



## BANNARI AMMAN INSTITUTE OF TECHNOLOGY

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PROJECT ID	20
SEAT NO	125
MODULE NAME	REWARD POINTS DASHBOARD

### Problem Statement

The current reward points dashboard for student events lacks efficiency and transparency, causing wasted time, frustration among users, and a lack of visibility into administrative processes. Implementing a solution to automate and streamline reward points allocation and approval processes is crucial for enhancing operational efficiency and participant satisfaction.

### Challenges

**Manual Points Allocation:** Admins manually allocate reward points based on event involvement and achievements, resulting in delayed and less precise distribution of points, thereby affecting overall productivity.

**No Edit Feature:** Participants are unable to fix mistakes in their points entries, causing inconsistencies and unfinished data, which affects the fairness of point allocations..

**Limited Feedback:** There's inadequate communication on why points submissions are approved or rejected, leaving participants without timely notifications or explanations for improvement.

**Technical Components:**

Component	Tech stack
Frontend	React js
Backend	Node js, Express js
Database	MongoDB
API	RESTful

**Implementation Timeline:**

Phase	Deadline	Status	Notes
Stage 1	22/07/2024	In progress ▾	Planning and Requirement Gathering
Stage 2		Not started ▾	Design and UI/UX Prototyping
Stage 3		Not started ▾	Backend Development
Stage 4		Not started ▾	Database Design and Implementation
Stage 5		Not started ▾	Integration and Testing
Stage 6		Not started ▾	Deployment

## **Project Overview**

### **Purpose**

Create a reward points dashboard to streamline reward points allocation, event uploading, follow-up, and proof approval, enhancing efficiency and transparency.

### **Scope**

Integrate user verification, event planning, proof submission, approval workflows, allocation of reward points, and generation of reports to enhance the efficiency of event documentation for participants and organizers alike.

### **Dependencies**

- Integrating a secure login system with BITSATHY mail or any other email system involves implementing various authentication and security protocols.
- Internet connectivity for system access.

### **Database Management System (DBMS)**

Database Management System (DBMS) for streamlined storage and management of event data, user profiles, verification documents, and reward points. Enable users to review and submit feedback regarding any modifications. Simultaneously, grant administrators the capability to inspect, upload, or amend specific information.

### **User personas**

#### **1. Student :**

- View upcoming events.
- Submit proofs for event participation.
- Provide feedback on allocated reward points.

#### **2. Faculty :**

- Schedule and manage events.
- Review and approve proofs.
- Allocate reward points according to the participation in the event.

### **3. Admin :**

- Approve events and event codes.
- Regulate the approval process managed by faculty.

### **4. Super-admin :**

- Manage and adjust the entire reward points dashboard and overseeing the distribution of rewards.
- Assist other admins and users by solving dashboard-related problems ensuring smooth operations.

## **Functional requirements**

### **1. User Authentication**

- Integrate with BITSATHY mail System for secure login.
- Ensure different access levels for students, faculty, admins, and super-admins.

### **2. Event Management**

- Faculty members have the ability to organize and oversee events.
- Students can view upcoming event details.
- Admins can approve event codes.

### **3. Proof Submission**

- Students can submit proofs for event participation.
- Faculty can review and validate proofs.

### **4. Approval Workflow**

- Faculty can approve or reject proofs.
- Admins regulate event code approvals.
- Super-admins manage the entire approval process.

## **5. Reward Points Allocation**

- Automate reward points allocation.
- Faculty can allocate and adjust points.
- Students can view and provide feedback on points in case of any changes.

## **6. Data Management**

- Use a robust DBMS for data storage and management.
- Allow secure data access and editing by authorized users.

## **7. User Interface**

- Design an easy-to-use and adaptable interface for every user type.

## FLOWCHART:

