

Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	13 February 2026
Team ID	LTVIP2026TMIDS85861
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

Technology Stack

This project follows a structured data analytics workflow.

The Index of Economic Freedom dataset provided by The Heritage Foundation is used as the primary data source.

Data cleaning and preprocessing are performed using Tableau Prep Builder.

The cleaned dataset is analyzed and visualized in Tableau Desktop through interactive dashboards.

The final insights are published using Tableau Public for public access and presentation.

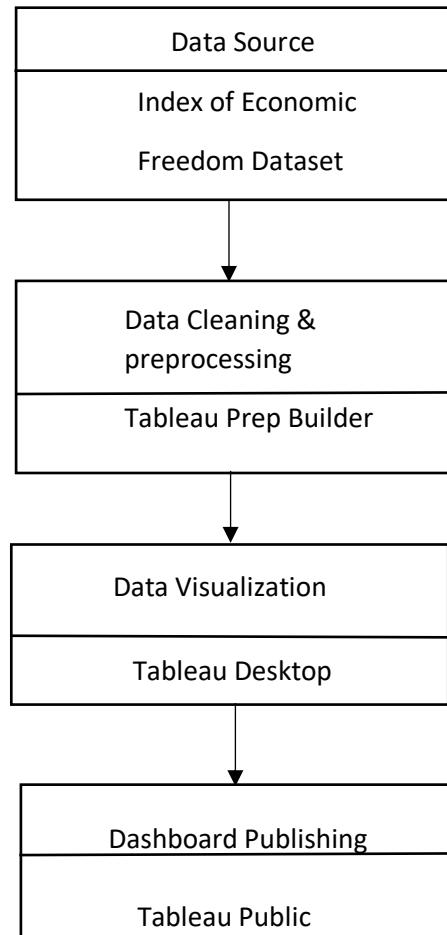


Table - 1 : Components & Technologies:

S.No	Component	Description	Technology
1.	Data Source	Provides country-wise economic freedom indicators and scores	The Heritage Foundation Dataset (CSV/Excel)
2.	Data Storage	Stores structured economic data before processing	Microsoft Excel / CSV
3.	Data Cleaning & Preparation	Handles missing values, data type conversion, filtering unnecessary columns	Tableau Prep Builder
4.	Data Analysis	Performs calculations like averages, rankings, comparisons, trends	Tableau Desktop (Calculated Fields)
5.	Data Visualization	Creates charts, maps, and dashboards to represent insights	Tableau Desktop
6.	Dashboard Publishing	Publishes interactive dashboards online	Tableau Public
7.	Documentation & Reporting	Prepares final project report and presentation	MS Word / PowerPoint

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Application Type	Data Analytics & Visualization Project	Tableau Ecosystem
2.	Architecture	Data Processing Pipeline (Data → Cleaning → Visualization)	Tableau Prep + Tableau Desktop
3.	Data Structure	Structured numerical & categorical data	CSV / Excel
4.	Analysis Capability	Comparative, ranking, and trend analysis	Tableau Calculated Fields

S.No	Characteristics	Description	Technology
5.	Interactivity	Filters, parameters, drill-down dashboards	Tableau Desktop
6.	Visualization	Variety Bar charts, line charts, maps, scatter plots	Tableau Desktop
7.	Deployment	Cloud-based dashboard publishing	Tableau Public
8.	Scalability	Can analyze multiple countries and years	Tableau Platform

References:

Dataset link: <https://drive.google.com/file/d/1EBla1LtM3Ni2Uh3nekLB6wt3263Q3NeX/view>

Tableau Desktop : Tableau Software, LLC. <https://www.tableau.com/>

Tableau Prep Builder : [Download Tableau Prep](#)

Tableau Public: [Discover | Tableau Public](#)