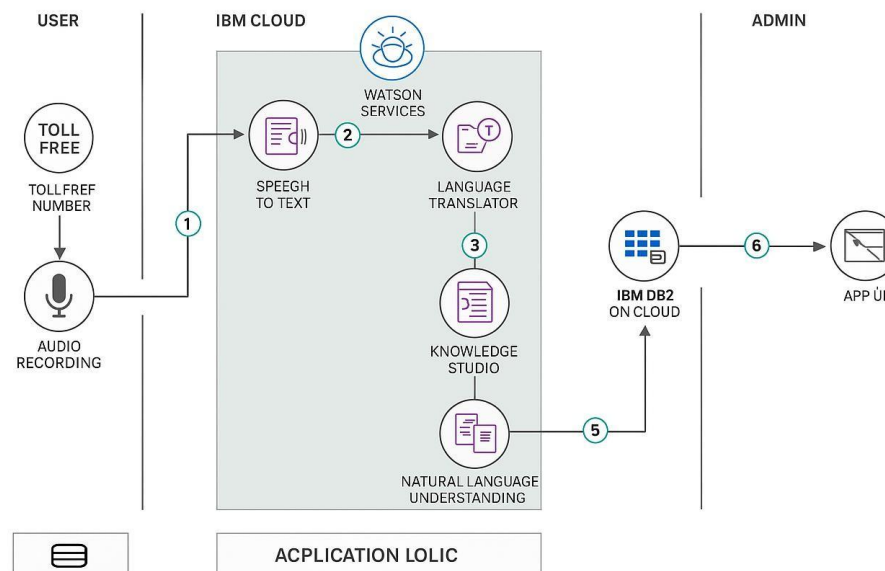


## Project Design Phase-II Technology Stack (Architecture & Stack)

|               |  |
|---------------|--|
| Date          | 23 June 2025   |
| Team ID       | LTVIP2025TMID50159   |
| Project Name  | Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau |
| Maximum Marks | 4 Marks  |

### Technical Architecture:

## Visualizing Housing Market Trends Tableau Public



**Table-1 : Components & Technologies:**

| S.No | Component                       | Description  | Technology             |
|------|---------------------------------|--|------------------------|
| 1.   | User Interface                  | Dashboard Interface used by Analyst & Business Users   | Tableau Public         |
| 2.   | Application Logic-1             | Data Upload & Cleaning                                 | Tableau Built-in Tools |
| 3.   | Application Logic-2             | Visualization & Chart Logic                            | Tableau Worksheets     |
| 4.   | Application Logic-3             | Storyboarding, Filtering and Aggregations              | Tableau Dashboard      |
| 5.   | Database                        | Source data (Structured CSV from Kaggle)               | CSV files              |
| 6.   | Cloud Database                  | Project uploaded to cloud (for sharing postcompletion) | Google Drive           |
| 7.   | File Storage                    | Tableau files (.twxb, .twx) stored locally             | Local Filesystem       |
| 8.   | External API-1                  | Not Used   | N/A                    |
| 9.   | External API-2                  | Not Used   | N/A                    |
| 10.  | Machine Learning Model          | Not Applicable   | N/A                    |
| 11.  | Infrastructure (Server / Cloud) | Local PC used for entire development and testing       | Local                  |

**Table-2: Application Characteristics:**

| S.No | Characteristics          | Description   | Technology                 |
|------|--------------------------|---|----------------------------|
| 1.   | Open-Source Frameworks   | Tableau Public is free to use   | Tableau Public             |
| 2.   | Security Implementations | Tableau Public access is limited via user account                     | Tableau access Ctrl        |
| 3.   | Scalable Architecture    | Scales with Tableau dashboards (charts, filters, story points)        | Tableau's dashboard system |
| 4.   | Availability             | Project can be shared via Tableau Public or Google Drive              | Tableau Public + Drive     |
| 5.   | Performance              | Data is pre-processed and filtered in Tableau for optimized rendering | Tableau Engine             |