**Project Design Phase-II**

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

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| Date | 25 June 2025 |
| Team ID | LTVIP2025TMID47510 |
| Project Name | Visualizing Housing Market Trends: An Analysis of Sale Prices and Features |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **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 Dashboard | Display visualizations (charts, graphs, maps) Apply filters (location, time, condition) |
| FR-4 | Dataset Management | Upload or refresh dataset Export reports or insights as PDF/CSV |

**Non-functional Requirements:**

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

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | Usability | Interface should be intuitive and responsive across devices. |
| NFR-2 | Security | Data and user credentials must be securely stored and transmitted (HTTPS, OAuth). |
| NFR-3 | Reliability | System should work consistently under all supported scenarios. |
| NFR-4 | Performance | Visuals should load under 2 seconds with datasets up to 10,000 records. |
| NFR-5 | Availability | System should be available 24/7 with 99% uptime. |
| NFR-6 | Scalability | Must handle increasing users and datasets without performance degradation. |