**Project Design Phase-II**

**Technology Stack**

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| Date | 24 JUNE 2025 |
| Team ID | LTVIP2025TMID49893 |
| Project Name | Visualizing Housing Market Trends: Analysis Of Sale Prices And Feature Using Tableau |
| Maximum Marks | 4 Marks |

**Table-1 Components and Technologies:**



| **S.No** | **Component** | **Description** | **Technology** |
| --- | --- | --- | --- |
| 1 | User Interface | Users interact via embedded dashboards on web pages | HTML, CSS, JavaScript |
| 2 | Application Logic-1 | Data preparation and cleaning logic | Tableau Prep, Excel |
| 3 | Application Logic-2 | Visualization logic and analysis | Tableau Public |
| 4 | Database | Cleaned dataset storage | CSV file (Cleaned\_Housing.csv) |
| 5 | File Storage | Store Tableau packaged workbooks and HTML files | Local filesystem, GitHub Pages |
| 6 | External API | Tableau Public embedding for web integration | Tableau Public Embed API |
| 7 | Infrastructure | Hosting static web pages | GitHub Pages |

**Table-2 Application Characteristics:**

| **S.No** | **Characteristics** | **Description** | **Technology** |
| --- | --- | --- | --- |
| 1 | Open-Source Frameworks | GitHub Pages for static deployment, optional open JS libraries | GitHub Pages, HTML/CSS/JS |
| 2 | Security Implementations | Limited since it's public, basic repository protection | GitHub repo settings, HTTPS |
| 3 | Scalable Architecture | Can add more dashboards and stories in future | Static hosting, Tableau |
| 4 | Availability | High availability through GitHub global CDN | GitHub Pages CDN |
| 5 | Performance | Fast loading of static pages, lightweight HTML integration | GitHub Pages, CDN caching |

**Architecture Flow:**

GitHub Pages

(Static hosting)

Tableau Prep / Excel

(Data cleaning & transformation)

Tableau Public

(Dashboards & stories)

HTML, CSS, JavaScript

(Embedded dashboards)

Cleaned\_Housing.csv

(Local storage)

AmesHousing.csv

(Raw dataset)