

Project Design Phase Solution Architecture

Date	20 February 2026
Team ID	LTVIP2026TMIDS79258
Project Name	Gemini Historical Artifact Description
Maximum Marks	4 Marks

Solution Architecture:

The solution architecture of Gemini Historical Artifact consists of a Streamlit-based web application that collects user inputs such as an artifact image or textual description and validates them. The application then constructs a structured prompt based on the provided input and sends it to the Gemini Flash Lite generative AI model through an API call. The AI model analyzes the input and generates a structured artifact analysis report, including historical background, cultural significance, material details, and estimated time period. The generated content is then formatted and displayed to the user in a well-organized structure. The system can be deployed locally or on a cloud platform such as Streamlit Cloud for scalable access.

Example - Solution Architecture Diagram:

