

Software Requirement Specification for Reward Points Dashboard

NAME	Madhumitha P
ROLL NO	7376222IT189
SEAT NO	126
PROJECT ID	20
PROBLEM STATEMENT	Reward Points dashboard

Technical components:

Component	Tech Stack
Front End	React
Back End	Node.js with Express.js
Database	MongoDB (NO SQL Database)
API	OpenAPI

Implementation Time:

Phase	Deadline	Status	Notes
Stage 1		In Progress	Planning and Requirements gathering
Stage 2			Design And Prototyping
Stage 3			DB Designing
Stage 4			Backend Implementation
Stage 5			Testing &Implementation

Problem statement:

The current reward points system within educational institutions faces several challenges for both students and faculty, especially when dealing with both technical and non-technical events:

1. **Inconsistent Tracking:** Students and faculty find errors in reward points due to manual tracking.
2. **Scattered Data:** Students and faculty struggle to find participation and reward points information spread across various places.
3. **Inefficient Approval Processes:** Faculty faces slow and complex steps for event approvals and reward point allocations.
4. **Communication Issues:** Students miss important updates about events and rewards due to lost emails, and confusion.
5. **High Administrative Load:** Faculty and staff spend a lot of time managing event approvals, registrations, and reward points, which is demanding.

Purpose:

To develop a centralized reward points system that efficiently manages student and faculty activities, addressing issues like inconsistent tracking, scattered data, inefficient approval processes, communication issues, and high administrative load.

Scope:

This system includes user authentication, dashboards for students, faculty, admins, and super-admins, event management, reward points allocation, and a communication module. It integrates with Google Forms for student registrations.

BusinessContext:

The reward points system aims to enhance the efficiency and transparency of managing technical and non-technical event participation and rewards. Primary stakeholders include students, faculty, administrative staff, and the IT department.

Considerations:

- All users have active accounts for authentication.
- Users have regular access to internet-enabled devices.

User Personas:

1. **Student:** Needs an up-to-date dashboard to view events participated in, registered events, and reward points.
2. **Faculty:** Requires the ability to request event approvals, manage event registrations, and allocate reward points.
3. **Admin Staff:** Manages event approvals and system operations.
4. **Super Admin:** Monitors activities of students, faculty, and admin staff and manages the overall system flow, including reward points approval.

Functional Requirements:

1. **User Authentication:** Secure login for students, faculty, admin, and super-admin.
2. **Student Dashboard:** View participated events, allocated reward points, and available events for registration.
3. **Faculty Dashboard:** Request event permissions, send Google Forms for event registration, review responses, and allocate reward points.
4. **Admin Dashboard:** Review and approve/reject event requests.
5. **Super Admin Dashboard:** Monitor activities of students, faculty, and admin staff, review and approve allocated reward points, and manage the website flow.
6. **Database Integration:** Centralized database for storing user data, event data, and reward points.

Flow chart:



