

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

Date	31 January 2025
Team ID	Team ID : PNT2025TMID09489
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	User Registration	Registration through Form
		Registration through Gmail
		Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email
		Confirmation via OTP
FR-3	User Login	Login via Email & Password
		Login via Gmail
		Login via LinkedIn
FR-4	Dashboard Visualization	View Price Trends (Line/Bar Chart)
		View Region-wise Insights (Map/Tree Map)
		View Renovation Impact on Price (Scatter Plot)
FR-5	Data Filtering & Interaction	Filter by City, Year, Property Type
		Interactive Tooltips on Hover
FR-6	Export Features	Export Dashboard to PDF/Image
		Download Raw Dataset (CSV)
FR-7	User Support & Feedback	Raise a Support Request
		Submit Feedback or Suggestions
FR-8	Admin Controls	Manage User Roles & Permissions
		Monitor Usage Logs & Data Changes

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The application should have a user-friendly interface with intuitive navigation for both mobile and web users.
NFR-2	Security	User data must be protected through encryption, secure authentication, and role-based access control.
NFR-3	Reliability	The system should function correctly and consistently under expected conditions.
NFR-4	Performance	Dashboards and visualizations should load within 3 seconds under normal usage.
NFR-5	Availability	The system should be accessible 24/7 with minimal downtime (99.9% uptime).
NFR-6	Scalability	The system should handle increasing numbers of users and datasets without performance degradation.