

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	25 June 2025
Team ID	LTVIP2025TMID48466
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 Ingestion and Cleaning	Import housing dataset (CSV) Handle missing/duplicate values Calculate house age and years since renovation
FR-2	Feature Segmentation	Categorize by bedrooms, bathrooms, floors, condition, grade, view, waterfront
FR-3	User Interactivity	Filtering by year, view, renovation status Tooltips and hover details Drill-down features
FR-4	Dashboard Updates and Alerts	Schedule data refreshes Set alerts for price or feature trends
FR-5	Insight Generation	Compare renovated vs non-renovated homes Identify trends by grade, lot size, etc.
FR-6	Usability and Onboarding	Include glossary for features Onboarding instructions Scenario-wise navigation aid

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The dashboard should be user-friendly, with intuitive layout and filters
NFR-2	Security	Data should be securely handled, and access should be controlled for stakeholders
NFR-3	Reliability	The solution should consistently produce accurate, up-to-date visualizations
NFR-4	Performance	Dashboards must load within 3–5 seconds for standard dataset size
NFR-5	Availability	Tableau dashboards should be accessible to users 24/7 with minimal downtime
NFR-6	Scalability	The system should handle additional housing

		data entries without performance drop
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