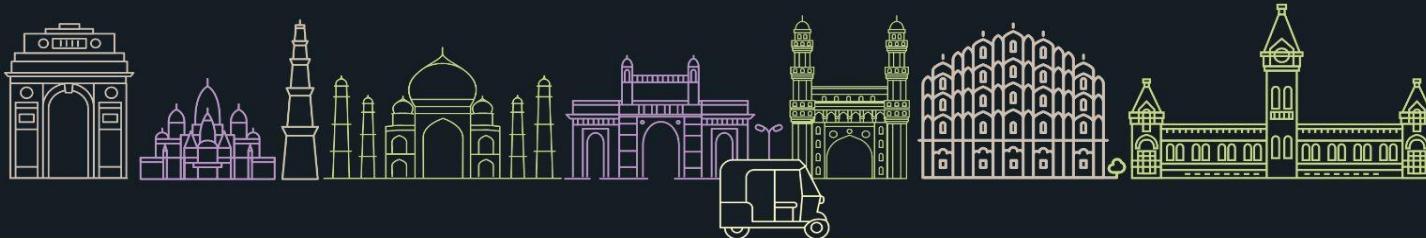


AI for Bharat Hackathon

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Team Name : Team GJ

Team Leader Name : Parth Shah

Problem Statement: Build an AI-powered solution that helps people learn faster, work smarter, or become more productive while building or understanding technology.

Brief about the Idea:

- **DevMentor AI is an AI-powered learning and productivity assistant designed for students, developers, and early-career engineers who are learning or building technology. It helps users understand concepts faster, debug smarter, and convert learning into real projects.**
- **Instead of generic tutorials or scattered documentation, DevMentor AI works inside the developer workflow to explain, guide, and accelerate learning.**

Your solution should be able to explain the following:

- How different is it from any of the other existing ideas?

➤ **DevMentor AI is different because it:**

- Combines learning + building + productivity in one assistant
- Works on your actual code and projects, not generic examples
- Explains why something works or fails, not just what to type
- Adapts explanations to the user's skill level (beginner → advanced)

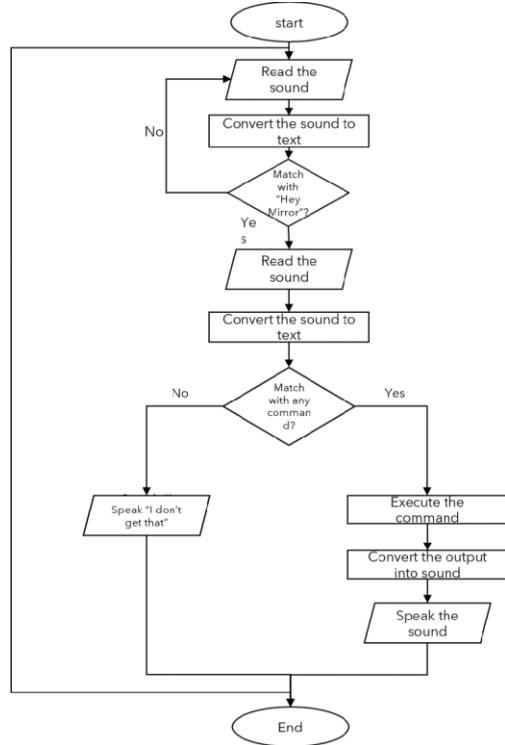
- **How will it be able to solve the problem?**
 1. **Context-Aware Understanding**
 2. **Simplified Concept Explanation**
 3. **Learn-by-Building Approach**
 4. **Intelligent Debugging Support**
 5. **Reduced Context Switching**
- **USP of the proposed solution**
 -  **Mentor-First Intelligence**
 -  **Learn-by-Building Approach**
 -  **Skill-Level Personalization**
 -  **End-to-End Developer Support**
 -  **Context-Aware Assistance**

List of features offered by the solution

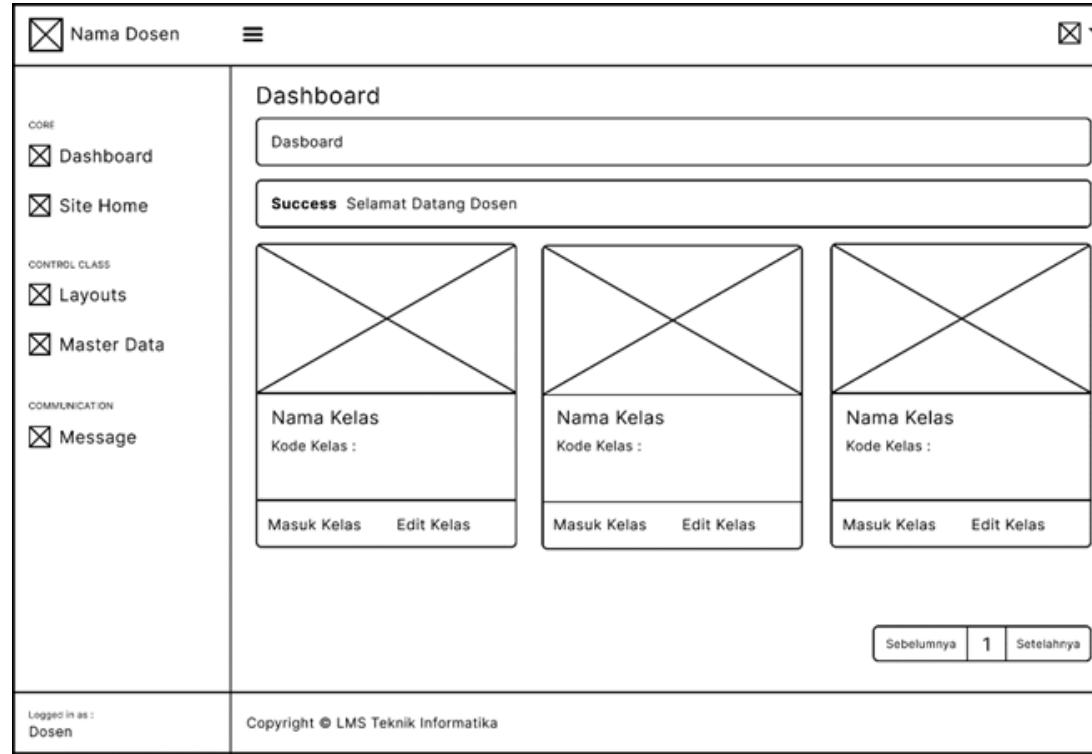
- **Code Quality Analysis**
- **Best Practice Recommendations**
- **Security Vulnerability Detection**
- **Performance Optimization Suggestions**
- **Code Readability Improvements**
- **Maintainability Checks**



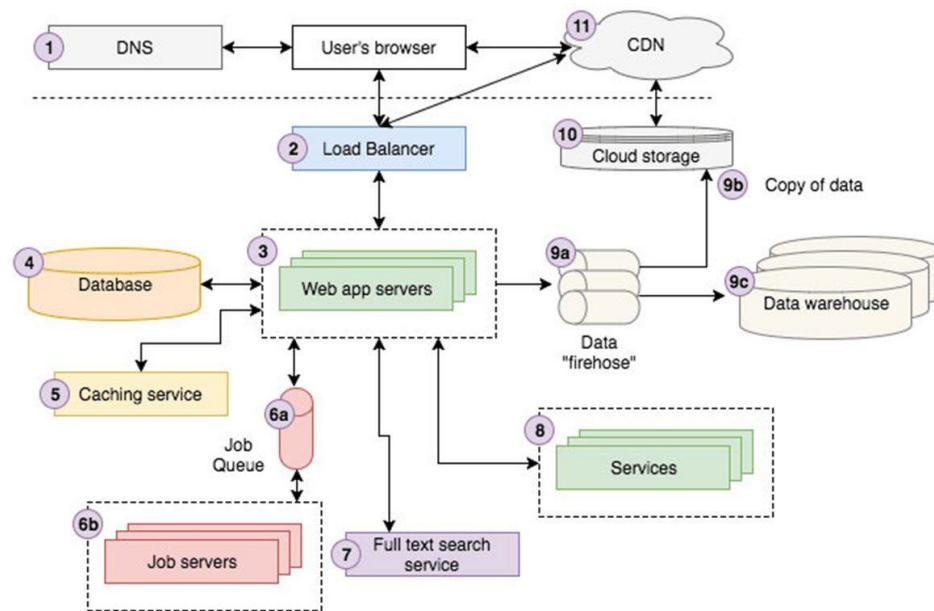
Process flow diagram or Use-case diagram



Wireframes/Mock diagrams of the proposed solution (optional)



Architecture diagram of the proposed solution:



Technologies to be used in the solution:

- **Frontend: React.js, TypeScript**
- **IDE Integration: VS Code Extension API**
- **Backend: Node.js (Express/NestJS), REST APIs**
- **AI Layer: Large Language Models (LLMs), Prompt Engineering, RAG**
- **Data & Storage: PostgreSQL / MongoDB, Vector Database**
- **Deployment: Docker, Cloud (AWS/GCP/Azure)**

Add as per the requirements for the hackathon:

- **Open-source frontend & backend frameworks – No cost**
- **AI/LLM usage via free tier or demo credits – Minimal / No cost**
- **Database using free cloud tier – No cost**
- **Cloud hosting using free services – No cost**
- **IDE integration as prototype/mock – No cost**
- **Total estimated cost: ₹0 – ₹1,000**

Innovation partner **H2S**

Media partner **YOURSTORY**

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Thank You

