Project Design Phase
Problem – Solution Fit

Date	15 February 2026
Team ID	LTVIP2026TMIDS24242
Project Name	Gemini Historical Artifact Description
Maximum Marks	2 Marks

Problem-Solution Fit : Gemini Historical Artifact Explorer

1. Customer State

- Who is it? Museum visitors, history students, researchers, and curious hobbyists.

- What are they doing? Visiting museums, browsing antique shops, or researching historical topics online.

- Context: They are often on the move (mobile) or studying at a desk (desktop), looking for specific information about an object they see or are reading about.

2. Problem

- Limitations: Physical museum placards are often brief, missing, or in a language the user doesn't understand.

- Information Overload: Searching online for "old vase with blue pattern" yields thousands of irrelevant results.

- Lack of Expertise: Users often lack the vocabulary to describe what they are seeing, making text-based search ineffective.

- Time Constraints: Students and researchers need summarized, credible information quickly without reading entire books.

3. Solution (The "Gemini Historical Artifact Explorer")

- Visual Search: Identify artifacts instantly by uploading a photo, bypassing the need for technical terms.

- AI Curator: Generates detailed, structured descriptions (Origin, Age, Significance) using Google Gemini 2.5 Flash.

- Customizable Depth: "Describe by Name" allows users to get exactly the level of detail they need (500-2000 words).

- Accessibility: Acts as a personal tour guide that is always available, providing consistent quality information on any artifact.

4. Goals / Triggers / Channels

- Goals: To gain instant knowledge, satisfy curiosity, and access professional-level historical data effortlessly.

- **Triggers:**

  - Seeing an interesting object in a museum.

  - Finding a unique item at a flea market.

- Needing a quick summary for a history assignment.
- **Channels:**
    - Mobile Web: For on-the-go identification in museums.
    - Desktop Web: For deeper research and reading generated reports.
    - Social & Search: Capturing users searching for specific historical queries.