

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

Date	31 January 2026
Team ID	LTVIP2026TMIDS28502
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 Collection	Import housing dataset (CSV file) into Tableau
		Verify dataset structure and column data types
		Ensure dataset is properly loaded for visualization
FR-2	Data Preparation	Clean and organize dataset for visualization
		Identify dimensions and measures in Tableau
		Create calculated fields if required
FR-3	Data Visualization	Create KPI indicators such as total records, average sale price, and basement area
		Create charts such as bar charts, pie charts, and feature comparison charts
		Apply filters to enable interactive analysis
FR-4	Dashboard and Story Creation	Combine visualizations into interactive dashboard
		Create Tableau Story to present insights step-by-step
		Format dashboard for clarity and usability
FR-5	Dashboard Publishing and Sharing	Publish dashboard to Tableau Public
		Generate public dashboard link
		Integrate dashboard with web application using Flask

Non-functional Requirements:

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

NFR No.	Non-Functional Requirement	Description
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NFR-1	Usability	The dashboard should be user-friendly, interactive, and easy to understand for users with basic knowledge of data analysis.
NFR-2	Security	The system should ensure safe handling of dataset files and secure access to the dashboard through Tableau Public.
NFR-3	Reliability	The dashboard should display accurate visualizations based on the dataset without errors or incorrect data representation.
NFR-4	Performance	The dashboard should load quickly and respond efficiently to filters and user interactions.
NFR-5	Availability	The published dashboard should be accessible anytime through Tableau Public and web integration.
NFR-6	Scalability	The system should support addition of new datasets and visualizations without affecting existing functionality.