

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	20 February 2025
Team ID	LTVIP2026TMIDS35233
Project Name	Visualizing Housing Market Trends: 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	User Registration	Registration through Form (Email & Password)
		Registration through Gmail
		Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email
		Confirmation via OTP
		Account activation after verification
FR-3	User Login & Authentication	Login using Email & Password
		Login using Gmail
		Forgot Password option
		Logout functionality
FR-4	Dashboard Access	Access dashboard after login
		View housing price trends
		View renovation impact analysis
		View sales distribution charts
FR-5	Data Filtering	Filter by bedrooms
		Filter by location
		Filter by renovation status
		Filter by price range
FR-6	Data Visualization	Interactive Tableau dashboard embedding
		Real-time chart updates
FR-7	Admin Management	Upload housing dataset
		Manage registered users
		Update/Delete dataset

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Users can easily view and filter housing dashboard.
NFR-2	Security	Login system protects user accounts and data.
NFR-3	Reliability	Dashboard shows correct housing price data without errors.
NFR-4	Performance	Tableau dashboard loads fast inside Flask app.
NFR-5	Availability	Web application is accessible anytime online
NFR-6	Scalability	System supports more housing data and users in future.