

Annexure I (For Project development)

1) Project statement :

Developing an AI-powered web app where developers can link repositories, view AI-generated commit summaries, and search code using natural language.

2) Approximate duration(in hours)to complete the project: 90-120 hours

3) Proposed Project in charge: Ishaan Singla

4) Team Members along with roll no's:

(i) Ishaan Singla (2210992582)

5) Check Points:

- a) Does the project statement result in a product? If yes, what type of product?
 - i) Yes, a web-based app that helps developers manage repositories, view AI-generated commit summaries, and search code using natural language.
- b) if it is a product, can a prototype be made, if not, what is it, which we can produce that our teachers can evaluate:
 - i) Yes, a functional prototype of the web app can be made, showcasing key features like repository linking, AI-generated commit summaries, and basic code search for evaluation.
- c) Does the project statement use multiple concepts to achieve the outcome? (yes/no): Yes
- d) does it have enough for our team members to do sufficient amount of work? (yes / no): Yes

6) Technical Nodes *(add more rows in the table below , if required)*

Subject/Area/ Topic	Technical Notes
Frontend	Next.js, React.js, HTML/CSS, JavaScript, API integration (Google Gemini, Assembly AI), UI libraries (Shadcn)
Backend	Neon Console (database management), Clerk (authentication), API integration (Assembly AI, Google Gemini), GitHub API for repository linking

7) Prerequisites (in terms of knowledge, concepts and material) for doing the Project:

- a) Knowledge of Next.js, React.js, HTML/CSS, JavaScript, API integration (e.g., Google Gemini, Assembly AI), user authentication (Clerk), database management (Neon Console), Git/GitHub, and deployment (Vercel).

8) Material that may be required to make the project and where it might be available:

- a) Development tools (VS Code), libraries (Next.js, React.js, Google Gemini AI, Assembly AI, Clerk), database (Neon Console), deployment platform (Vercel), and version control (Git/GitHub) from online resources and package managers.

9) What could the total cost of the project?

- a) Rs 359 / hour

10) Resources available to us:

- a) Online development resources, open-source libraries, AI tools (e.g., Google Gemini, Assembly AI), GitHub for version control, and community support through forums, documentation, and tutorials.