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

Date	17 June 2025
Team ID	LTVIP2025TMID59142
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	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Data Ingestion	Import property data via API Upload CSV datasets for offline analysis
FR-4	Data Preprocessing	Remove the unwanted or unnecessary data
FR-5	Visualization Dashboard	Display time-series price trends by region/type Filter and compare data by zip code, year, property type
FR-6	User Interaction & Alerts	Let users set preferences for location/type Notify users when price changes exceed threshold (via email/SNS)

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The platform will have an intuitive UI with interactive charts and filters
NFR-2	**Security**	Secure user preferences and data with IAM roles and encrypted storage (KMS)
NFR-3	**Reliability**	The system must provide consistent predictions and dashboards without failure
NFR-4	**Performance**	Dashboards should load and update in under 3 seconds

NFR-5	**Availability**	System will be available 99.9% of the time via AWS-managed services
NFR-6	**Scalability**	Solution should scale to accommodate new cities, property types, or regions