

Project Design Phase
Solution Architecture

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| Date | 23 june 2025 |
| Team ID | LTVIP2025TMID49805 |
| Project Name | VisualizingHousingMarketTrendsAnAnalysisof Sale Prices and Features using Tableau |
| Maximum Marks | 4 Marks |

● Example - Solution Architecture Diagram:

Visualizing Housing market Trends

Analyze and visualize housing sale prices and features

Goals

- Identify housing price trends and influencing features
- Present data-driven insights to stakeholders
- Enable easy data refresh, scalable analysis and secure access

Solution Components



Data Sources

- Real estate datasets (CSV/API)
- External APIs (for location, interest rate, demographics)



Data Visualization

- Tableau: Tableau
- Amazon RDS (Azure Blob)



ETL Process

- AWS Glue / Apache Airflow / Python scripts



Monitoring & Logging

- CloudWatch / StackDriver / Azure Monitor



Data Storage

- Raw Data: AWS S3 / RDS or Snowflake

