

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	24 JUNE 2025
Team ID	LTVIP2025TMID47526
Project Name	Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Data Import	The system should allow the user to upload or connect to housing datasets in formats like CSV, Excel, or databases (SQL).
FR-2	Time Series Visualization	The dashboard should visualize sale price trends over Time .
FR-3	Geographic Visualization	Display a map view showing sale prices and density across different regions
FR-4	Dashboard Sharing	Users should be able to export dashboards (PDF) or share online via Tableau Public or Server.
FR-5	Comparative Analysis	Allow the user to compare housing features, such as price vs square footage using scatter plots.
FR-6	Time Series Visualization	The dashboard should visualize sale price trends over Time .

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Performance	Dashboards must load within 3–5 seconds even with filters applied.
NFR-2	Scalability	The dashboard must handle larger datasets efficiently without crashing or lag.
NFR-3	Responsiveness	Dashboard layout should be usable on laptops and projectors during presentations.
NFR-4	Security & Privacy	The system should protect sensitive data and follow privacy regulations if address-level or user data is used.

NFR-5	Usability	The dashboard must be intuitive , easy to navigate, and require minimal training.
NFR-6	Data Accuracy	The system must ensure clean, accurate, and regularly updated data sources.

