

FULLSTACK WEBDEVELOPMENT PROJECT

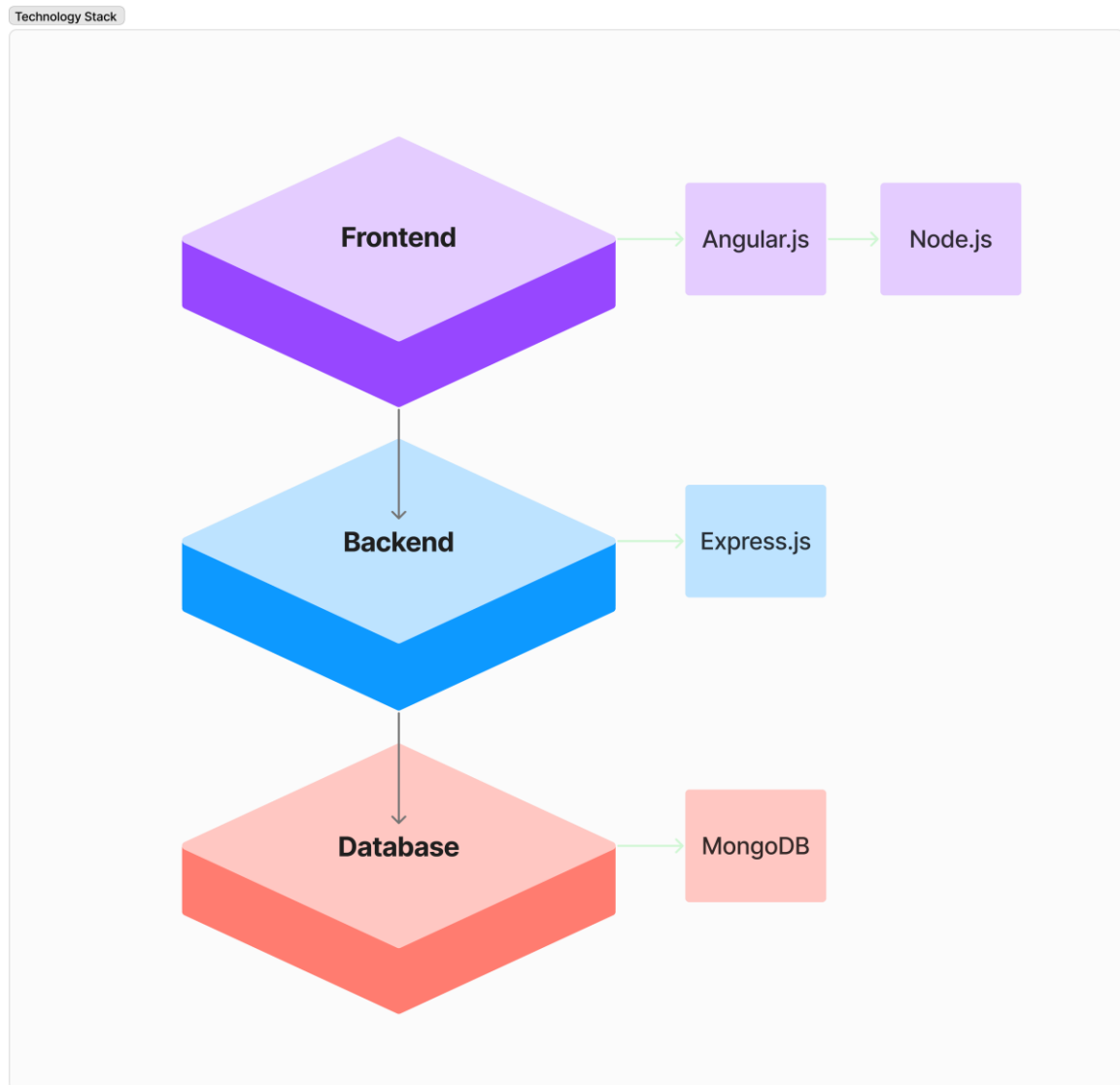
Student Name : SUDHARSAN V

Seat No : 215

Project ID : 15

Project Title: Product review and Tracking system

Technology Stack :



PROBLEM STATEMENT :

A software initiative created to make the process of compiling, evaluating, and organising product reviews easier. Usually, it entails creating a mobile or web application that lets admin conduct the review and track the product status.

- **Approval of Problem Statements:** User can submit problem statements for suggested products through the portal. After going through a review process, the statements are moved on to the next phase.
- **Bill of Materials (BoM) Submission:** User are able to submit their bill of material (BoM) for the products they are developing. A list of all the parts and supplies needed for production is included in this.
- **Uniqueness Checking:** The portal incorporates tools for uniqueness checking in order to preserve originality and prevent plagiarism. This guarantees the authenticity and uniqueness of problem statements and documents that are submitted.
- **Reviews:** The portal has a review system that allows stakeholders and team members to comment on problem statements, bill of materials, and other project components that have been submitted.
- **Reward Points:** The portal uses a reward point system to encourage contributions and active involvement. Points are awarded to users who finish assignments, turn in high-caliber work, and participate actively in the development process.

PROJECT-FLOW :

Purpose : The purpose of the project is to develop a comprehensive portal facilitating product development stages: problem statement approval, BoM submission, reviews, member assignment, uniqueness checks, documentation, and reward points, enhancing collaboration and efficiency.

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Scope : The scope of the project encompasses developing a feature-rich portal for managing the product development process, including problem statement approval, BoM submission, reviews, member assignment, uniqueness checks, documentation, and reward points integration.

Dependencies :

- Implementation of secure user authentication and authorization mechanisms.
- Setting up the database architecture to store project-related data securely.
- Selection of appropriate technologies and frameworks for portal development.

User Personas (Stack holders) :

- **Faculty/Industry(own):** Create the problem statement by checking the uniqueness of the product and components.
- **Students:** Apply for the problem statement with the eligibility criteria.
- **Expert committee:** Approval of problem statement and review the status of the problem statement.


Functional Requirements:

- **User Authentication:** Secure login using Google Authentication.
- **Apply for Problem statement :** Faculty create the problem statement by checking the uniqueness and initiate for approval for expert committee.
- **Application form for students :** Apply for the problem statement with the eligibility criteria.
- **Realtime Dashboard :** Product completed and ongoing status is viewed in that and rewards allocated for the contribution of students.
- **Review status :** Reviews scheduled for products by weekly basis by the concern client.


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UML DIAGRAM :

DB

Authentication		
 User_id		int
User_email		varchar(255)
Password		varchar(255)
User_name		string



Student_Application		
 Student_id		int
Roll_num		int
Name		string
Email		varchar(255)
technology_known		string
Current_Academic_year		int
Domain		string(dropdown)
Resume_pdf		GridFS

