

## 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.

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#### 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.

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#### 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.

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#### 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.

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#### 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)

