

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

Date	23 June 2025
Team ID	LTVIP2025TMID50341
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	Ability to upload and read housing datasets (CSV/Excel)
FR-2	Data Cleaning & Transformation	Transform raw data for analysis (e.g., derive years since renovation, house age)
FR-3	Dashboard Visualization	Visualize total sales, average price, and square footage
FR-4	Interactive Filtering	Enable filters for renovation years, bathrooms, bedrooms, and floors
FR-5	Feature-wise Distribution	Charts showing how features (e.g., bathrooms) vary with house age
FR-6	Storytelling & Insights	Present scenario-based visual storytelling (sales trends, renovation impact, etc.)

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Easy-to-use and intuitive Tableau dashboards for stakeholders
NFR-2	<b>Security</b>	Data privacy maintained during import and dashboard sharing
NFR-3	<b>Reliability</b>	System consistently provides accurate insights without crashes
NFR-4	<b>Performance</b>	Visualizations load quickly even with large datasets
NFR-5	<b>Availability</b>	Dashboards and stories available 24/7 for internal users
NFR-6	<b>Scalability</b>	Supports future expansion to include more data features