

## Requirement Analysis

### Technology Stack

Date	3 July 2025
Team ID	LTVIP2025TMID49372
Project Name	Visualization Tool for Electric Vehicle Charge and Range Analysis
Maximum Marks	2 Marks

#### Technology Stack:

The project uses Tableau Public for visualization, Google Sheets/CSV for data storage, and HTML/CSS for web integration. Supporting tools include Microsoft Word for documentation and GitHub for code/version management.

S.No	Component	Description	Technology Used
1	User Interface	Visual interface for EV charge/range dashboards and story	Tableau Public
2	Data Preparation Logic	Scripts and logic to clean and format EV dataset	SQL queries, MySQL Workbench
3	Data Analysis Logic	Generate charge duration, range, usage pattern charts	Tableau Calculated Fields, Filters
4	Data Source	Raw dataset used for charging and vehicle range analysis	CSV Files
5	Database (optional)	Storage for backup data	MySQL Workbench
6	Cloud Storage (optional)	Storing final reports, screenshots, and dashboard exports	Google Drive, Tableau Public
7	File Storage	Local system for raw data, Tableau files, screenshots	Local File System
8	External APIs (optional)	Real-time EV station/traffic data (future scope)	Google Maps API, Open Charge Map API
9	Infrastructure	Platform used for building and publishing dashboards	Local System + Tableau Public