

## Project Design Phase

### Proposed Solution

Date	8 February 2026
Team ID	LTVIP2026TMIDS91648
Project Name	Gemini Historical Artifact Description
Maximum Marks	2 Marks

#### Proposed Solution:

S.No.	Parameter	Description
1.	<b>Problem Statement (Problem to be solved)</b>	Students, researchers, museum curators, and history enthusiasts spend significant time researching and writing structured descriptions of historical artifacts. Preparing well-organized content with historical context, origin, material details, and cultural significance requires strong research and writing skills. Traditional sources provide scattered information and do not generate ready-to-use, structured descriptions instantly.
2.	<b>Idea / Solution Description</b>	The Gemini Historical Artifact Description System is an AI-powered web application that generates structured artifact descriptions based on user input (Artifact Name, Historical Period, Word Count). Using Google Gemini AI, the system automatically produces a well-formatted description including Title, Origin, Material, Historical Context, and Cultural Significance. Users can instantly generate content and download it in Markdown format for academic or documentation use.
3.	<b>Novelty / Uniqueness</b>	Unlike traditional history websites that provide static information, this system dynamically generates customized, structured artifact descriptions using Generative AI. The uniqueness lies in combining AI-powered historical narration with structured formatting and export-ready Markdown generation, reducing manual research and writing effort.
4.	<b>Social Impact / Customer Satisfaction</b>	The platform assists students, educators, and researchers in quickly generating structured historical content. It improves productivity, supports academic learning, enhances digital documentation, and makes historical knowledge more accessible and engaging.
5.	<b>Business Model (Revenue Model)</b>	Potential revenue streams include: 1) Premium subscription for advanced AI features (longer descriptions, detailed analysis), 2) Educational institution partnerships, 3) API access for museums and heritage platforms, 4) Advertisements or sponsored educational content.
6.	<b>Scalability of the Solution</b>	The application is stateless and lightweight, allowing easy horizontal scaling via cloud deployment. Since AI processing is handled by the Gemini API, scalability depends on API limits and cloud infrastructure. The system can support increasing users by deploying multiple cloud instances.