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

Date	04 February 2026
Team ID	LTVIP2026TMIDS73146
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 Loading	Load Housing Dataset (CSV) into Tableau Upload dataset from local system Validate dataset format
FR-2	Data Preprocessing	Handle Missing Values Remove Duplicate Records Convert Data Types Create Calculated Fields (House Age, Renovation Years)
FR-3	Dashboard Visualization	Create Housing Price Trend Dashboard Create Renovation Impact Charts Create Feature Analysis Charts (Bedrooms, Bathrooms, Floors)
FR-4	Dashboard Interaction	Apply Filters (Price Range, Year, Features) Display Interactive Charts
FR-5	Story Visualization	Create Tableau Story Explaining Insights Show Trend Analysis Summary
FR-6	Web Deployment	Publish Dashboard in Tableau Public Display Dashboard in Flask Website

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Dashboard should be easy to understand and user-friendly
NFR-2	**Security**	Dataset access restricted to authorized users
NFR-3	**Reliability**	Dashboard should load data correctly without failure
NFR-4	**Performance**	Dashboard should load within few seconds
NFR-5	**Availability**	Dashboard available 24/7 via website
NFR-6	**Scalability**	System should support larger housing datasets in future