

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	09 February 2026
Team ID	LTVIP2026TMIDS35236
Project Name	Visualization Tool for Electric Vehicle Charge and Range Analysis
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Data Visualization	Display World Heritage Sites data using charts and maps
FR-2	Country Analysis	Show number of heritage sites by country
FR-3	Regional Analysis	Display site distribution across regions
FR-4	Category Analysis	Visualize Cultural, Natural, and Mixed site categories
FR-5	Trend Analysis	Show year-wise inscription trends using line charts
FR-6	Risk Analysis	Display sites at risk (In Danger vs Not in Danger)
FR-7	Interactive Filters	Filter data by Year, Region, Country, and Category
FR-8	Map Visualization	Show geographical distribution of sites on maps

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The dashboard should be simple, intuitive, and easy to navigate for all users.
NFR-2	Security	The dashboard should ensure data integrity and prevent unauthorized modification of data.
NFR-3	Reliability	The dashboard should consistently display accurate and correct information without errors.
NFR-4	Performance	The dashboard should load quickly and respond smoothly to filters and interactions.
NFR-5	Availability	The dashboard should be accessible whenever required without downtime.
NFR-6	Scalability	The dashboard should handle increasing data size without performance degradation.