

# Software Requirement Specification for TAC Portal

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**Project ID:** 53

**Tech Stack:** MEVN

## 1. Introduction

### 1.1. Purpose:

The purpose of this document is to present a detailed description of the Tac 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:

- This software system will serve as a portal for the Technical Approval Committee (TAC), enabling students to submit their projects and receive their rewards. From an administrative perspective, this system will provide a comprehensive **analytical dashboard for project oversight**.
- Administrators have the ability to approve or reject projects. Once a project is approved, students can schedule an appointment using their accepted PTAC ID. The system will calculate the number of days between the approval date and the current date. If this duration is less than 30 days, a

warning will be displayed indicating that students can claim only 30% of their rewards, which is contingent on the number of days since approval.

## **2. System Overview:**

### **2.1. Users:**

#### **1. Students:**

They have the ability to submit applications for TAC approval, upload relevant project documents, monitor the status of their application, schedule appointments following approval, and review their TAC interaction history.

#### **2. Admins:**

Review submitted TAC applications, approve or reject applications (with remarks), manage appointments, schedule meetings, and access analytical dashboards for project oversight

### **2.2. Features:**

#### **1. Login and registration:**

Students can register for an account or login with their existing account

#### **2. TAC Application Submission:**

Students can input relevant details regarding their project application including project title, description, objectives, and any necessary attachments. Upon completion, the application is submitted to the admin interface for review and further processing

#### **3. Application Status:**

Students can view the current status of their application and also see the history logs in the option Activity

#### 4. Appointment Booking:

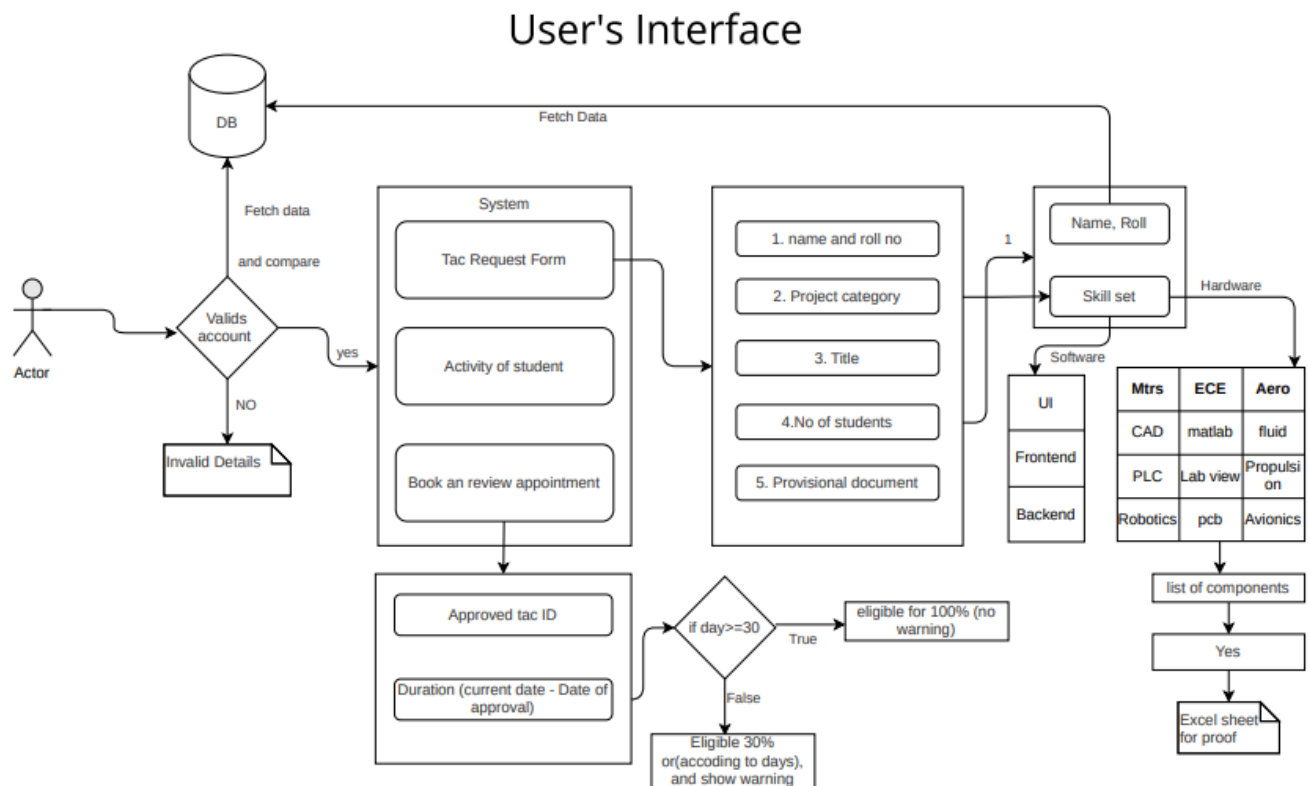
Student with approved TAC ID can request for Project review after completion of 30 days

#### 5. Admin Access:

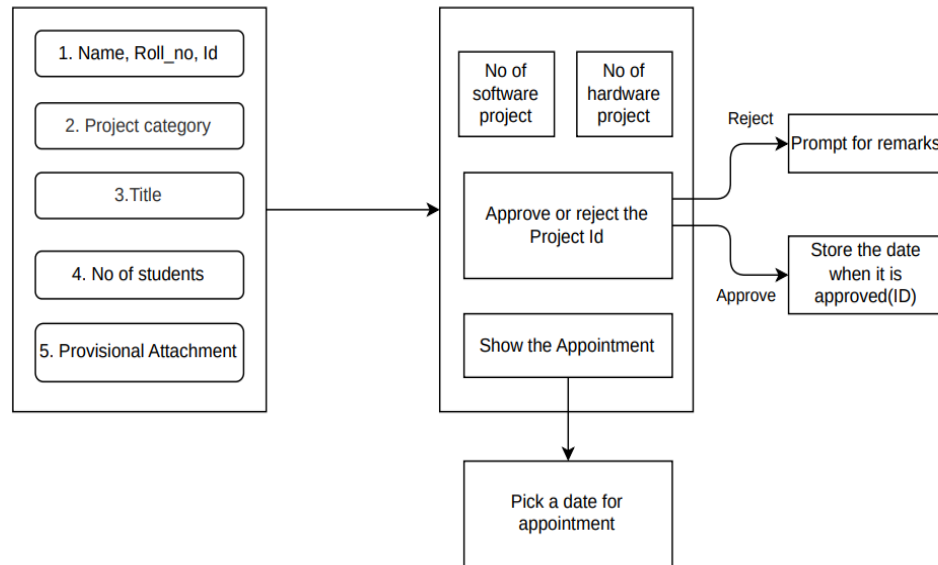
Admin can view all submitted TAC applications in a category of either software or hardware, view application details, approve or reject the application with suitable remarks, schedule meetings.

#### 6. Admin's Analytical Dashboard:

Admin can view the number of applications by category, appointments request and also see the latest log of applications



## Admin's Interface



### 3. System Requirements Specification:

#### 3.1 Functional Requirements:

- **User Management:**
  - Students can register and login.
  - Admins have access control with an analytical dashboard and dedicated features .
- **TAC Application:**
  - Students can submit applications with appropriate details
  - Application form contains:
    - Title of Project
    - Category of the project
    - Number of students involved
    - Provisional document attachment

- **Application Status:**

- Students can view the current status of their application
- If the application is rejected then the remarks is shown
- Students can also see the logs of their applications

- **Appointment Scheduling (After Approval):**

- Students with approved TACs can request appointments after completion of 30 days

- **Admin Dashboard:**

- Admins can view a list of all submitted TAC applications.
- Applications can be filtered by category (software, hardware).
- Admins can view details of each application.
- Admins can approve or reject applications with suitable remarks.
- Admins can schedule meetings for accepted appointments.

- **Analytics Dashboard:**

- Admin can view the number of applications by its category
- Number of appointments is requested based on the category

### **3.2. Non-Functional Requirements:**

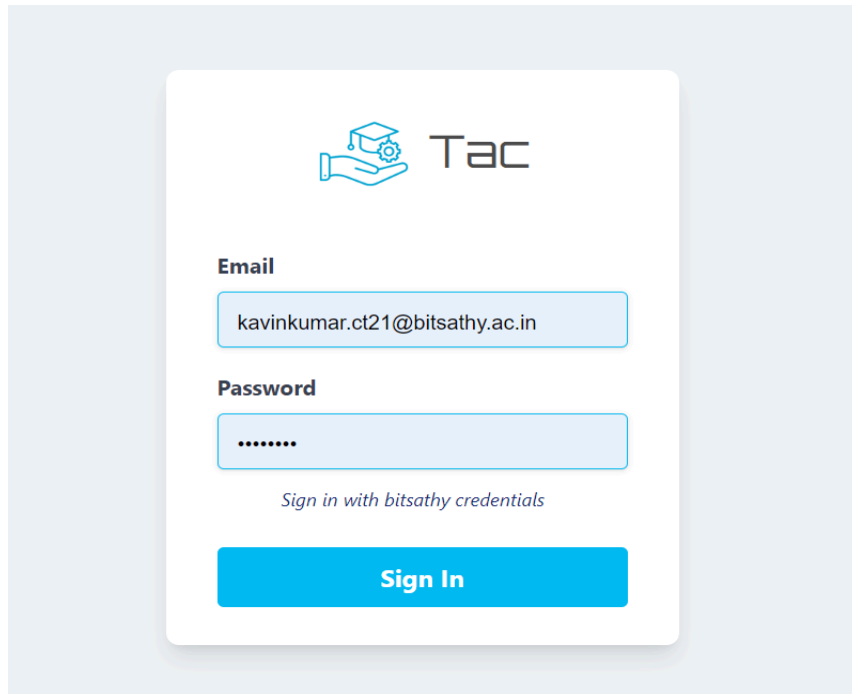
- **Performance:** The system must respond to user actions within 2 seconds to ensure efficient usability and must handle a concurrent user load of at least 100 users without significant performance degradation.
- **Security:** User data must be encrypted during transmission and storage, and access to 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.

### Stack:

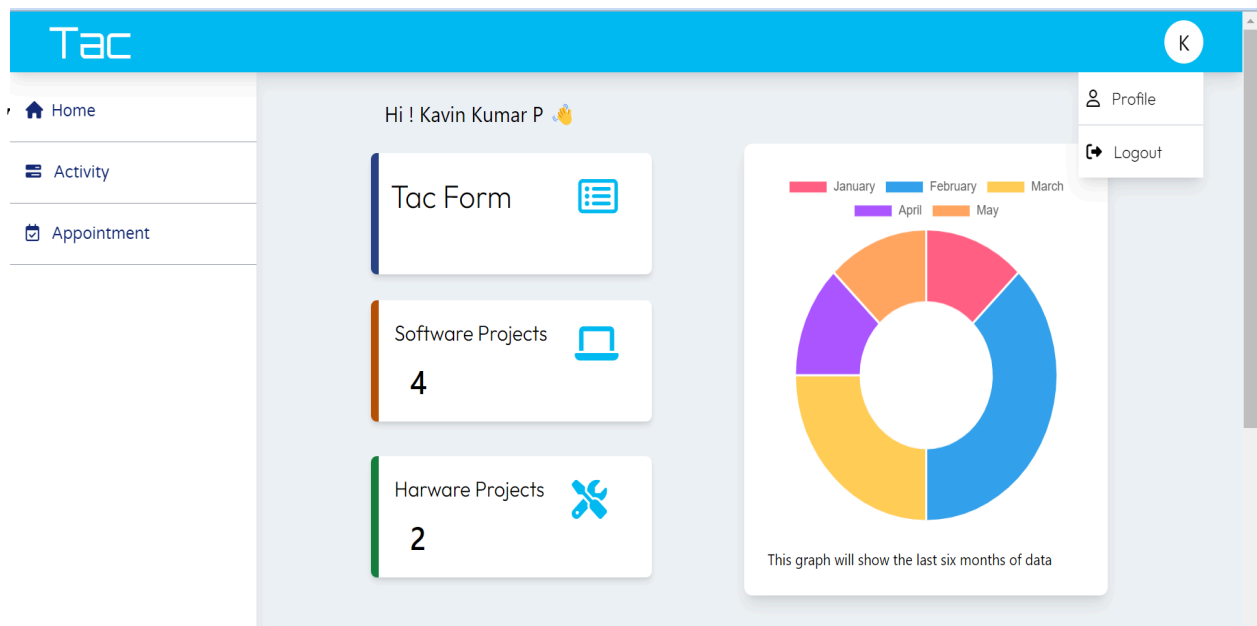
Front End	Vue Js, Tailwind css
Backend	Node Js, Express
Data Base	MongoDB

## Prototype of the Project:



The image shows a login form for a system called 'Tac'. At the top, there is a logo consisting of a hand holding a graduation cap with a gear inside, followed by the text 'Tac'. Below the logo, there are two input fields: one for 'Email' containing the text 'kavinkumar.ct21@bitsathy.ac.in' and one for 'Password' containing seven dots. Below the password field, there is a link that says 'Sign in with bitsathy credentials'. At the bottom of the form is a large blue button labeled 'Sign In'.

## Student's view



Name \*

Roll No \*

Category \*

Title \*

Number of Students \*

PDF Document \*

No file chosen

Student 1 Name\*

Student 1 Roll No \*

Activity page:

Your Activity

ROLL NO	CATEGORY	TITLE	NO OF STUDENTS	STUDENT 1	ROLL NO	PROVISIONAL DOCUMENT	STATUS
7376212CT124	Software	Budget buddy	1	Kavin Kumar p	7376212CT124	7376212CT124-PA-08.02.2023	Initiated
7376212CT124	Software	News Website	1	Kavin Kumar P	7376212CT124	7376212CT124-PA-10.04.2024	Rejected
7376212CT124	Software	Budget buddy	1	Kavin Kumar p	7376212CT124	7376212CT124-PA-08.02.2023	Approved
7376212CT124	Software	News Website	1	Kavin Kumar P	7376212CT124	7376212CT124-PA-10.04.2024	Approved



## Appointment Page:

**Name \***

**Roll No \***

**Tac ID \***

**Appointment date\***

Book

## Admin's View:

