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

Date	20 june 2025
Team ID	LTVIP2025TMID50297
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 Upload	Upload housing dataset in CSV/Excel format Connect to external data sources (e.g., SQL, cloud data)
FR-2	Data Cleaning & Transformation	Remove duplicates Handle missing values Transform date and numeric fields
FR-3	Data Visualization & Exploration	Create charts (bar, line, scatter) Build dashboards with filters Use geographic maps to visualize housing prices
FR-4	Report Sharing & Collaboration	Publish dashboards to Tableau Server Set permissions for stakeholders Enable exporting reports to PDF/Excel

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The dashboards should be intuitive, with clear navigation, filters, and visual cues for easy analysis.
NFR-2	Security	Only authorized users can access or modify the dashboards and data; role-based access control applied.
NFR-3	Reliability	The Tableau server must maintain consistent data updates with minimal downtime and data consistency.
NFR-4	Performance	Dashboards should load within 3 seconds for standard filters and data sizes.
NFR-5	Availability	Tableau dashboards should be available at least 99% of the time during business hours.
NFR-6	Scalability	The system should support future growth, handling larger datasets and more users without performance loss.