

Project Design Phase-II Data Flow

Diagram & User Stories

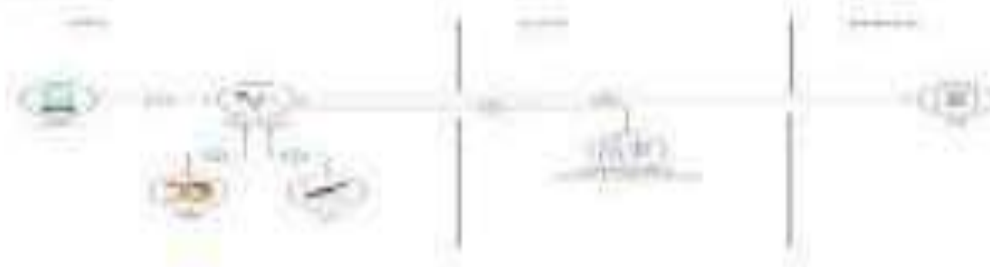
Date	18 January 2025
Team ID	LTVIP2025TMID48901
Project Name	Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau
Maximum Marks	4 Marks

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.

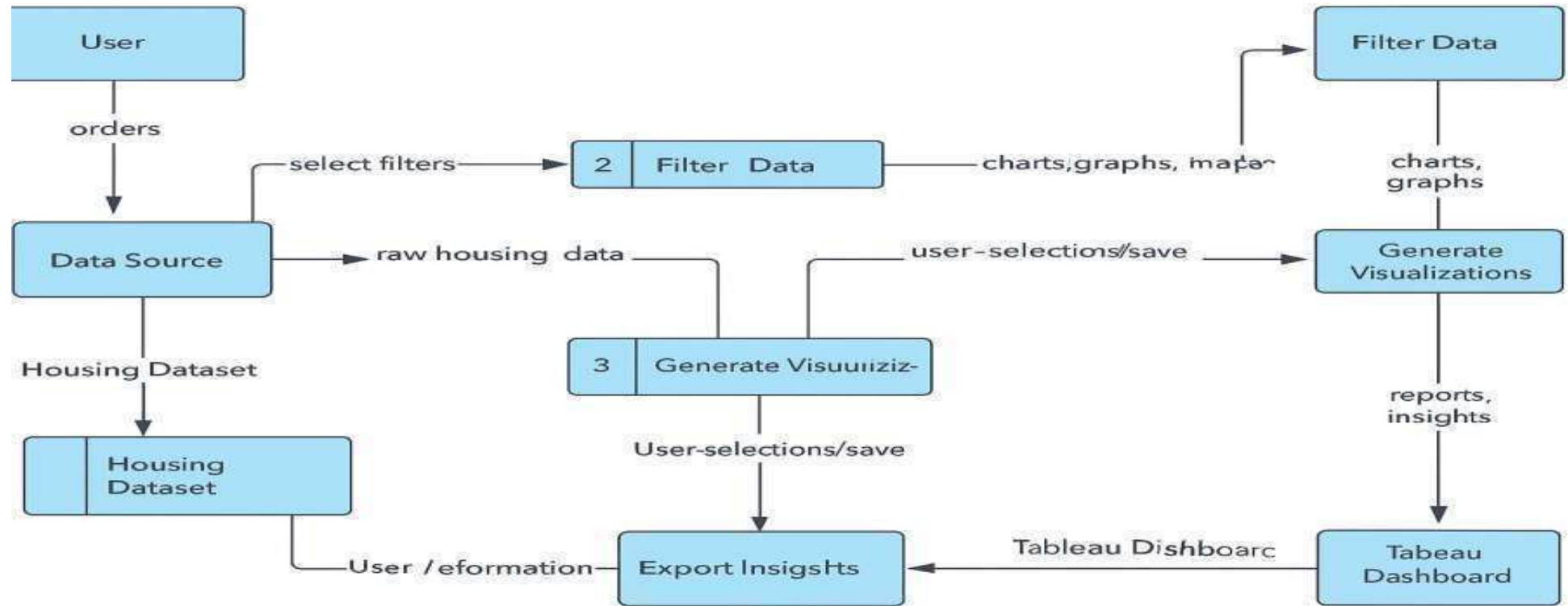
Example: [Simplified](#)

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 Diagram for Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau



User Stories:-

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Home Buyer	View Listings and Prices	USN-1	As a home buyer, I want to filter listings by city and price rang	I can see relevant houses only for my budget	High	Sprint-1
Home Buyer	Visual Comparison	USN-2	As a home buyer, I want to compare house prices across cities	I can see a chart comparing at least 2 cities	High	Sprint-1
Real Estate Analyst	Analyze Trends	USN-3	As an analyst, I want to see price trends over time for a region	I can view a line graph of historical price trends	High	Sprint-2
Real Estate Analyst	Export Data	USN-4	As an analyst, I want to export visual insights into a PDF	I can download visuals as a PDF	Medium	Sprint-2

Home Buyer / Analyst	Access Saved View	USN-5	As a user, I want to save and return to my filtered dashboard later	I can return and see my previously saved filters	Low	Sprint-3
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