Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	**21 June 2025**
Team ID	**LTVIP2025TMID48542**
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 Upload	Upload CSV/Excel of housing market data
FR-2	Data Cleaning	Remove missing or inconsistent values
FR-3	Feature Engineering	Add derived metrics (e.g., price/sq. ft)
FR-4	Interactive Visualization	Filter data by region, price range, features
FR-5	Trend Analysis	Time-based trends in housing prices
FR-6	Data Export	Export selected visual insights to image/PDF

Non-Functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The dashboard must be intuitive and simple to use for non-technical users.
NFR-2	Security	Local-only access; data not shared externally; no login needed.
NFR-3	Reliability	Should handle file errors and missing data gracefully.
NFR-4	Performance	Should render visualizations for medium datasets (~10,000 records) quickly.

| NFR-5 | Availability | Works offline on local Tableau Desktop software. |
| NFR-6 | Scalability | Suitable for scaling up to slightly larger datasets if needed in future. |