

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

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| 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.

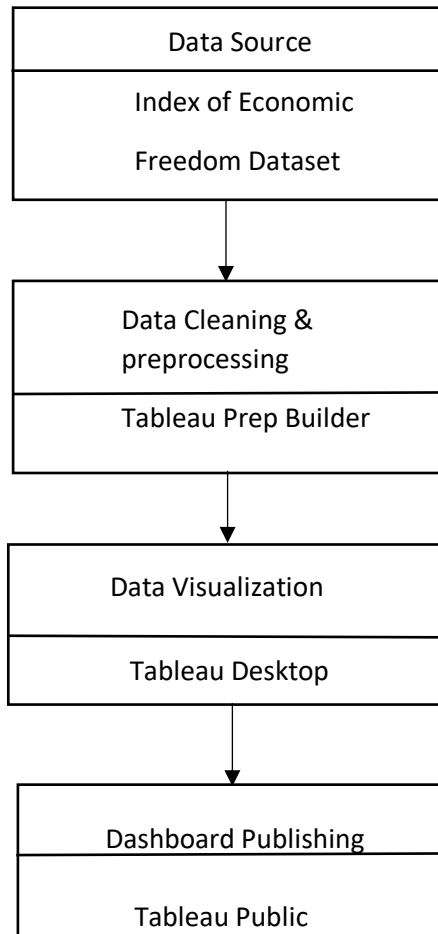


Table - 1 : Components & Technologies:

| 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/1EBIa1LtM3Ni2Uh3nekLB6wt3263Q3NeX/view>

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

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

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