**Project Design Phase**

**Problem – Solution Fit Template**

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| Date | 1 JULY 2025 |
| Team ID | LTVIP2025TMID50223 |
| Project Name | Visualization Tool For Electric Vehicle Charge And Range Analysis |
| Maximum Marks | 2 Marks |

**Problem – Solution Fit Template:**

**Target Users:**

* EV owners
* Potential EV buyers
* Policy analysts
* Researchers in sustainability and energy

**User Behaviors:**

* Frequently look up EV performance data online.
* Struggle to find centralized, visual, and reliable insights.
* Often compare specs manually or rely on scattered blog reviews.

**Problems Faced:**

* Lack of unified dashboard or platform to **visually analyze** EV charge, range, and performance data.
* **Range anxiety** due to absence of clear, real-world usage stats.
* Difficulty in **comparing EVs** (India vs Global or Brand vs Brand) due to fragmented data.
* Stakeholders (buyers, researchers, analysts) can’t easily **draw insights** or track adoption.

| **Problem** | **Matching Solution** | **Why It Works** |
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| No centralized EV analytics | Tableau-based visual dashboards | Brings all datasets together visually |
| Hard to compare EVs easily | Comparative filters and story view | Enables informed decision-making |
| Range anxiety and lack of transparency | Charge vs range insights + real usage data | Reduces fear and builds trust |
| Analysts lack visual data for policy | India vs Global performance dashboards | Helps in evidence-based planning |