Project Design Phase-II
Data Flow Diagram & User Stories

| Date	27 June 2025
Team ID	LTVIP2025TMID32124
Project Name	Sustainable Smart City Assistant Using IBM Granite LLM
Maximum Marks	4 Marks

DATA FLOW DIAGRAMS:

A Data Flow Diagram (DFD) for the Sustainable Smart City Assistant visually represents how user queries and complaints flow through the system—entering via the Gradio interface, processed by IBM Granite LLM, and routed to the appropriate city departments. It illustrates data input, transformation, and output for efficient smart city management.

Example:
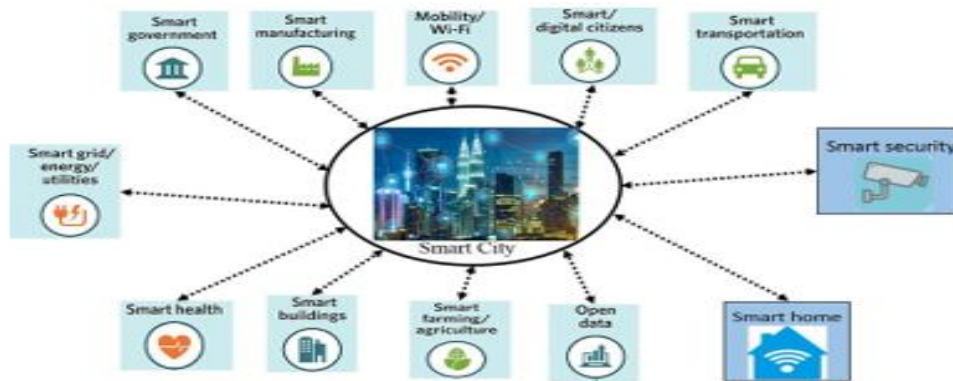
Simplified smart city assistant data flow diagram
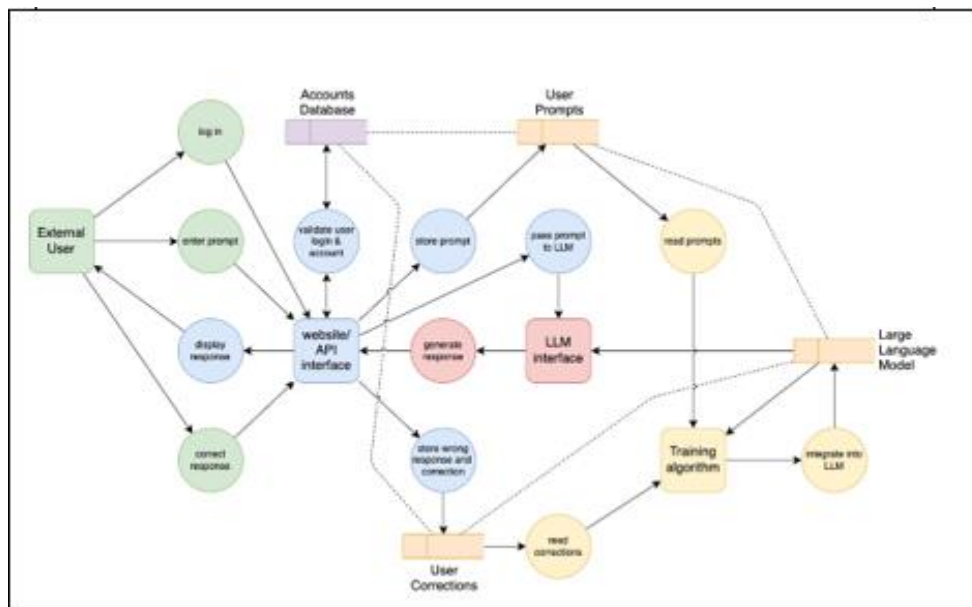
Data Flow Diagram(DFD) for Smart City Assistant

User Stories

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
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		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
		USN-4	As a user, I can register for the application through Gmail	I can register and access the app using Gmail credentials.	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I am redirected to the dashboard upon successful login.	High	Sprint-1
	Dashboard	USN-6	As a user, I can access assistant modes like Eco-Query or Complaint Resolver.	Mode selection and interface load successfully.	High	Sprint-2
Customer (Web user)	Web Interface Access	USW-1	As a web user, I can log in and use the assistant via browser.	I can access the web dashboard and interact with the assistant.	High	Sprint-1
	Assistant Querying	USW-2	As a user, I can ask sustainability-related questions via the web UI.	AI-generated responses are displayed promptly.	High	Sprint-2
	Complaint Resolver	USW-3	As a user, I can submit civic issues via the web interface.	The complaint is categorized and routed automatically.	High	Sprint-2
Customer Care Executive	Complaint Handling	USCCE-1	As a care executive, I can view all civic complaints submitted by users.	A list of complaints is displayed with filters.	High	Sprint-2
	Complaint Status Update	USCCE-2	As a care executive, I can update the complaint status (e.g., in progress, resolved).	Users can see updated complaint status.	Medium	Sprint-3
Administrator	User Management	USA-1	As an admin, I can manage user accounts (activate/deactivate users).	Admin can control access for all user roles.	High	Sprint-3
	Assistant Configuration	USA-2	As an admin, I can configure assistant logic and department mappings.	The changes are reflected in assistant responses.	Medium	Sprint-4