**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 24 JUNE 2025 |
| Team ID | LTVIP2025TMID49893 |
| Project Name | Visualizing Housing Market Trends : Analysis Of Sale Prices And Feature Using Tableau |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| --- | --- | --- |
| FR-1 | Interactive Price Trend Dashboard | Display year-wise average sale price and number of houses sold using line and bar charts. |
| FR-2 | House Style & Feature Analysis | Allow users to compare house styles (e.g., bungalow, duplex) with average sale price and demand. |
| FR-3 | Renovation & House Age Insights | Show relationship between house age, renovation status, and sale price. |
| FR-4 | Garage & Feature Distribution | Visualize distribution of garage capacity and exterior features using pie and bar charts. |
| FR-5 | Location-Based Price Breakdown | Analyze neighborhood/area-wise price variations and trends (if location data is included). |
| FR-6 | Story-Based Dashboard Navigation | Sequential story view explaining housing market trends with captions and narrative insights. |

**Non Functional Requirements:**

| **NFR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | Performance | Dashboards should load within 3–5 seconds even with filters applied. |
| NFR-2 | Scalability | Should support adding future housing data (e.g., new neighborhoods or features). |
| NFR-3 | Responsiveness | Dashboard should be usable on laptops, desktops, and during presentations. |
| NFR-4 | Usability | Interface should be intuitive, with clear charts, tooltips, and filters easy to understand. |
| NFR-5 | Visual Comfort | Use soft color palettes and readable legends to reduce user fatigue. |
| NFR-6 | Data Accuracy | Ensure accurate calculations (averages, comparisons) validated against the cleaned dataset. |