Project Design Phase-II
Data Flow Diagram & User Stories

Date	26 January 2025
Team ID	LTVIP2025TMID60628
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:

Level 0 (Context Diagram) - ABC Company Housing Market Analysis System
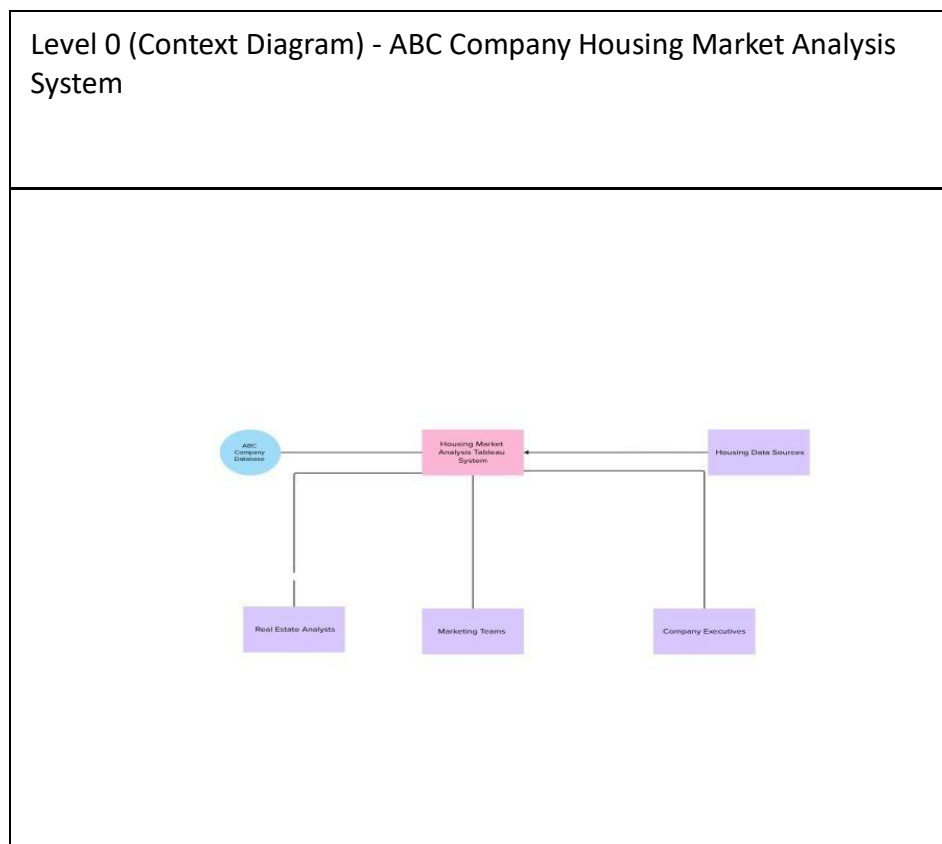
User Stories

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
Real Estate Analyst	Data Overview Dashboard	USN-1	As a real estate analyst, I can view a comprehensive data overview dashboard showing total records, average sales price, and data quality indicators	I can see KPI cards with key metrics, data summary statistics, and quality indicators clearly displayed	High	Sprint-1
	Data Overview Dashboard	USN-2	As a real estate analyst, I can filter the overview dashboard by date range, property type, and location	I can apply multiple filters and see the dashboard update in real-time with relevant data	High	Sprint-1
	Renovation Analysis	USN-3	As a real estate analyst, I can analyze the relationship between renovation age and sales prices through interactive visualizations	I can view histogram of years since renovation, scatter plots showing price impact, and ROI calculations	High	Sprint-1
	Feature Analysis	USN-4	As a real estate analyst, I can explore correlations between property features (bathrooms, bedrooms, floors) and house age	I can view matrix charts, heatmaps, and multiattribute comparisons with drill-down capabilities	High	Sprint-2
Marketing Team	Age Distribution Analysis	USN-5	As a marketing team member, I can understand house age distribution by renovation status to identify target segments	I can view pie charts and donut charts showing age groups with clear renovation status indicators	High	Sprint-1
	Renovation Analysis	USN-6	As a marketing team member, I can identify recent renovation trends to inform marketing strategies	I can view trend lines, recent renovation patterns, and market opportunity insights	Medium	Sprint-2

	Dashboard Integration	USN-7	As a marketing team member, I can access marketing-specific dashboard views with relevant insights and recommendations	I can view customized dashboard with buyer preference insights and competitive analysis	Medium	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Company Executive	Dashboard Integration	USN-8	As a company executive, I can view high-level summary dashboard with key business insights and strategic recommendations	I can access executive summary with KPIs, strategic insights, and actionable recommendations in under 30 seconds	High	Sprint-1
	Renovation Analysis	USN-9	As a company executive, I can understand ROI impact of renovations on property values for investment decisions	I can view ROI calculator results, investment recommendations, and market positioning analysis	High	Sprint-2
	Dashboard Integration	USN-10	As a company executive, I can export executive reports for board presentations and strategic planning	I can generate PDF reports, export charts as images, and schedule automated report delivery	Medium	Sprint-3
Real Estate Analyst	Data Integration	USN-11	As a real estate analyst, I can upload new housing data files and have them automatically validated and integrated	I can upload CSV/Excel files, see data validation results, and view integration status	High	Sprint-1
	Interactive Features	USN-12	As a real estate analyst, I can drill down from summary views to detailed property-level data	I can click on any chart element and navigate to detailed views with relevant filters applied	High	Sprint-2
Marketing Team	Export & Sharing	USN-13	As a marketing team member, I can export specific visualizations for client presentations and marketing materials	I can export charts as high-resolution images, save custom views, and share dashboard links	Medium	Sprint-2

Company Executive	Performance Monitoring	USN-14	As a company executive, I can monitor system performance and user adoption metrics	I can view system usage analytics, performance metrics, and user engagement reports	Low	Sprint-3
All Users	User Access	USN-15	As a system user, I can access roleappropriate dashboard views based on my user type and permissions	I can login and see only the dashboards and features relevant to my role (Analyst/Marketing/Executive)	High	Sprint-1
	Mobile Access	USN-16	As a system user, I can access key dashboard insights on mobile devices for onthe-go analysis	I can view responsive dashboard layouts on mobile with core functionality maintained	Low	Sprint-3