

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

Date	27 June 2025
Team ID	LTVIP2025TMID49412
Project Name	Measuring the pulse of prosperity
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 Upload	Upload Economic Freedom Index CSV files Upload GDP and HDI datasets
FR-2	Data Preprocessing	Data cleaning and formatting using Python Handling missing or null values
FR-3	Visualization	Create country-wise comparative dashboards Implement correlation visualizations between freedom & GDP Add dynamic filters for year, region, and economic tier
FR-4	Insight Extraction	Identify top/bottom performing nations Show pattern-based insights via story dashboards
FR-5	Export Options	Export dashboards to PDF or PNG Allow download of filtered datasets

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Dashboards should be intuitive and easy to interpret for all stakeholders
NFR-2	Security	File upload/download permissions, view-only access on dashboards
NFR-3	Reliability	Data visualizations should render correctly across all filters
NFR-4	Performance	Dashboards should load within 3 seconds on average
NFR-5	Availability	Published dashboards must be accessible 24/7
NFR-6	Scalability	New datasets should be easily ingestible without structural changes