

Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	18 June 2025
Team ID	LTVIP2025TMID48892
Project Name	Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis
Maximum Marks	4 Marks

Technical Architecture

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

S.No	Component	Description	Technology
1	User Interface	How user interacts with application	Tableau Public
2.	Application Logic-1	Data preprocessing & normalization	Tableau filters and parameters
3.	Application Logic-2	Data visualization logic	Tableau dashboards & calculated fields
4.	Application Logic-3	Visualization integration	Tableau Public API
5.	Database	Housing dataset (CSV)	Excel / CSV
6.	Cloud Database	Hosted data files	Google Drive / Tableau Public
7.	File Storage	Upload economic reports & CSVs	Local system / Tableau
8.	External API-1	Fetch global economic index data	Tableau public
9.	External API-2	Country metadata & statistics	Tableau public
10.	Machine Learning Model	Not used	—
11.	Infrastructure (Server / Cloud)	Tableau hosted online	Tableau Public

Table-2: Application Characteristics

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Uses Tableau Public (free) and data from Kaggle or open housing sources	Tableau Public, Excel
2.	Security Implementations	Tableau's built-in privacy and publishing settings	Tableau Privacy Settings
3.	Scalable Architecture	Can scale to visualize larger datasets or additional regions	Tableau filters, cloud storage
4.	Availability	Hosted 24/7 on Tableau Public	Tableau Public
5.	Performance	Optimized dashboard design, fast filters, small file size	Tableau filters, pre-aggregated data