Student Name: RAJESHWAR T K

Seat No: 255

Project ID: 15
Project title: Product Review and Tracking System

TECHNICAL COMPONENTS:

Front End	• HTML • CSS • JS
Back End	• Python • Django(Python Web)
Database	• PostgreSQL • MySQL
API	• OpenAPI • SOAP APIs • REST Ful API

PROBLEM STATEMENT :

Introducing our innovative Product Review and Tracking System (PRTS), designed to streamline the entire product development process from conception to launch. PRTS offers a comprehensive portal that encompasses essential stages crucial for success, including problem statement approval, Bill of Materials (BoM) submission, peer reviews, student

member assignment, uniqueness checking, documentation, and reward point allocation. Our portal boasts user-friendly forms, intuitive workflows, robust task management tools, plagiarism detection capabilities, and efficient document management functionalities. With PRTS, teams can seamlessly collaborate, ensure the integrity of their work, and track progress every step of the way, ultimately driving innovation and excellence in product development.

STAKEHOLDERS:

1. Students
2. Faculty's
3. Admin: OFFICEACADEMICS

PROJECT FLOW :

Purpose :

The portal aims to smooth out the item advancement process by working with problem statement approval, BoM accommodation, surveys, student member assignment, uniqueness checking, documentation, and reward points allocation. By coordinating forms, workflows, task tools, plagiarism checks, and document management, the gateway upgrades cooperation, guarantees adherence to courses of events and advances development and greatness in project execution.

Scope :

The Scope envelopes foster a complete gateway for item improvement, covering problem statement approval, BoM submission, reviews, student member assignment, uniqueness checking, documentation, and reward points. The portal will include easy-to-understand interfaces, mechanized work processes, and strong robust task management tools. Incorporation of plagiarism checks and document management ensures project integrity. Moreover, the portal will uphold consistent joint efforts among partners, giving a centralized platform for tracking progress and facilitating communication.

Functional Prerequisites :

1. User authentication and role-based access.
2. Submission forms for problem statements and BoMs.
3. Automated approval workflows.
4. Peer review functionality.
5. Document management with plagiarism detection and version control.

PAGES :

Login:

1. Users authenticate using unique credentials (email/password).
2. Differentiates between student, faculty/industry, and admin logins.

Dashboard:

Student:

1. Access the project tracker to view progress stages.
2. Submit problem statements and BoMs.
3. Participate in peer reviews.
4. Track reward points earned.
5. View the completed projects gallery.

Faculty/Industry:

1. Approve problem statements and guide project development.
2. Monitor project progress via tracker.
3. Submit feedback and reviews.
4. Access the gallery of the completed project.
5. Manage student assignments and team details.

Admin:

1. Manage user accounts and permissions.
2. Oversee the entire project lifecycle.
3. Review and approve project submissions.
4. Monitor plagiarism checks and uniqueness verification.
5. Generate reports on project statistics and performance.

FUNCTIONALITIES :

Register for a Project:

1. Only the team leader can register for a project.
2. Each registered project must include at least one student from the relevant domain.
3. Each project can be registered to only one team.

Visualization:

1. Display all available projects for student registration.
2. After registration, students can view details of their assigned project only.
3. In the project review tracking system dashboard, only the current user's mark for the project should be visible.

DATABASE :

The database supports the Product Review and Tracking System, putting away task information like problem statements and progress. It oversees user authentication and

awards role-based admittance to project details. Students register for projects, while faculty watches the progress and give feedback. The database guarantees information integrity, working with consistent coordinated effort and efficient workflow management. It plays a vital role in maintaining transparency and responsibility throughout the item improvement lifecycle is crucial.

FLOWCHART :