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

Date	28 June 2025
Team ID	LTVIP2025TMID59588
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 Import	- Import data from CSV- Live database integration (e.g., MySQL, if applicable)
FR-2	Data Cleaning & Transformation	- Clean missing values- Add calculated fields (e.g., TotalAreaSqft, SalePriceBin)
FR-3	Data Visualization	- Create Tableau worksheets- Build multiple interactive dashboards
FR-4	User Interaction	- Filter by location, price range, features (e.g., bedrooms, condition, renovation)- Comparative charts (bar, scatter, etc.)
FR-5	User Access	- Role-based views (Homebuyer, Investor, Agent, Analyst)- Download/export insights (PDF/image)
FR-6	Feedback Loop	- Stakeholder review & feedback- Implement iterative revision cycles

Non-functional Requirements:

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

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	Intuitive UI with clear filters, legends, and navigation for all users
NFR-2	Security	Role-based access control; secure database connection
NFR-3	Reliability	Handles malformed data smoothly; ensures visualization and calculation accuracy
NFR-4	Performance	Fast loading and responsive visualizations, even with large datasets

NFR No.	Non-Functional Requirement	Description
NFR-5	Availability	Accessible on desktops, tablets, mobiles; minimal downtime
NFR-6	Scalability	Supports future data growth and feature expansions