

Project Design Phase-II Data Flow Diagram & User Stories

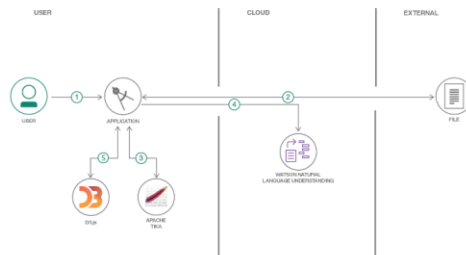
Date	28 June 2025
Team ID	LTVIP2025TMID60682
Project Name	Sustainable Smart City Assistant Using IBM Granite LLM
Maximum Marks	4 Marks

Data Flow Diagrams:

A **Data Flow Diagram (DFD)** is a simple visual tool that shows how data moves through a system, where it is stored, or changed, where it goes, and where it is stored. In the context of the **Sustainable Smart City Assistant**, data (like user queries or city data) are sent to the assistant, how the AI model (IBM Granite LLM) processes the information, and how the results (like eco-friendly tips or suggestions) are sent back to the user. It gives a clear picture of the system's flow and helps in planning and building it better.

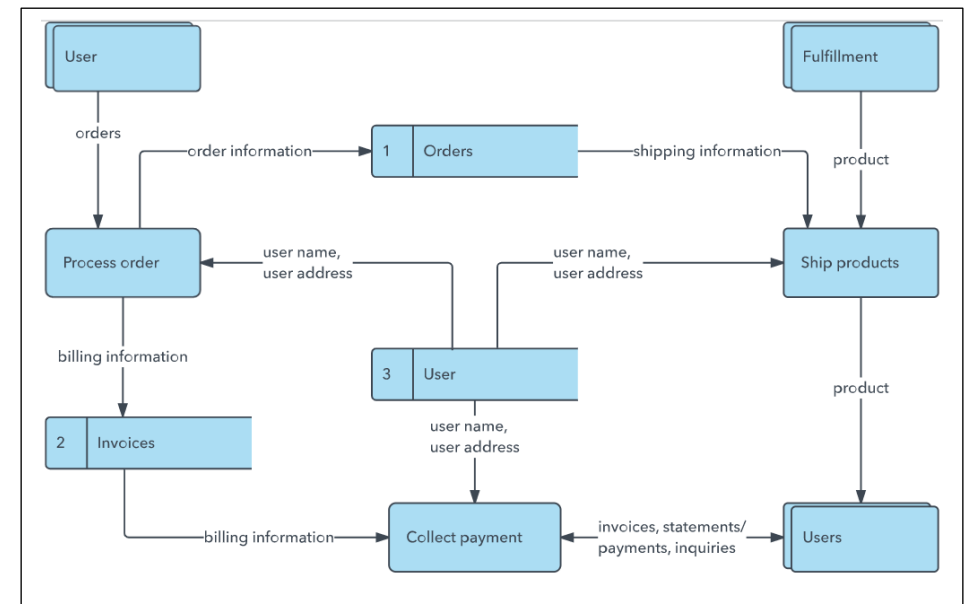
Example: (Simplified)

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 Number	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the app by entering my email, password, and confirm it.	I can access my account/dashboard after registration.	High	Sprint-1
	Registration	USN-2	As a user, I will receive a confirmation email after registering.	I receive an email and can click a link to confirm my account.	High	Sprint-1
	Registration	USN-3	As a user, I can register using Facebook.	I can log in and access my dashboard using Facebook login.	Low	Sprint-2
	Registration	USN-4	As a user, I can register using Gmail.	I can log in and access the dashboard using Gmail login.	Medium	Sprint-1
	Login	USN-5	As a user, I can log in with my email and password.	I can successfully log in and view my dashboard.	High	Sprint-1