Project Design Phase-II
Data Flow Diagram & User Stories

Date	31 January 2026
Team ID	LTVIP2026TMIDS61478
Project Name	Gemini historical Artifact Description
Maximum Marks	4 Marks

Data Flow Diagram (DFD)

A Data Flow Diagram (DFD) shows how data moves through a system. It explains:

- **How data enters the system**

- **How data is processed**

- **Where data is stored**

- **How data leaves the system**

Example: Heart Disease Prediction System (Simplified DFD)

Level 0 (Context Diagram)

External Entity: User
Process: Heart Disease Prediction System
Data Store: Database

Flow:

1. **User → enters health details (age, BP, cholesterol, etc.)**

2. **System → processes data using ML model**

3. **System → stores data in Database**

4. **System → returns prediction result (Risk / No Risk) to User**

Level 1 DFD (Detailed)

External Entities:

- **User**
- **Admin**

Processes:

1. **User Registration**
2. **Login Authentication**
3. **Enter Health Data**
4. **Risk Prediction**
5. **Report Generation**

Data Stores:

- **User Database**
- **Patient Records**
- **ML Model**

Data Flow:

- **User → Registration → User Database**
- **User → Login → Authentication Process**
- **User → Health Data → Prediction Process → ML Model**
- **Prediction Result → Stored in Patient Records**
- **Result → Sent to User**

User Stories (Heart Disease Prediction System)

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Mobile User)	Registration	USN-1	As a user, I can register using email and password	User can access dashboard after registration	High	Sprint-1
		USN-2	As a user, I receive a confirmation email after registration	User receives email and confirms account	High	Sprint-1
		USN-3	As a user, I can register using Gmail	User can login using Gmail credentials	Medium	Sprint-2
	Login	USN-4	As a user, I can login using email and password	User successfully accesses dashboard	High	Sprint-1
	Health Data Entry	USN-5	As a user, I can enter my health details for prediction	System accepts valid inputs	High	Sprint-1
	Prediction	USN-6	As a user, I can view heart disease risk result	System shows Risk / No Risk result	High	Sprint-1
	Report Download	USN-7	As a user, I can download my prediction report	Report downloads in PDF format	Medium	Sprint-2
Customer (Web User)	Registration	USN-8	As a web user, I can register and login	User can access web dashboard	High	Sprint-1
Customer Care Executive	View Reports	USN-9	As an executive, I can view user reports	Executive can access reports	Medium	Sprint-2
Administrator	User Management	USN-10	As an admin, I can manage users	Admin can add/delete/disable users	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
	Model Management	USN-11	As an admin, I can update ML model	Updated model works correctly	Medium	Sprint-3