Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	31 January 2025
Team ID	LTVIP2026TMIDS81727
Project Name	Gemini historical artifact description
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Artifact Input	User can enter artifact name User can optionally enter historical period
FR-2	Description Customization	User can select word count (100–2000 words)
FR-3	AI Content Generation	System sends structured prompt to Gemini API System receives and displays AI-generated description
FR-4	Engagement Feature	Display random historical fact during loading
FR-5	UI & Theming	Museum-themed styled interface
FR-6	Error Handling	Display error message if API fails

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Simple and intuitive interface for students and general users.
NFR-2	**Security**	API key stored securely using environment variables (.env).
NFR-3	**Reliability**	System should consistently generate accurate responses from API.
NFR-4	**Performance**	Response should be generated within a few seconds depending on API speed.
NFR-5	**Availability**	Web application accessible 24/7 when deployed.
NFR-6	**Scalability**	Can handle multiple users and future feature expansion (multilingual, voice support).