case of system failures or crashes.

● Scalability: The system should be designed to accommodate an increasing number of users and data volume over time, and it should be scalable to support additional features and functionalities as per future requirements.