

Architecture Overview

Date	31 January 2026
Team ID	LTVIP2026TMIDS24940
Project Name	Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis
Maximum Marks	4 Marks

Architecture Overview (Text)

The project follows a layered data analytics architecture in which economic data is collected, processed, visualized, and delivered to users for interpretation.

The architecture consists of four layers:

1. Data Source Layer

The system uses the Index of Economic Freedom dataset in CSV format.

The dataset contains country-level economic freedom indicators and macroeconomic variables such as GDP per capita, inflation, unemployment, and investment.

This layer acts as the raw input provider for the analysis.

2. Data Preparation Layer

The dataset is cleaned and prepared using Microsoft Excel.

This stage includes:

- Removing missing or inconsistent values
- Formatting numeric fields
- Standardizing country names
- Preparing columns for visualization

The prepared dataset is then imported into Tableau.

3. Visualization Layer

Tableau Desktop forms the core analytical component of the system.

In this layer:

- Fields are categorized into dimensions and measures
- Charts and graphs are created
- Interactive filters are implemented
- Dashboards and stories are developed

The visualization layer converts raw economic data into meaningful insights.

4. Publishing Layer

The dashboard and story are published using Tableau Public.

Users can access the dashboard through a web browser and interact with charts, filters, and maps without installing any additional software.

5. End Users

End users include:

- Students
- Researchers
- Policy analysts
- Academic instructors

They interact with the dashboard to analyze economic relationships and compare countries.

Logical Architecture Flow

CSV Dataset



Excel Data Cleaning



Tableau Desktop (Analysis & Visualization)



Tableau Public (Publishing)



End Users (Interactive Analysis)

