Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	28 June 2025
Team ID	LTVIP2025TMID51430
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	Collect sale price data through APIs or web scraping.
FR-2	Data Cleaning and Preparation	Clean data using scripts or Tableau Prep for analysis.
FR-3	Visualization of Sale Prices	Create visualizations for sale prices by region or time period.
FR-4	Feature Analysis	Analyze features such as square footage, number of bedrooms, and amenities.
FR-5	User Interaction and Feedback	Enable user comments and ratings on visualizations for continuous improvement.

Non-functional Requirements:

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

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The dashboard should be intuitive and easy to navigate for users of all skill levels.
NFR-2	Security	Ensure that user data and sensitive information are protected through encryption and secure access controls.
NFR-3	Performance	The application should load visualizations within 2 seconds to ensure a smooth user experience.
NFR-4	Scalability	The system should be able to handle an increasing amount of data and users without performance degradation.
NFR-5	Compatibility	The dashboard should be compatible with major web browsers and mobile devices for accessibility.