Functional and Performance Testing

Date	25 June 2025
Team ID	LTVIP2025TMID20808
Project Name	Visualization tool for electric vehicle charge and range analysis using Tableau
Maximum Marks	5 Marks

Functional Testing

We tested the system features to ensure that everything worked as expected and provided correct outputs.

Features Tested:

Functionality	Tested?	Result
Dashboard filters (location, time, vehicle)	Yes	Working
Story navigation in Tableau	Yes	Smooth
Range and charger data charts	Yes	Accurate
Data import from MySQL	Yes	Successful
Dashboard responsiveness	Yes	Fast & Clean

Performance Testing

We ensured that the dashboard performs smoothly and loads quickly even with a decent dataset size.

Performance Metrics:

- Data Size Tested: according to the datasets
- Load Time (Tableau Public): Less than 4 seconds
- Story Slide Transition: Smooth and lag-free
- Dashboard Interactivity: No delay on filter selection
- Cross-device Testing: Mobile & Desktop – Responsive website