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

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| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID49022 |
| Project Name | Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

| 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 | Dashboard Access | View housing market dashboards |
| | | Apply filters (price, location, features) |
| | | Compare trends (renovated vs non-renovated) |
| FR-4 | Data Export | Export dashboard data to PDF/CSV |
| | | Share dashboards via link |
| FR-5 | User Support | Submit queries or issues |
| | | Chat/email support interaction |
| FR-6 | Admin Panel | Manage users and data |
| | | Upload new housing data to Tableau |
| | | View user analytics/logs |

**Non-functional Requirements:**

| FR No. | Non-Functional Requirement | Description |
|---|---|---|
| **NFR-1** | Usability | Interface should be intuitive and easy for both novice and expert users to analyze trends. |
| **NFR-2** | Security | All user data should be encrypted; secure login/authentication should be enforced (OAuth for Gmail/LinkedIn). |
| **NFR-3** | Reliability | System should function consistently without failures or data loss during user interaction. |
| **NFR-4** | Performance | Dashboards should load within 2 seconds and data should refresh dynamically with filters. |
| **NFR-5** | Availability | Platform should be available 99.9% of the time, including high-traffic hours. |
| **NFR-6** | Scalability | The system should support growing number of users and |