**Project Design Phase**

**Solution Architecture**

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| --- | --- |
| Date | 1 JULY 2025 |
| Team ID | LTVIP2025TMID50223 |
| Project Name | Visualization Tool For Electric Vehicle Charge And Range Analysiss |
| Maximum Marks | 4 Marks |

**Solution Architecture:**

The architecture is designed to:

* Integrate **multiple EV datasets** from India and global sources.
* Use **Tableau Desktop** to create interactive dashboards and data stories.
* Host visualizations on **Tableau Public**.
* Display these through a **user-friendly web application** built using HTML, CSS, and Bootstrap.

**Example - Solution Architecture Diagram:**

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**| EV Datasets (CSV, |**

**| Excel, MySQL, |**

**| Google Sheets) |**

**+--------------------+**

**|**

**v**

**+----------------------+**

**| Data Preparation & |**

**| Cleaning (Optional) |**

**+----------------------+**

**|**

**v**

**+----------------------+**

**| Tableau Desktop |**

**| (Create Dashboards) |**

**+----------------------+**

**|**

**v**

**+-------------------------+**

**| Tableau Public Platform |**

**| (Dashboards + Stories) |**

**+-------------------------+**

**|**

**v**

**+-----------------------------+**

**| Web Frontend (HTML/CSS/JS) |**

**| - Embeds Tableau Dashboards |**

**| - Responsive UI (Bootstrap) |**

**+-----------------------------+**

**|**

**v**

**+---------------------+**

**| Users |**

**| EV Owners, Buyers, |**

**| Analysts, Public |**

**+---------------------+**