

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

|               |                                   |
|---------------|-----------------------------------|
| Date          | 31 January 2025                   |
| Team ID       | PNT2025TMID09745                  |
| 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   | Upload Datasets               | The system shall accept file formats such as .csv, .xlsx, and . json .<br>The users shall be notified if the file format is invalid. |
| FR-2   | Display Trends                | The system shall provide line and area charts to show price trends.<br>The system shall display tooltips with exact values on hover. |
| FR-3   | Time Filtering                | Users shall be able to select customer time intervals.<br>The system shall provide quick filters like "Last 6 Months", "This Year"   |
| FR-4   | User Account Features         | The system shall allow user registration and login.<br>Logged-in users shall be able to save dashboards.                             |

**Non-functional Requirements:**

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

| FR No. | Non-Functional Requirement | Description  |
|--------|----------------------------|--|
| NFR-1  | <b>Usability</b>           | Focuses on how easy and intuitive the system is for users.               |
| NFR-2  | <b>Security</b>            | Protects system data and operations from unauthorized access and misuse. |
| NFR-3  | <b>Reliability</b>         | Ensures the system performs correctly and consistently.                  |
| NFR-4  | <b>Performance</b>         | Refers to the speed and responsiveness of the system.                    |
| NFR-5  | <b>Availability</b>        | Focuses on ensuring the system is accessible and operational.            |
| NFR-6  | <b>Scalability</b>         | Defines how the system adapts to increased workload or growth.           |