# BANNARI AMMAN INSTITUTE OF TECHNOLOGY

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**Sathyamangalam - 638401 Erode District, Tamil Nadu, India**

**Student Name:** PRAVENKUMAR D

**Seat No:** 415

# Project ID: 15

**Project title:** Product Review And Tracking System

## Technical Components

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| --- | --- |
| **COMPONENT** | **TECH STACK** |
| Backend | NODE.js |
| Frontend | VUE.js |
| Database | MongoDB |
| API | REST Ful API |

**Implementation Timeline**

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| --- | --- | --- | --- |
| Phase | Deadline | Status | Notes |
| Stage 1 | 04/05/2024 | In progress | Planning and  Requirement Gathering |
| Stage 2 |  | Not started | Design and UI/UX Prototyping |
| Stage 3 |  | Not started | Database Design and  Implementation |

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| --- | --- | --- | --- |
| Stage 4 |  | Not started | Backend Development |
| Stage 5 |  | Not started | Integration and Testing |
| Stage 6 |  | Not started | Deployment |

## PROBLEM STATEMENT:

Build the portal for the product development process involves stages critical for success, including problem statement approval, BoM submission, reviews, student member assignment, uniqueness checking, documentation, and reward points. The portal should feature forms, workflows, task tools, plagiarism checks, and document management.

## PROJECT-FLOW:

**Purpose:**

Develop a web-based Product Review and Tracking System for the TO office Special Labs to streamline the whole product development process and assessment and allocate reward points based on student performance.

## Scope:

The system will include user authentication, a dashboard for uploading problem statement for product development , report submission, Expert Team verification, BOM submission, product assessment processes, reward points allocation and transparency measures for student performance tracking. Expert team will have full access to system functionalities, including managing reward points criteria and user roles. Reviewers will assess student projects and allocate reward points accordingly, ensuring fairness and transparency in the assessment process.

Business Context:

The development portal is designed to streamline the product development lifecycle, facilitating seamless collaboration among team members and ensuring the successful completion of each stage. The primary objective is to optimize the process of problem statement approval, BoM submission, peer reviews, student member assignment, plagiarism checks, documentation, and reward points allocation. Key stakeholders include project managers overseeing the development process and team members responsible for executing tasks efficiently

**Consideration:**

● Admins have comprehensive access to manage the product development stages, oversee the assessment process, and ensure smooth workflow execution.

● Reviewers can assess project submissions, provide feedback, and contribute to the evaluation process.

## Dependencies:

● Integration with Google OAuth for secure user authentication.

● Consistent system performance and availability to meet user needs and organizational requirements.

## User Personas:

● Admin: Oversees the product development process, manages user roles, and ensures efficient workflow management.

● Reviewer: Evaluates project submissions, provides feedback, and contributes to the assessment process.

## User Stories:

* Admin: Requires efficient tools to manage product development stages, assign tasks to team members, and configure system settings.
* Reviewer: Needs an intuitive interface to evaluate project submissions, provide feedback, and contribute to the assessment process effectively.

## Functional Requirements:

● User Authentication: Secure login using Google OAuth for all system users.

● Dashboard: Provides an overview of project submissions, task assignments, and workflow status.

● Project Evaluation: Enables Reviewers to assess project submissions, provide feedback, and contribute to the evaluation process effectively.

● Transparency Measures: Maintains an audit trail of all project evaluations and system activities to ensure accountability and transparency in the assessment process.

## FLOW CHART

