

Project Design Phase-II

Data Flow Diagram & User Stories

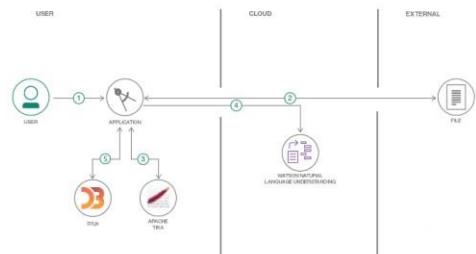
Date	17 Feb 2026
Team ID	LTVIP2026TMIDS66459
Project Name	Visualization Housing /market Trends
Maximum Marks	4 Marks

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

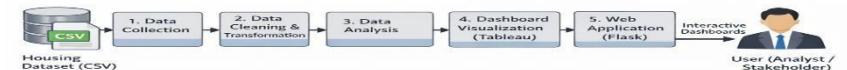


1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLU for enrichment.
5. Enriched data is visualized in the UI using the D3.js library.

Housing Market Dashboard – Level 0 DFD
Context Diagram



Housing Market Dashboard – Level 1 DFD
Detailed Diagram



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
Student	Registration	VHMTAS-1	As a user, I can register for the application by entering my email, password, and confirming my password.	User can successfully create an account and access the dashboard	High	Sprint-1
		VHMTAS -2	As a user, I will receive a confirmation email after registration.	Confirmation email is received and account is verified	High	Sprint-1
		VHMTAS -3	As a user, I can register using Facebook login.	User can log in and access dashboard via Facebook	Low	Sprint-2
		VHMTAS -4	As a user, I can register using Gmail login.	User can log in and access dashboard via Gmail	Medium	Sprint-1
	Login	VHMTAS -5	As a user, I can log in using my email and password.	User is logged in and redirected to dashboard	High	Sprint-1
	Dashboard Access	VHMTAS-6	As a user, I want to view housing market KPIs on the dashboard.	Dashboard displays KPIs correctly	High	Sprint-1

	Data Visualization	VHMTAS -7	As a user, I want to view renovation impact on house prices.	Chart loads and shows renovated vs non-renovated prices	High	Sprint-1
		VHMTAS -8	As a user, I want to see house age distribution.	Pie chart displays age groups clearly	Medium	Sprint-1
User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
		VHMTAS -9	As a user, I want to compare bedrooms, bathrooms, and floors by house age.	Bar chart shows correct feature comparison	Medium	Sprint-2
Executive	User Support	VHMTAS -10	As a support executive, I want to help users with dashboard access issues.	User issues are resolved successfully	Medium	Sprint-2
Administrator	Data Management	VHMTAS -11	As an admin, I want to upload and manage housing datasets.	Dataset is uploaded and reflected in dashboard	High	Sprint-1
	Dashboard Management	VHMTAS -12	As an admin, I want to manage dashboard content and visibility.	Dashboard updates are visible to users	Medium	Sprint-2