

Project Design Phase-II Data Flow Diagram & User Stories

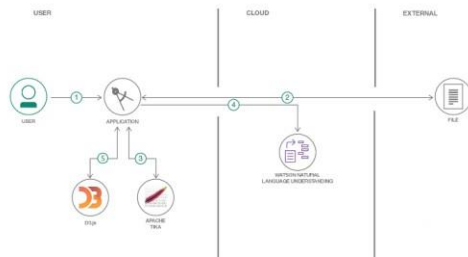
Date	25 June 2025
Team ID	LTVIP2025TMID51671
Project Name	Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau
Maximum Marks	4 Marks

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.

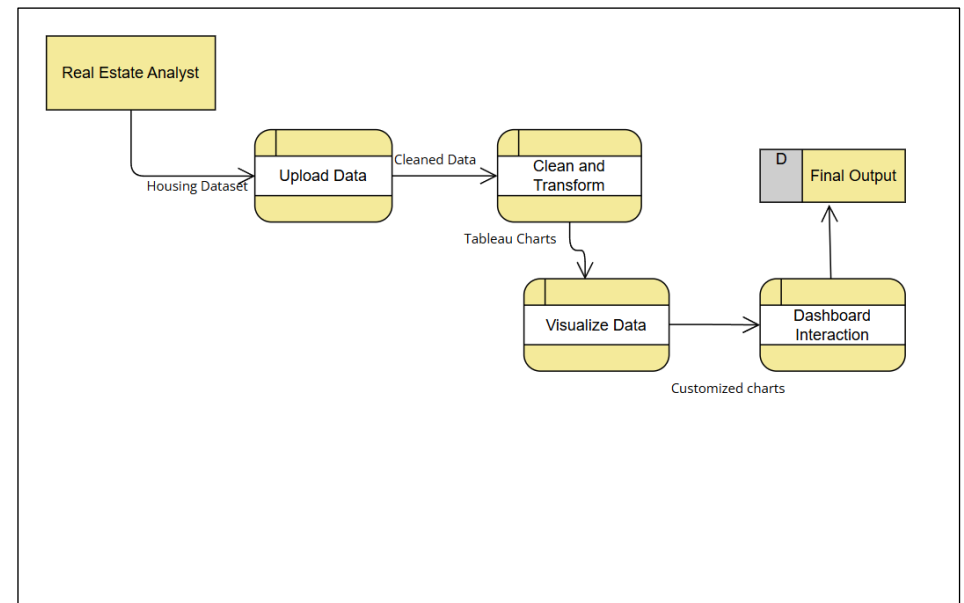
Example: [\(Simplified\)](#)

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)



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
Analyst	Filter Housing Data	USN-1	As an analyst, I want to filter houses by renovation year, age, or features.	I can apply filters in the dashboard and see updated visualizations	High	Sprint-1
Marketing Researcher	Compare Feature-Based Trends	USN-2	As a researcher, I want to compare sale prices based on house features	I can compare charts by bathrooms, bedrooms, and renovation status	High	Sprint-2
Analyst	Visualize Data in Tableau	USN-3	As an analyst, I want to generate charts and grouped bar graphs in Tableau	Visuals load with proper labels, legends, and insights.	High	Sprint-1
Executive	Export Reports and Summary Insights	USN-4	As a decision maker, I want to export charts as images or PDFs	Reports are exportable from Tableau and include summary insights	Medium	Sprint-3