Project Design Phase-II

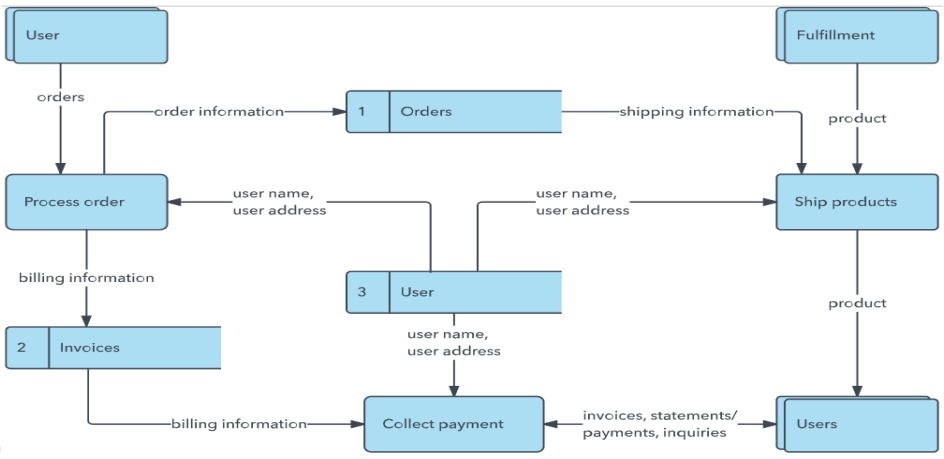
Data Flow Diagram & User Stories

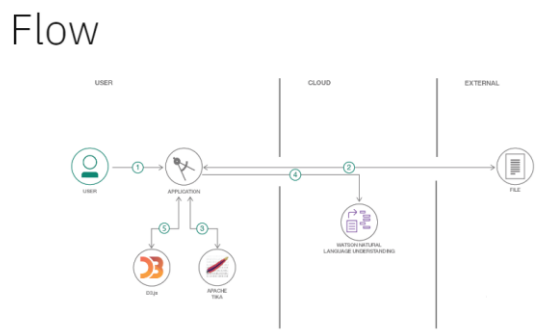
Date	27 june 2025
Team ID	LTVIP2025TMID59171
Project Name	HealthAI: Intelligent Healthcare Assistant Using IBM Granite
Maximum Marks	4 Marks

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: (Simplified)





1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLU for enrichment.
5. Enriched data is visualized in the UI using the D3.js library.

User Stories – Health AI

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 for the application by entering my email, password, and confirming my password.	I can access my account/dashboard	High	Sprint-1
	Registration	USN-2	As a user, I will receive a confirmation email once I have registered for the application.	I receive the confirmation email & can click to confirm	High	Sprint-1
	Registration	USN-3	As a user, I can register for the application through Facebook.	I can register & access the dashboard with Facebook login	Low	Sprint-2
	Registration	USN-4	As a user, I can register for the application through Gmail.	I can register and log in using my Gmail credentials	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email and password.	I can securely log in and view my dashboard	High	Sprint-1
	Dashboard	USN-6	As a user, I can view my health records, AI disease predictions,	I see updated data and AI predictions after login	High	Sprint-2

			and health graphs.			
	Health AI Chat	USN-7	As a user, I can chat with an AI to ask about my symptoms or health concerns.	AI responds with meaningful answers related to my health	High	Sprint-2
	Health Trends	USN-8	As a user, I can see graphs of my vital health parameters over time.	Graphs display trends for heart rate, BP, glucose, etc.	Medium	Sprint-3

| **Customer (Web User)** | Registration/Login/Dashboard | USN-9 | As a web user, I can register, login, and use all features similar to mobile. | Features work seamlessly on web version | High | Sprint-2 |
| | | Appointment Booking | USN-10 | As a user, I can book appointments with a doctor through the web dashboard. | Appointment is scheduled and confirmed | Medium | Sprint-3 |

| **Customer Care Executive** | Patient Management | USN-11 | As an executive, I can view and manage patient queries from the AI chat system. | I can respond or escalate unresolved issues | High | Sprint-2 |
| | | Report Generation | USN-12 | As an executive, I can download or email a summary of patient health data. | Reports are generated and sent correctly | Medium | Sprint-3 |

Administrator	User Management	USN-13	As an admin, I can manage user accounts (activate, deactivate, remove).	Admin can see all user actions and control access	High	Sprint-1
		Analytics	USN-14	As an admin, I can view overall analytics of AI performance and health trends.	I can monitor the system through graphs and reports	Medium	Sprint-3
		System Configuration	USN-15	As an admin, I can configure AI model versions, health thresholds, and set permissions.	Changes apply system-wide correctly	Medium	Sprint-3