

Project Design Phase-II

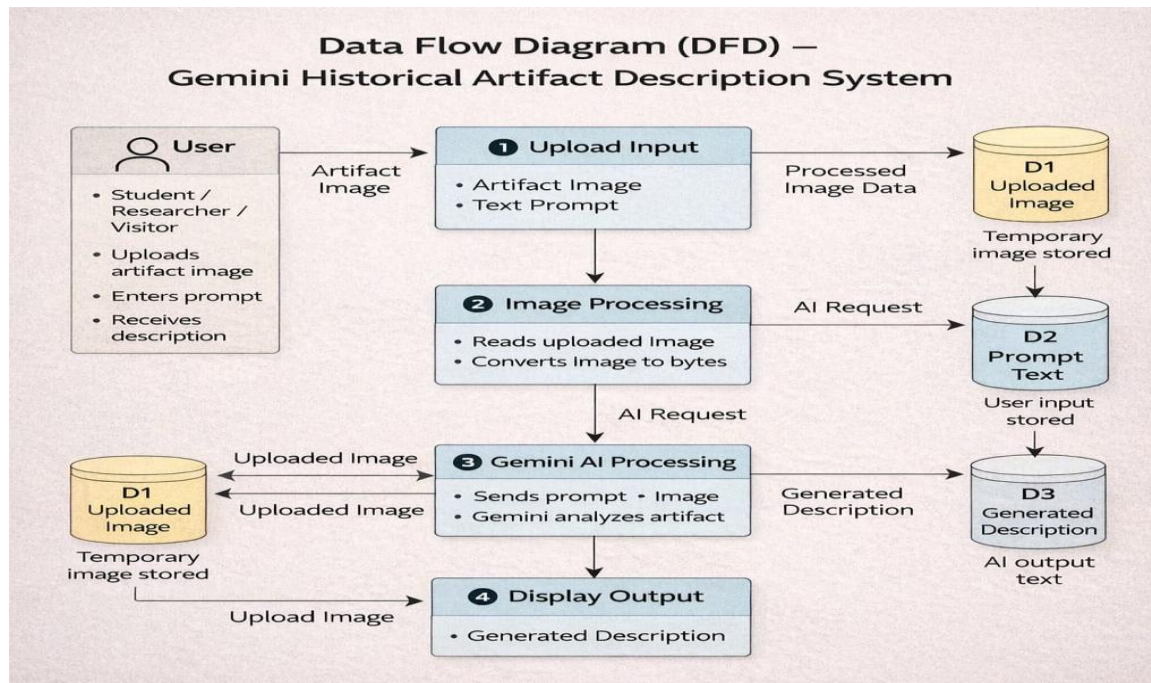
Data Flow Diagram & User Stories

Date	2 February 2026
Team ID	LTVIP2026TMID8993
Project Name	Gemini Historical Artifact Description
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example:



User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Web User – Student/Researcher)	Access Application	USN-1	As a user, I can open the web application in my browser.	Application loads successfully and home page is visible	High	Sprint-1
Customer (Web User)	Upload Image	USN-2	As a user, I can upload an image of a historical artifact.	Image preview is displayed after upload	High	Sprint-1
Customer (Web User)	Enter Prompt	USN-3	As a user, I can type an artifact name or description prompt.	Text input box accepts user input	High	Sprint-1
Customer (Web User)	Generate Description	USN-4	As a user, I can click “Generate Artifact Description” button.	AI generates and shows description on screen	High	Sprint-1
Customer (Web User)	View Result	USN-5	As a user, I can read the detailed historical description generated by AI.	Description includes origin, period, material, and significance	High	Sprint-1
Customer (Web User)	Interesting Fact	USN-6	As a user, I can see a historical fact while the system is processing.	Historical fact message appears during loading	Medium	Sprint-2
Customer (Web user)	Error Handling	USN-7	As a user, I get an error message if no image is uploaded.	System shows “No file uploaded” message	High	Sprint-1
Customer (Web User)	API Configuration	USN-8	As an admin, I can configure the Gemini API key securely.	API key stored in .env and system works	High	Sprint-1
Administrator	System Maintenance	USN-9	As an admin, I can monitor the application and fix errors.	App runs without crash and generates output	Medium	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer Care Executive	User Help	USN-10	As an admin, I can monitor the application and fix errors.	Users can successfully use the system after guidance	Low	Sprint-1