

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

Date	27 June 2025
Team ID	LTVIP2025TMID48073
Project Name	visualizing housing market trends
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 and Integration	Upload dataset from user system Connect Tableau to data source
FR-2	Data Exploration and Filtering	Apply filters on flat area, renovation status, house age, sale price
FR-3	Visualization of Housing Metrics	Show charts: Histogram, Pie Chart, Scatter Plot, Stacked Bar
FR-4	Summary Metrics	Show KPIs: Average Sale Price, Total Count, Basement Area
FR-5	Recommendation Generation	Suggest ideal house types (size, renovation status, location)
FR-6	User Storyline & Dashboard View	Create Tableau Story with sequential insights

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Simple dashboard navigation and chart interactivity for users
NFR-2	Security	Role-based access and dataset protection
NFR-3	Reliability	Dashboard must refresh with new uploads without errors
NFR-4	Performance	Visuals load in under 3 seconds for datasets < 25,000 rows
NFR-5	Availability	Accessible 24/7 via Tableau Public or integrated portal
NFR-6	Scalability	Can support additional visualizations and filters without redesign