Project DesignPhase

Solution Architecture

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| Date | June 27,2025 |
| TeamID | LTVIP2025TMID51580 |
| ProjectName | Visualizing housing market trends: ananalysis of sale prices and features using tableau |
| MaximumMarks | 4 Marks |

SolutionArchitecture:

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

The architecture separates data preprocessing, storage, visualization, and UI layers—making it easy to maintain, scale, and enhance. Cleaned data from MySQL is visualized using Tableau dashboards, offering region-wise, year-wise, and seasonal insights with filtering capabilities. Dashboards are embedded into a Flask-based web interface, allowing end users to interact with visual data through a user-friendly portal. The solution supports future extensions like forecasting models and can be deployed locally or on cloud platforms like Heroku or AWS.

Solution Architecture Diagram:

