

Project Design Phase-II

Data Flow Diagram & User Stories

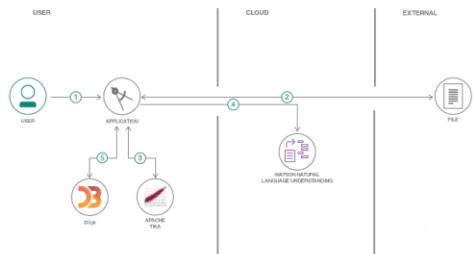
Date	31 January 2025
Team ID	LTVIP2026TMIDS87694
Project Name	EV Battery Performance and Range Monitoring System
Maximum Marks	4 Marks

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.

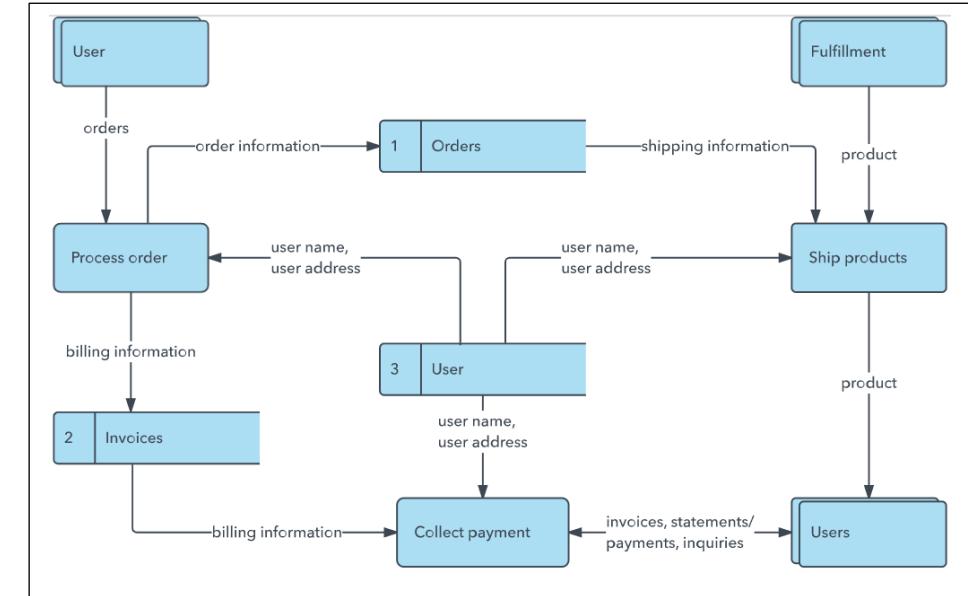
Example: (Simplified)

Flow



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.

Example: DFD Level 0 (Industry Standard)



User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story No	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Mobile User)	Registration	USN-1	As a user, I can register using email and password	User account created; dashboard accessible	High	Sprint-1
Customer (Mobile User)	Login	USN-2	As a user, I can log in using email and password	User successfully logs into application	High	Sprint-1
Customer (Mobile User)	Dashboard	USN-3	As a user, I can view charging history and battery details	Dashboard shows charging time, battery %, range	High	Sprint-1
Customer (Mobile User)	Data Visualization	USN-4	As a user, I can see graphs for charging patterns and range analysis	Charts display correctly; update dynamically	High	Sprint-2
Customer (Web User)	Data Upload	USN-5	As a user, I can upload EV dataset for analysis	Valid dataset uploaded; results shown	High	Sprint-2
Customer (Web User)	Performance Comparison	USN-6	As a user, I can compare EV performance metrics	Comparison charts generated correctly	Medium	Sprint-2
Customer Care Executive	Issue Management	USN-7	As a support executive, I can view and respond to user issues	Support panel shows complaints and responses	Medium	Sprint-3

User Type	Functional Requirement (Epic)	User Story No	User Story / Task	Acceptance Criteria	Priority	Release
Administrator	User Management	USN-8	As an admin, I can manage user accounts	Admin can add, update, delete users	High	Sprint-1
Administrator	System Monitoring	USN-9	As an admin, I can monitor system usage and analytics	Admin dashboard shows system statistics	Medium	Sprint-3