

Prototype (Version 1)

Start Assignment

- Due Thursday by 11:59pm
- Points 50
- Submitting a text entry box, a website url, a media recording, or a file upload

1. Prototype Build (50 points)

Using Replit, Cursor, Windsurf, or a similar AI coding platform, create a functional prototype of your proposed solution.

- The prototype should be based on your PRD.
- It should demonstrate a minimum viable product (MVP) — enough to visualize and simulate your idea's core functionality.
- Include the following in your submission:
 - Live link or screen recording of the prototype
 - Screenshots of key user flows (e.g., homepage, form, dashboard, chatbot window, etc.)

2. Software Architecture Report (10 points)

- Document and explain the technical structure of your prototype. You may use visuals (diagrams, charts, or screenshots) and short written descriptions.
- Include the following:
 - Architecture Diagram: A labeled diagram showing how components interact (e.g., frontend → backend → database/API).
 - Description of Components:
 - Frontend: What is displayed to the user? Which files or frameworks were used (e.g., HTML, CSS, React)?
 - Backend: What logic or data processing occurs behind the scenes? (ex. Django, Flask, Node.js, Python scripts).
 - Data Layer or APIs: Are there any data sources, mock databases, or external APIs involved?
- Flow of Interaction: Explain how a user action triggers responses in the system. For instance: "User inputs data → backend validation → data displayed in dashboard".

3. Prompt Submission and Reflection (10 points)

Include the exact prompt(s) used to generate your prototype. If you used multiple prompts during iteration, provide a summary and include them in chronological order.

Then, write a short reflection (200–300 words) answering:

- How did your prompt evolve as you refined your prototype?
- What did you notice about how the AI interpreted your PRD or instructions?
- What elements did you manually adjust or fix to align with your intended design?
- What did you learn about communicating effectively with AI?