

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

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| Date | 3 July 2025 |
| Team ID | LTVIP2025TMID60925 |
| Project Name | Visualizing Housing Market Trends |
| 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 | Dashboard must show impact of renovation on sale price | Compare average sale price for renovated vs non-renovated houses Filter by years since renovation |
| FR-2 | User should be able to filter by house attributes | Filters for number of bedrooms, bathrooms, floors -Dropdowns for zip code groups and age brackets |
| FR-3 | Dashboard must show trends over time | Use histograms or line charts for years since renovation Allow view of house age distribution |
| FR-4 | Provide geographic distribution using maps | Show house locations using Latitude/Longitude Use color/size to reflect pricing or renovations |
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Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|---|
| NFR-1 | Usability | The dashboard should be easy to understand and use by both technical and non-technical users. |
| NFR-2 | Security | Access to the dashboard and dataset should be restricted to authorized team members only. |
| NFR-3 | Reliability | The dashboard must load and display accurate data without errors every time it's opened. |
| NFR-4 | Performance | The dashboard should load within a few seconds, even with filters applied on large datasets. |
| NFR-5 | Availability | The dashboard should be accessible at any time when shared or published on Tableau Public. |
| NFR-6 | Scalability | The dashboard should be able to handle more data or new filters/charts without breaking or lag. |