

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

Date	25-7-2025
Team ID	PNT2025TMID08397
Project Name	Visualizing Housing Market Trends Using Tableau for ABC Company
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	Data Upload	Data Analyst can upload transformed housing data (.CSV)
FR-4	Data Cleaning & Transformation	Handle missing values, compute house age, renovation status, structural formatting
FR-5	Dashboard Visualization	Visualize trends in sale price, age distribution, renovation count, condition metrics
FR-6	Trend Filtering & Drill-down	Filter dashboards based on bedroom count, house condition, renovation type
FR-7	Insight Export	Marketing Manager can download visual reports in PDF or image format
FR-8	User Story Access Logging	Log all user interactions with story filters, charts, and downloads

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 intuitive and interactive using filters, legends, and tool
NFR-2	Security	
NFR-3	Reliability	System should handle corrupted/missing values and visualize only verified entries
NFR-4	Performance	Dashboard loading time should not exceed 3 seconds on standard devices
NFR-5	Availability	Dashboard should be accessible 24/7 for stakeholders

NFR-6	Scalability	System must handle at least 50,000 rows without performance degradation
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