

Project Design Phase

Solution Architecture

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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 |

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Establish a streamlined process to collect, prepare, and visualize housing market data using Tableau for actionable business insights.
- Define the flow and interaction between data sources (CSV), processing layers (cleaning and calculated fields), and the visualization layer (Tableau dashboard).
- Develop core features such as region-wise, age-wise, and renovation-wise analysis, with interactive filters and dashboard controls.
- Ensure scalability and usability by embedding the dashboard on Tableau Public, making it accessible to stakeholders through web integration.
- Provide a maintainable and extendable architecture that supports future enhancements like predictive models or cloud deployment.

Solution Architecture Diagram:

Solution Architecture: Visualizing Housing Market Trends using Tableau

