



BANNARI AMMAN INSTITUTE OF TECHNOLOGY

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NAME OF THE STUDENT: MANIKANDAN V

ROLL NO: 7376222CT129

PROJECT ID: 20

SEAT NO: 294

MODULE NAME: REWARD POINTS DASHBOARD

TECHNICAL COMPONENTS:

Component	Tech Stack
Frontend	HTML, CSS, JS
Backend	Python, Django (Python Web)
Database	PostgreSQL, MySQL
API	Open-API, SOAP APIs, REST Ful API

IMPLEMENTATION TIMELINE:

PHASE	DATE	STATUS	NOTES
STAGE 1			Planning and Requirement Gathering
STAGE 2			Design And UI/UX Prototyping
STAGE 3			DB Designing and Implementation
STAGE 4			Backend Development
STAGE 5			Integration and Testing
STAGE 6			Deployment

PROBLEM STATEMENT:

Currently, many lack an efficient system to track, manage, and reward these efforts comprehensively. Without a centralized dashboard, students and faculty face difficulties in understanding how their efforts translate into rewards, leading to reduced motivation and participation. Additionally, faculty members need a streamlined way to monitor and encourage student engagement.

CHALLENGES:

- 1. Unclear Point Allocation:** Without a transparent system, students and faculty often find it difficult to understand how points are awarded for different activities. This lack of clarity can lead to confusion and reduce motivation, as users are unsure of what actions will yield rewards.
- 2. Limited Visibility:** In the absence of a centralized dashboard, users do not have an easy way to monitor their accumulated points or track their progress toward rewards. This lack of visibility can make it harder for users to set goals and stay engaged.
- 3. Time-Consuming Processes:** Relying on manual methods to track and update points, which can be labor-intensive and time-consuming for faculty and administrative staff. This inefficiency can detract from other important educational tasks and responsibilities.
- 4. Prone to Errors:** Manual tracking systems are susceptible to human error, which can lead to inaccurate point totals and discrepancies. Such errors can cause frustration among students and faculty, undermining the credibility of the rewards program.
- 5. Lack of Incentive:** Without a well-defined and visible rewards system, students and faculty may not see the value in participating in additional activities beyond their core responsibilities. This lack of incentive can result in lower overall participation and engagement in programs.

6. **Limited Faculty Control:** Faculty members may need more control over creating and managing custom challenges and rewards for their students. Without this capability, the rewards system may not effectively support specific departmental objectives.

PROJECT FLOW:

Purpose:

The purpose of this project is to create an efficient and transparent system for managing and allocating reward points to students based on their participation in various events. This system aims to enhance student engagement, streamline event management, and ensure accurate tracking and distribution of rewards.

Scope of the Project:

The project scope includes developing a rewards points dashboard for managing student events. Key features are user authentication via BITSATHY mail ID, event scheduling and management by faculty, proof submission and feedback for students, and automated reward points allocation. The system will streamline approval workflows and provide reporting features to enhance transparency and efficiency.

Dependencies:

- Integrating a secure login system with BITSATHY mail or any other email system involves implementing various authentication and security protocols.
- Users have regular access to internet-enabled devices.

User personas:

1. **Student:** Participates in events, submits proof of participation, views upcoming events, and provides feedback on allocated reward points. Values a straightforward interface to track participation and manage points efficiently.

2. **Faculty:** Schedules and manages events, reviews and approves events, and allocates or adjusts reward points. Needs tools to efficiently handle event logistics and ensure accurate reward distribution.
3. **Admin:** Approves event codes, regulates the approval process managed by faculty, and ensures overall compliance. Requires a system that supports oversight and manages the integrity of the approval workflow.
4. **Super Admin:** Manages the entire dashboard, oversees data management, and ensures smooth operation of all processes. Needs comprehensive control over the system, including user management, reporting, and troubleshooting.

Functional requirements:

1. **User Authentication:**
 - Login and authentication via BITSATHY mail ID.
 - Different access levels for students, faculty, admins, and super admins.
2. **Event Management:**
 - Faculty can create, schedule, and manage events.
 - Admins can approve or reject event codes.
 - Students can view upcoming events.
3. **Proof Submission:**
 - Students can submit proof of event participation.
 - Faculty can review and validate submitted proofs.
4. **Approval Workflow:**
 - Faculty manage the approval process for events and proofs.
 - Notifications for students and faculty regarding approval status and feedback.

5. Reward Points Allocation:

- Faculty can allocate and adjust reward points based on validated proofs.
- Automated points calculation based on predefined criteria.

6. Feedback Mechanism:

- Students receive feedback on their submitted proofs and points allocation.
- Faculty can provide explanations for approved or rejected submissions.

7. Report Generation:

- Generate reports on event participation, points allocation, and approval statuses.
- Customizable reports for different user roles (faculty, admin, super admin).

8. User Management:

- Super admins can manage user roles and permissions.
- Administrative tools for managing users and data integrity.

9. Dashboard Interface:

- User-friendly interface for all roles to access their respective functionalities.
- Real-time updates and notifications on the dashboard.

10. Data Security:

- Ensure secure handling of user data and event records.
- Implement data privacy measures and access control.

FLOWCHART:



