

Project Design Phase-II Data Flow Diagram & User Stories

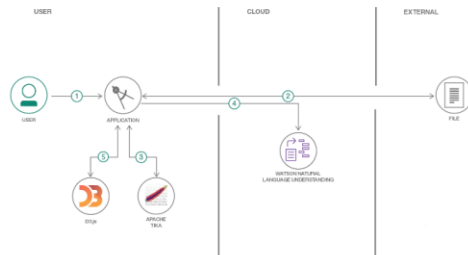
Date	31 January 2025
Team ID	LTVIP2025TMID46399
Project Name	Flight Finder
Maximum Marks	4 Marks

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.

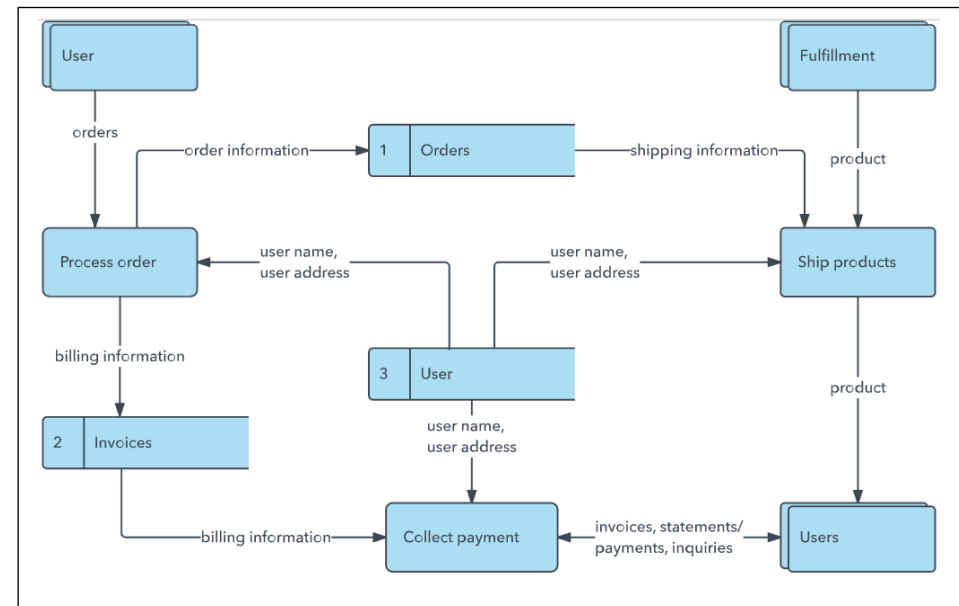
Example: [\(Simplified\)](#)

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)



Flight finder app:

Flowchart Structure (simplified)

1. Start



2. User Opens App



3. User Registers or Logs In



4. Searches Flights

- **Inputs: Source, Destination, Date, Class**



5. Applies Filters

- **Filters: Price range, Airline, Direct/Layover**



6. Selects a Flight Option



7. Chooses Seat

- **Interactive seat map**



8. Makes Payment

- **Via secure payment gateway**



9. Booking Confirmation Displayed

- **E-ticket generated**



10. End

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Web user)	Registration	USN-1	As a user, I can register for the application using email and password	I can access my dashboard after successful registration	High	Sprint-1
		USN-2	As a user, I receive a confirmation email upon successful registration	I receive and click on the confirmation email	High	Sprint-1
		USN-3	As a user, I can register using LinkedIn	I am redirected to dashboard after LinkedIn login	Medium	Sprint-2
		USN-4	As a user, I can register using Gmail	I can register and get redirected to dashboard via Gmail	Medium	Sprint-1
	Login	USN-5	As a user, I can log in using email and password	I can successfully log in and access my dashboard	High	Sprint-1
	Flight Search	USN-6	As a user, I can search for flights based on destination, date, and class	Search results are displayed as per entered criteria	High	Sprint-2
		USN-7	As a user, I can filter flights by airline, stops, price, and departure time	Filtered results are shown instantly	High	Sprint-2
	Booking	USN-8	As a user, I can book a flight by selecting an available option and filling passenger info	I receive booking confirmation and e-ticket	High	Sprint-3
	Seat Selection	USN-9	As a user, I can choose my seat using a visual seat map	I can select and reserve my preferred seat	Medium	Sprint-3

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Customer Care Exec. Administrator	Payment	USN-10	As a user, I can pay securely through integrated payment gateway	Payment goes through and I receive booking confirmation	High	Sprint-3
	Booking Management	USN-11	As a support agent, I can view and manage user bookings	I can see user booking data and assist with cancellations/changes	Medium	Sprint-4
	Admin Dashboard	USN-12	As an admin, I can add, update, and delete flight details	Flights are properly updated in the database	High	Sprint-2
	Booking Overview	USN-13	As an admin, I can view all bookings and generate daily/weekly reports	Accurate reports are generated	Medium	Sprint-4
	User Management	USN-14	As an admin, I can view registered users and manage their access	User data is accessible and editable	Medium	Sprint-4