



BANNARI AMMAN INSTITUTE OF TECHNOLOGY
An Autonomous Institution Affiliated to Anna University - Chennai, Accredited by NAAC with A+ Grade
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Project ID: 20

Project title: Reward Points Dashboard

Technical Components

Backend	Node.js and Express.js
Frontend	Angular
Database	MongoDB

Problem Statement:

Engineering colleges often face challenges in effectively tracking and managing students achievements in both technical and non-technical domains. The current systems, which are predominantly manual or semi-automated current manual systems .

Project Flow:

Purpose:

The purpose of this document is to define the software requirements for a Students Technical and Non-Technical Reward Points System, to be developed using the MEAN (MongoDB, Express.js, Angular, Node.js) stack. This system will allow administrators to manage reward points for students and enable students to view their points and provide feedback.

Scope:

This system will be used by engineering colleges to track and manage students' reward points for both technical and non-technical achievements. The system will provide functionality for administrators to add, update, and delete students and their points, and for students to view their points and submit feedback.

Product Perspective:

This system will be a web application developed using the MEAN stack, providing a user-friendly interface for both administrators and students.

Product Functions:

- **Admin Functions:**
 - Add, update, and remove students.
 - Add, update, and view technical and non-technical points.
 - Generate reports.
 - View and respond to feedback.
- **Student Functions:**
 - View technical and non-technical points.
 - Submit feedback.

User Classes and Characteristics:

- **Administrators:** Staff members who manage student records and points.
- **Students:** Users who view their points and submit feedback.

Operating Environment:

- **Client:** Any modern web browser.
- **Server:** Node.js server.
- **Database:** MongoDB.

Design and Implementation:

- Develop using the MEAN stack.
- Should be responsive and accessible on various devices.

High-Level Workflow:

User Login: Both admins and students log in to the system.

Admin Dashboard:

- Manage students.
- Manage technical and non-technical points.
- Generate reports.
- View and respond to feedback.

Student Dashboard:

- View technical and non-technical points.
- Submit feedback.

Admin Workflow:

1. Admin logs in.
2. Admin navigates to the dashboard.
3. Admin selects to view all students or manage points.
4. Admin selects a student to update points.
5. Admin updates technical or non-technical points.
6. Admin generates reports as needed.
7. Admin views feedback and responds if necessary.

Student Workflow:

1. Student logs in.
2. Student navigates to the dashboard.
3. Student views their technical and non-technical points.
4. Student submits feedback.

Functional Requirements:

User Authentication

- Users must be able to log in using their Email ID.
- Passwords must be stored securely.

Feedback System:

- Students must be able to submit feedback through a form.
- Admins must be able to view and respond to feedback.

FLOW CHART:

