

## Project Design Phase

### Solution Architecture

Date	27 June 2025
Team ID	LTVIP2025TMID49194
Project Name	Visualizing housing Market trends:An analysis of sale prices and features using tableau
Maximum Marks	4 Marks

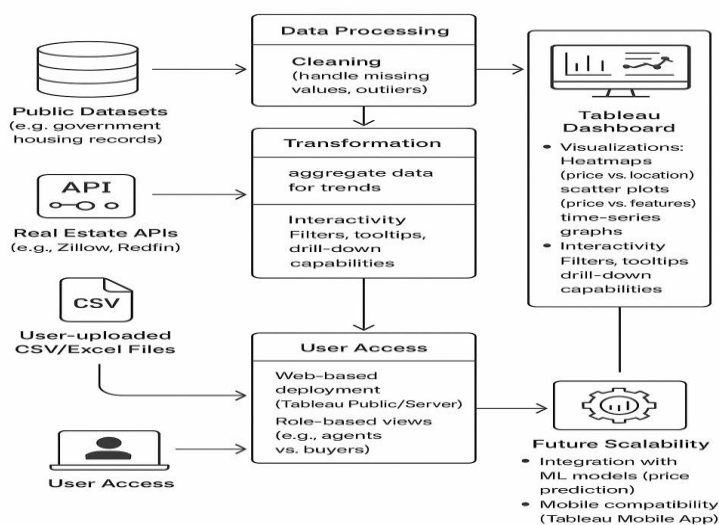
### Solution Architecture:

The solution architecture bridges the gap between the business problem (inefficient housing market analysis) and the technical solution (interactive Tableau dashboards). It ensures the system is scalable, user-friendly, and delivers actionable insights.

### Goals:

1. **Best Tech Solution:** Use Tableau for intuitive visualizations, paired with Python/R for data preprocessing (if needed).
2. **Stakeholder Clarity:** Define data flows, components, and user interactions for transparency.
3. **Phased Delivery:**
  - Phase 1: Static dashboards (price trends, feature correlations).
  - Phase 2: Interactive filters (region, time, property type).
  - Phase 3: Predictive analytics (future scope).
4. **Specifications:** Ensure compatibility with common data formats (CSV, Excel, APIs like Zillow).

### Example - Solution Architecture Diagram:



*Figure 1: Architecture and data flow of the voice patient diary sample application*