

Project Design Phase
Proposed Solution Template

Date	17 February 2026
Team ID	LTVIP2026TMIDS24224
Project Name	Gemini Historical Artifact Description System
Maximum Marks	2 Marks

Proposed Solution Table

S.No.	Parameter	Description
1	Problem Statement (Problem to be solved)	Historians, students, museum curators, and content creators struggle to create accurate, structured, and engaging descriptions of historical artifacts due to limited access to reliable sources, lack of expertise, and time-consuming manual research.
2	Idea / Solution Description	Develop an AI-powered web application that generates detailed historical artifact descriptions using artifact name input and uploaded images. The system provides structured output, customizable word count, and interesting historical facts using a generative AI model.
3	Novelty / Uniqueness	The solution combines text-based and image-based artifact analysis in a single platform. It uses advanced generative AI to produce structured, historically contextual, and engaging descriptions quickly and efficiently.
4	Social Impact / Customer Satisfaction	Improves accessibility to historical knowledge for students, educators, and researchers. Reduces research time, enhances learning experience, and increases engagement with cultural and historical content.
5	Business Model (Revenue Model)	Freemium model: Basic features available for free. Premium subscription for advanced features such as longer descriptions, priority AI processing, and institutional access for museums and educational organizations.
6	Scalability of the Solution	Cloud-based architecture enables high scalability. The system can support increasing users through cloud infrastructure and API-based AI services without major performance degradation.

Proposed Solution Template		
S.No.	Parameter	Description
1	Problem Statement (Problem to be solved)	Users, including historians, students , and curators, struggle to create accurate, structured, and engaging descriptions of historical artifacts due to:
2	Idea / Solution description	Develop an AI-powered web application that generates detailed historical artifact descriptions from inputs like: <ul style="list-style-type: none"> • Artifact name • Word count • Uploaded artifact • Uploaded artifact image
3	Novelty / Uniqueness	Combines text and image-based analysis to enhance descriptive content. The solution uses Google's Gemini 1.5 Flash GenAI model for historically accurate and engaging outputs.
4	Social Impact / Customer Satisfaction	Enhances public and educational access to history by providing detailed, accurate, and engaging descriptions. Improves user engagement, with historical content, benefiting educators, students, and museums.
5	Business Model (Revenue Model)	Freemium Model: Free version with basic features and premium subscription for advanced features. Possible integration for academic and museum solutions, Integrative.
6	Business Model (Revenue Model)	Highly scalable due to cloud-based architecture. Can accommodate an increasing number of users with robust AI model and cloud infrastructure.
7	Scalability of the Solution	Highly scalable due to cloud-based architecture. Can accommodate an increasing number of users with robust AI model and cloud infrastructure.