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| **NAME OF THE STUDENT** | SABARI M |
| **ROLL NO** | 7376221MC140 |
| **PROJECT ID** | 20 |
| **SEAT NO** | 292 |
| **MODULE NAME** | REWARD POINTS DASHBOARD |

**Problem Statement**

The Reward Point Dashboard aims to give college students a clear and transparent view of the points they have earned by completing tasks assigned by faculty. This platform motivates students by highlighting their achievements, encourages engagement in academic activities, and helps them track progress towards rewards. By visualizing their contributions and milestones, students are better informed and inspired to actively engage in their educational journey.

**Challenges Faced in Existing Site:**

* **Manual assignment of points:** Administrators invest extreme energy physically doling out remuneration focuses in view of occasion cooperation and accomplishments, postponing precise focuses circulation and thwarting generally proficiency.
* **Insufficient Feedback:** There's inadequate communication on why points submissions are approved or rejected, leaving participants without timely notifications or explanations for improvement
* **Edit Not Available:** Members can't right mistakes in their focuses entries, prompting errors and fragmented records, affecting reasonableness in focuses circulation..

**Technical Components**

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| **COMPONENT** | **TECH STACK** |
| Frontend | Angular.JS |
| Backend | Node.js |
| Database | MongoDB |
| API | Express.js |

**Implementation Timeline**

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| --- | --- | --- | --- |
| **Phase** | **Deadline** | **Status** | **Notes** |
| Stage 1 | 22/07/2024 | In progress | Planning and  Requirement Gathering |
| Stage 2 |  | Not started | Design and UI/UX  Prototyping |

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| 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**

1. **Purpose:**

The purpose of the Reward Point Dashboard is to provide college students with a clear and transparent view of their accumulated points earned through completing faculty-assigned tasks. This platform motivates students by showcasing their achievements, encourages engagement with academic activities, and helps track progress towards rewards. By visualizing their contributions and milestones, students are better informed and inspired to actively participate in their educational journey.

1. **Scope:**

To create a user-friendly site with user authentication, event management, proof submission, approval workflow, reward points allocation, and report generation to simplify event documentation for users and administrators.

1. **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.
2. **Database Management System (DBMS)**

MongoDB is integral to the reward point website’s backend. MongoDB offers advanced features and scalability for handling complex queries and large datasets, ensuring efficient data storage and retrieval. It provides smooth management of student points, allowing for real-time updates and a responsive user experience on the reward point dashboard.

1. **User personas**

# Student:

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

# Faculty:

* + Schedule and manage events.
  + Review and approve proofs.
  + Allocate and adjust reward points.

# Admin:

* + Approve event codes.
  + Regulate the approval process managed by faculty.

# Super-admin:

* + Manage the entire reward points dashboard.
  + Ensure the smooth operation of the approval workflow and data management.

1. **Functional requirements**

# User Authentication

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

# Event Management

* + Faculty can schedule and manage events.
  + Students can view event details.
  + Admins can approve event codes.

# Proof Submission

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

# Approval Workflow

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

# 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.

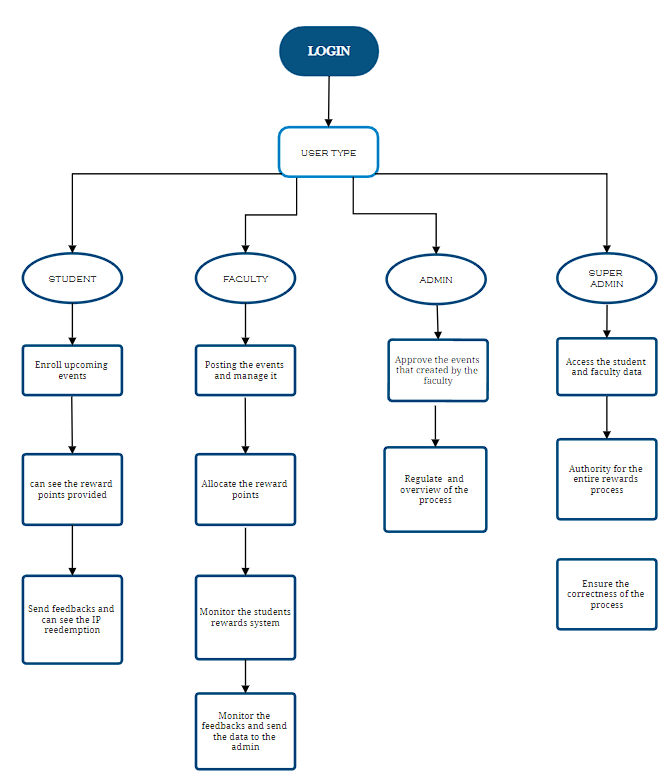
# Data Management

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

# User Interface

* + Design an intuitive and responsive interface for all user roles.

**FLOWCHART**

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