Project Design Phase-I
Solution Architecture

Date	13 February 2026
Team ID	LTVIP2026TMIDS73001
Project Name	Gemini historical artifact description
Maximum Marks	4 Marks

Solution Architecture:

The solution architecture of the Gemini Historical Artifact System is designed to digitally preserve, manage, and provide access to historical artifacts from the Gemini space missions. The system begins with artifact data collection from various sources such as museums, NASA archives, historical documents, and digital libraries. This data is then processed and converted into digital format to ensure accuracy and proper organization.

Steps to be followed:-

1. Artifact Data Collection Layer

- Collect artifact information from museums, NASA archives, and digital libraries
- Gather artifact details such as name, mission, description, and images

2. Data Processing Layer

- Clean and organize collected artifact data
- Convert physical records into digital format
- Ensure data accuracy and proper classification

3. Artifact Database Layer

- Store artifact information in a centralized secure database
- Maintain artifact records, images, and preservation status
- Provide fast and secure data retrieval

4. Artifact Processing Module

- Analyze artifact data for classification and organization
- Manage artifact storage and retrieval

5. Application Layer (User Interface)

- Provide web-based interface for users
- Allow users to search and view artifact information
- Enable archivists and administrators to manage artifact records

6. User Layer

- Researchers access artifact data for research
- Students and educators use artifact information for learning
- Archivists upload and maintain artifact records
- Administrators manage system access and security

7. Output Layer

- Display artifact information clearly
- Provide preservation insights
- Support research, education, and historical documentation

Solution Architecture Diagram: