

Project Design Phase-II

Data Flow Diagram & User Stories

Date	27 June 2025
Team ID	LTVIP2025TMID29301
Project Name	“Citizen AI – Intelligent Citizen Engagement Platform 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.

DFD Level 0 – Context Diagram

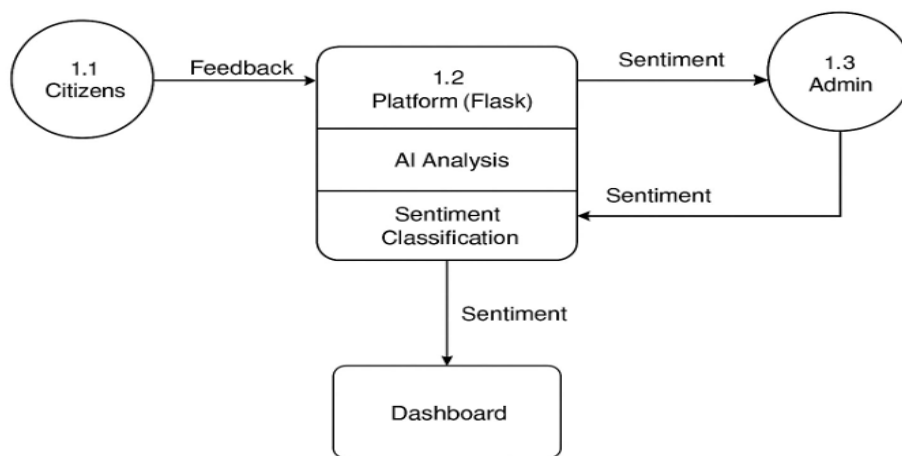
- External Entities: Citizens, Government Admin, IBM Granite LLM

- Processes:

1. Accept Citizen Queries
2. Analyze Feedback
3. Perform Sentiment Analysis
4. Route to Dashboard
5. Generate Responses

DFD Level 1 – Decomposition Example

- 1.1 Accept Input (Chat/Feedback)
- 1.2 Process Input using IBM Granite
- 1.3 Perform Sentiment Classification
- 1.4 Visualize on Dashboard



DFD Level 1 – Processes

User Stories

User Type	Functional Requirement (Epic)	User Story No.	User Story / Task	Acceptance Criteria	Priority	Release
Citizen (Web User)	Registration/Login	USN-1	As a citizen, I can register/login using email credentials.	I can access chat and feedback modules after login.	High	Sprint-1
Citizen (Web User)	Chat Assistant	USN-2	As a citizen, I can ask questions via chat and receive AI responses.	I get context-aware responses from the Granite model.	High	Sprint-1
Citizen (Web User)	Feedback/Concern Submission	USN-3	As a citizen, I can report civic issues through a form.	I see a confirmation message after submission.	High	Sprint-2
Citizen (Web User)	Sentiment Feedback	USN-4	As a citizen, I can submit feedback which will be analyzed for sentiment.	I see the sentiment tag (positive/neutral/negative).	Medium	Sprint-2
Admin (Government User)	Dashboard	USN-5	As an admin, I can view sentiment reports and recent citizen issues on a dashboard.	I can view metrics and filter citizen feedback records.	High	Sprint-3
Admin (Government User)	Authentication	USN-6	As an admin, I can securely log in and access only authorized pages.	I'm redirected to the dashboard after successful login.	Medium	Sprint-3