

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

Date	9 Aug 2025
Team ID	PNT2025TMID14540
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 dataset (CSV/Excel) Validate file type/format
FR-2	Data Cleaning & Preparation	Handle missing/null values Create calculated fields
FR-3	Visualization	Generate charts: house age, renovation, features
FR-4	Dashboard Interaction	Add filters (year, bedrooms) Allow download/export
FR-5	Dashboard Testing	Test load time and performance Verify filter responsiveness
FR-6	Dashboard Publishing	Publish on Tableau Public Enable embed/share features

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Dashboard must be user-friendly, with clear navigation and interactive filters
NFR-2	Security	Uploaded data must be protected from unauthorized access
NFR-3	Reliability	System should display accurate and consistent visualizations
NFR-4	Performance	Dashboards should load within 2 seconds with filters applied
NFR-5	Availability	Dashboard should be accessible online 24/7 via Tableau Public
NFR-6	Scalability	The system must support future data expansion or new visualization requirements