

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

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| Date | 19 February 2026 |
| Team ID | LTVIP2026TMIDS25019 |
| 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 dataset (CSV/Excel) Validate file type/format |
| FR-2 | Data Cleaning & Preparation | Handle missing/null values Create calculated fields |
| FR-3 | Visualization | Generate charts: house age, renovation, features |
| FR-4 | Dashboard Interaction | Add filters (year, bedrooms) Allow download/export |
| FR-5 | Dashboard Testing | Test load time and performance Verify filter responsiveness |
| FR-6 | Dashboard Publishing | Publish on Tableau Public Enable embed/share features |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|--|
| NFR-1 | Usability | Dashboard must be user-friendly, with clear navigation and interactive filters |
| NFR-2 | Security | Uploaded data must be protected from unauthorized access |
| NFR-3 | Reliability | System should display accurate and consistent visualizations |
| NFR-4 | Performance | Dashboards should load within 2 seconds with filters applied |
| NFR-5 | Availability | Dashboard should be accessible online 24/7 via Tableau Public |

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| NFR-6 | Scalability | The system must support future data expansion or new visualization requirements |
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