Project Report Format

1. INTRODUCTION

1.1 Project Overview

Economic freedom plays a critical role in determining a country's prosperity, competitiveness, and the overall well-being of its citizens. However, while numerous datasets and reports exist, there is a gap in interactive and comparative tools that make this information accessible and actionable for diverse stakeholders.

This project aims to analyse and visualize the Index of Economic Freedom across multiple countries to provide insights into the relationship between economic policies and national prosperity. Using statistical analysis, data visualization techniques, and real-time filtering capabilities, the platform enables policymakers, researchers, investors, and the general public to explore key economic indicators in an intuitive and meaningful way.
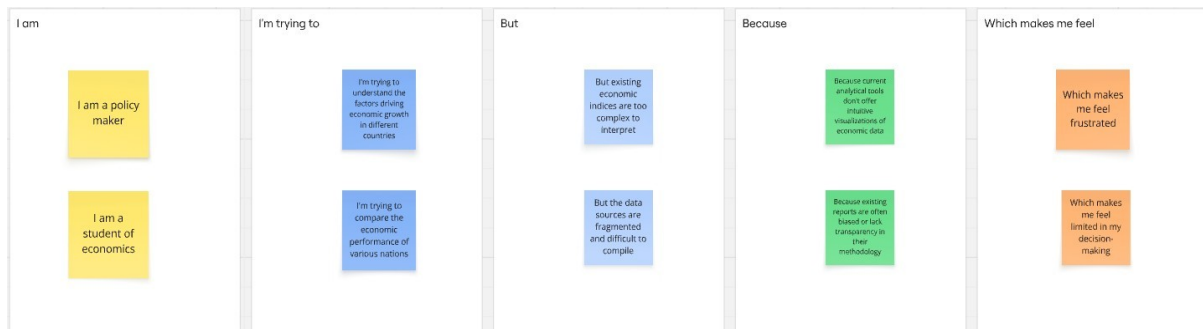
The solution integrates data ingestion, processing, and visualization in a modular architecture, offering features like global freedom heatmaps, year-wise trends, top/bottom ranked countries, and correlation analysis with other socio-economic metrics like GDP and unemployment rates. This project bridges the gap between raw data and informed decision-making through a transparent, scalable, and user-centric approach.

1.2 Purpose

The purpose of this project is to create an accessible, data-driven platform that enables the analysis and visualization of the Index of Economic Freedom across different countries and time periods. This initiative seeks to empower policymakers, researchers, and investors by providing them with actionable insights into how economic freedom influences prosperity, governance, and development. By transforming complex datasets into interactive dashboards and comparative tools, the project promotes informed decision-making, encourages transparency in economic policies, and supports academic and institutional research. Ultimately, the solution aspires to highlight global economic patterns and guide strategic reforms aimed at enhancing economic liberty and growth.
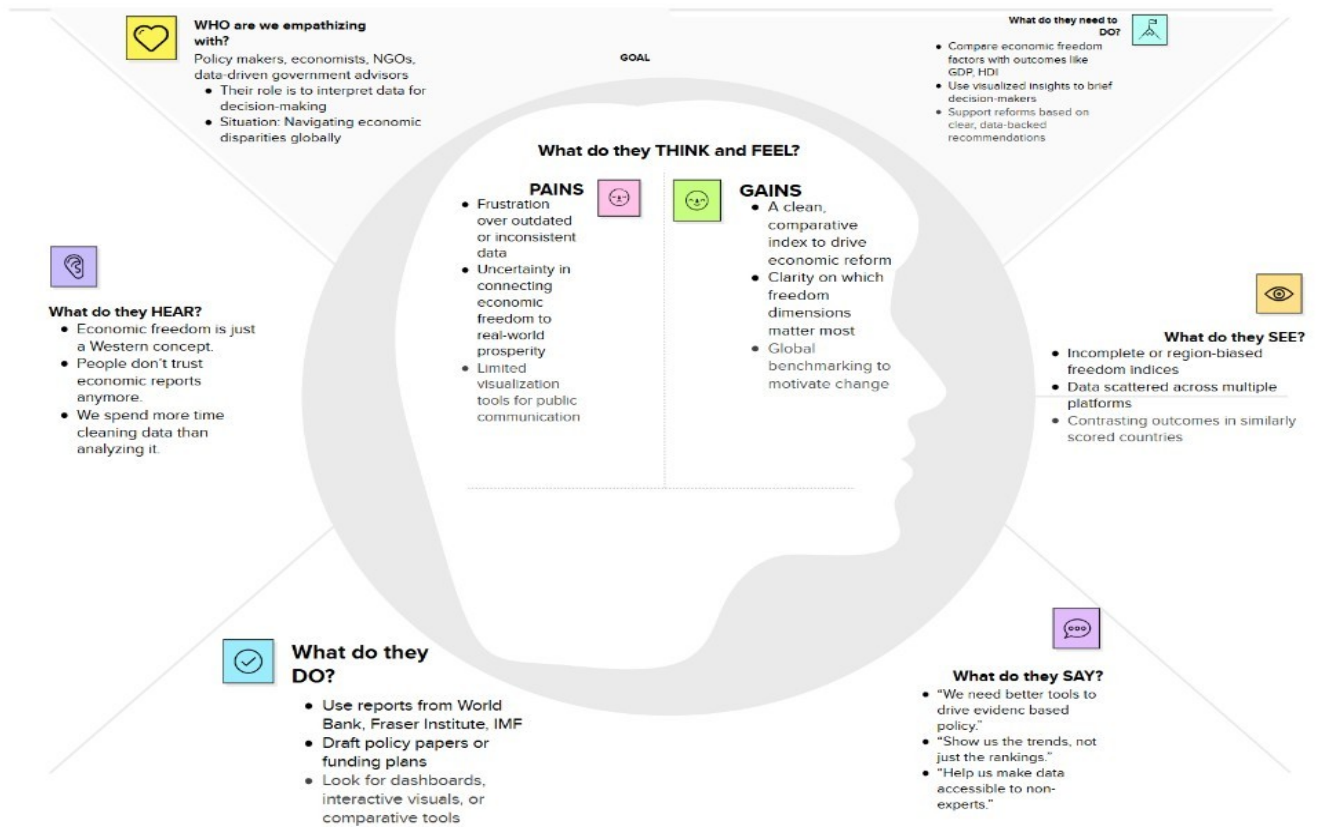
2. IDEATION PHASE

2.1 Problem Statement

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	a policymaker	understand the drivers of economic prosperity in different nations to formulate effective policies.	existing economic indices are often too complex, lack timely updates.	there's a need for a comprehensive, easily digestible, and regularly updated index that integrates various dimensions of economic freedom.	frustrated and uncertain about the optimal policy choices.
PS-2	an economic researcher	identify clear correlations between economic freedom and socio-economic outcomes for academic analysis.	current data sources are fragmented, inconsistent, and difficult to compare across different countries and time periods.	there isn't a standardized, reliable, and easily accessible dataset that combines diverse indicators of economic freedom with relevant outcome variables.	overwhelmed by data collection and analysis, and limited in drawing robust conclusions.

2.2 Empathy Map Canvas

WHO are we empathizing with?
Policy makers, economists, NGOs, data-driven government advisors
- Their role is to interpret data for decision-making
- Situation: Navigating economic disparities globally

GOAL

What do they need to DO?
- Compare economic freedom factors with outcomes like GDP, HDI
- Use visualized insights to brief decision-makers
- Support reforms based on clear, data-backed recommendations

What do they THINK and FEEL?

PAINS
- Frustration over outdated or inconsistent data
- Uncertainty in connecting economic freedom to real-world prosperity
- Limited visualization tools for public communication

GAINS
- A clean, comparative index to drive economic reform
- Clarity on which freedom dimensions matter most
- Global benchmarking to motivate change

What do they HEAR?
- Economic freedom is just a Western concept.
- People don't trust economic reports anymore.
- We spend more time cleaning data than analyzing it.

What do they SEE?
- Incomplete or region-biased freedom indices
- Data scattered across multiple platforms
- Contrasting outcomes in similarly scored countries

What do they DO?
- Use reports from World Bank, Fraser Institute, IMF
- Draft policy papers or funding plans
- Look for dashboards, interactive visuals, or comparative tools

What do they SAY?
- "We need better tools to drive evidenc based policy."
- "Show us the trends, not just the rankings."
- "Help us make data accessible to non-experts."

2.3 Brainstorming

Step-1: Team Gathering, Collaboration and Select the Problem Statement

Step-2: Brainstorm, Idea Listing and Grouping

Step-3: Idea Prioritization
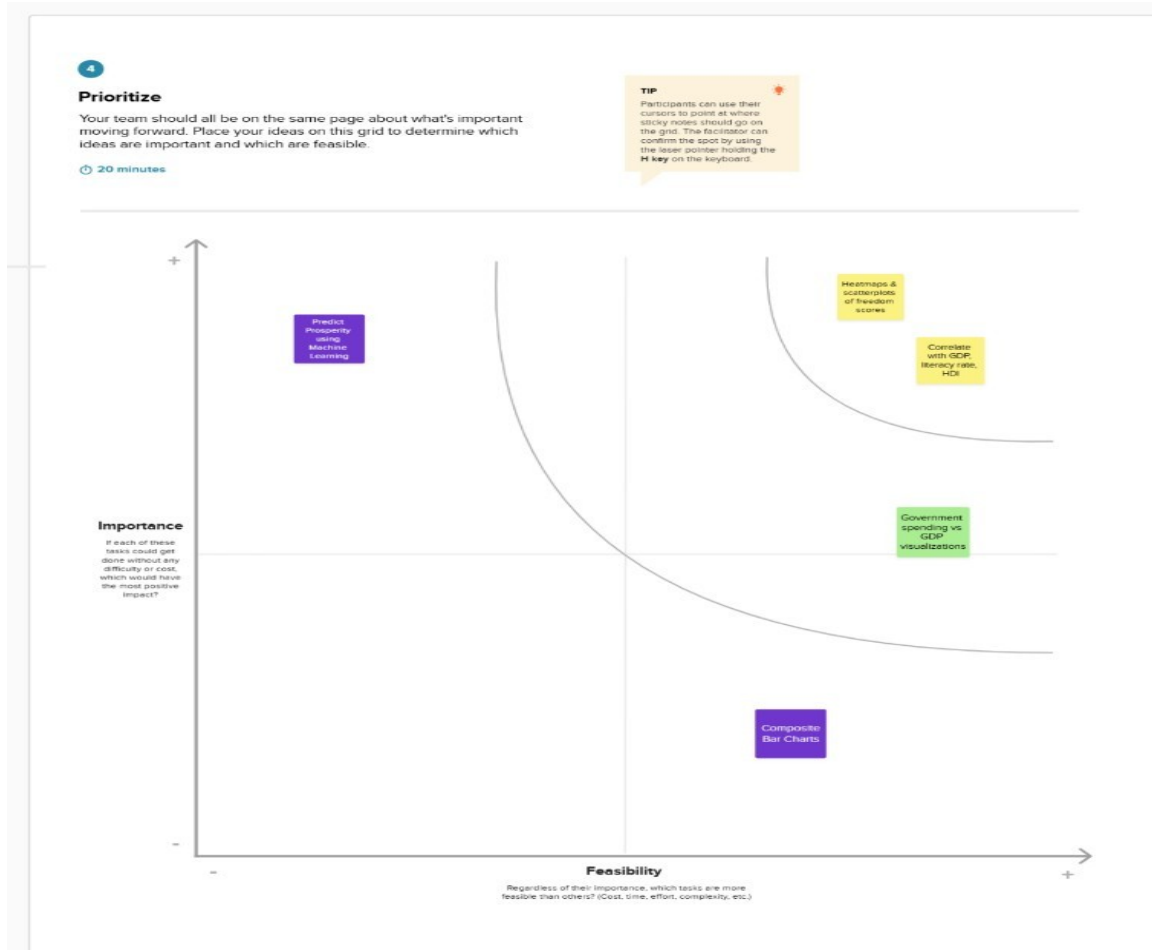
3. REQUIREMENT ANALYSIS

3.1 Customer Journey map

Stage	Actions	Thoughts	Touchpoints	Pain Points
Discovery	Learns about the platform via seminar, academic circles, or reports.	"Is there a tool that shows how economic freedom affects prosperity?"	University portals, policy newsletters, GitHub, search engines	Lack of accessible and reliable visualization tools
Access	Visits the platform and browses the landing page.	"Is this data recent? Can I trust the source?"	Web interface, data source links (e.g., Heritage Foundation)	Trust in data, understanding source credibility
Interaction	Filters data by year/country, views heatmaps and rankings.	"I want to compare my country with others or across years."	Dashboard, filtering tools, charts, dropdown selectors	Trust in data, understanding source credibility

3.2 Solution Requirement

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form
		Registration through Gmail
		Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email
		Confirmation via OTP
FR-3	Data Ingestion & Management	Upload Dataset (e.g., CSV, Excel, from external APIs)
		Data Validation and Cleaning
		Data Storage and Organization (e.g., database)
FR-4	Economic Freedom Index Calculation	Define and Configure Index Components
		Apply Weighting Schemes (configurable by user/admin)
		Calculate Composite Index Scores for countries/regions
FR-5	Data Analysis & Visualization	Generate Interactive Charts (e.g., Bar, Line, Scatter, Bubble)
		Create Geographic Visualizations (e.g., Choropleth Maps)
		Provide Trend Analysis over Time
		Enable Comparison between Countries/Regions
		Display Correlation Matrices between indicators
FR-6	Reporting & Export	Generate Customizable Reports (e.g., PDF, HTML)
		Export Raw and Processed Data (e.g., CSV, Excel)
		Export Visualizations (e.g., Image formats like PNG, JPEG)
FR-7	User Authentication & Authorization	User Login/Logout
		Role-based Access Control (e.g., Admin, Analyst, Viewer)
FR-8	Search & Filter Functionality	Search by Country Name, Year, Index Component
		Filter Data by various criteria (e.g., region, income level)

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The system should have an intuitive and user-friendly interface, allowing users to easily navigate, interact with data, and interpret results without extensive training.
NFR-2	**Security**	The system must protect sensitive user data (if any) and ensure the integrity and confidentiality of the economic data. This includes secure authentication, authorization, and protection against unauthorized access or data breaches.
NFR-3	**Reliability**	The system should consistently perform its functions accurately and without significant errors. Data calculations, visualizations, and report generation should be reliable and repeatable.
NFR-4	**Performance**	The system should respond quickly to user requests, especially during data processing, index calculation, and visualization generation, even with large datasets. Data loading and rendering times should be minimal.
NFR-5	**Availability**	The system should be accessible to authorized users whenever needed, with minimal downtime. This includes considerations for server uptime, data accessibility, and disaster recovery.
NFR-6	**Scalability**	The system should be able to handle an increasing amount of data (e.g., more countries, more years, new indicators), a growing number of concurrent users, and additional features without significant degradation in performance.
NFR-7	**Maintainability**	The system's codebase and architecture should be well-documented, modular, and easy to modify or extend to accommodate future enhancements or bug fixes.
NFR-8	**Data Accuracy**	The system must ensure the highest level of accuracy for all ingested data, calculations, and visualizations to reflect reliable economic insights.

3.3 Data Flow Diagram

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Policymaker	Data Analysis & Visualization	USN-1	As a Policymaker, I want to view a world map showing economic freedom scores by country, so that I can quickly identify regions with high or low economic prosperity and potential policy impact areas.	The map correctly displays economic freedom scores, and I can identify regions visually.	High	Sprint-1
Economic Researcher	Data Analysis & Visualization	USN-2	As an Economic Researcher, I want to filter economic data by specific years and countries, so that I can conduct in-depth analysis on historical trends and compare performance across different nations.	I can apply filters for years and countries, and the data displayed updates accordingly.	High	Sprint-1
Investor	Data Analysis & Visualization	USN-3	As an Investor, I want to see the top 40 and least ranked countries based on their economic index, so that I can identify potential investment opportunities or risks in various markets.	The list of top and least ranked countries is accurate and easily accessible.	High	Sprint-1
User	Data Ingestion & Management	USN-4	As a User, I want to upload new economic datasets (e.g., CSV, Excel), so that I can incorporate the latest information into the analysis and update the index.	I can successfully upload a dataset, and its data is visible in the system.	Medium	Sprint-2
Economic Researcher	Data Analysis & Visualization	USN-5	As an Economic Researcher, I want to view correlations between economic freedom and indicators like unemployment rate and GDP growth, so that I can understand the multifaceted impacts of economic policies.	The system generates a report with selected criteria, and I can download it in my desired format (e.g., PDF).	High	Sprint-2
User	Reporting & Export	USN-6	As a User, I want to export visualizations (e.g., charts, maps) as image files, so	I can export displayed visualizations	Medium	Sprint-1

User Type	Function al Requirem ent (Epic)	User Story Numb er	User Story / Task	Acceptance criteria	Priorit y	Releas e
			that I can easily include them in presentations or reports.	as image files (e.g., PNG, JPEG).		
Administrat or	User Managem ent & Authorizati on	USN-7	As an Administrator, I want to manage user accounts and roles, so that I can access levels to sensitive data and functionalities.	I can add, edit, and remove users, and assign.	High	Sprint- 1

4. PROJECT DESIGN

4.1 Problem Solution Fit

4.2 Proposed Solution

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Despite the availability of macroeconomic data, policymakers and researchers lack a clear, accessible method to evaluate how economic freedom correlates with prosperity.
2.	Idea / Solution description	The project analyses the Economic Freedom Index using data visualization and comparative analysis tools. It offers clear dashboards, insights, and recommendations across countries
3.	Novelty / Uniqueness	While reports exist, this solution provides an interactive, comparative, and visually rich platform combining multiple data dimensions useful for academia and policy
4.	Social Impact / Customer Satisfaction	Informed citizens, better policy decisions, and transparency in economic governance. This tool helps identify reforms needed to enhance freedom and economic performance.
5.	Business Model (Revenue Model)	Can be offered as a freemium tool for students/researchers, with advanced insights and country reports available via subscription for institutions, think tanks, or NGOs.
6.	Scalability of the Solution	Can be extended to include regional/state-level indices, time-series trends, or integration with other indicators (e.g., Human Development Index, Corruption Perception Index).

4.3 Solution Architecture

Measuring the Pulse of Prosperity:
An Index of Economic Freedom Architecture

Voice Survey

Amazon Echo

Alexa Communications Service

Web Survey

Web Survey

Amazon Connect
(contact centr)

Amazon Lex

DynamoDB
Indicator response srage

Raw data

Inter: Economic fedom indicator)

Lambda
(data processing function)

Amazon QuickSight
Data analytics
5 visilulzlation

Key Management Service
(Encryptionkey management)
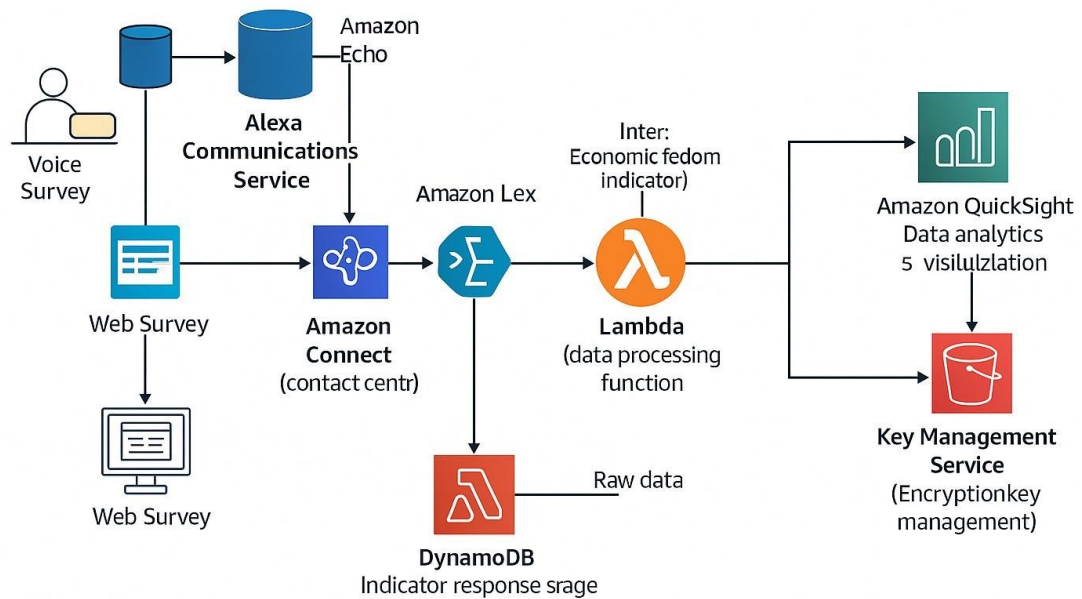
5. PROJECT PLANNING & SCHEDULING

5.1 Project Planning

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority
Sprint-1	Data Analysis & Visualization	USN-1	As a Policymaker, I want to view a world map showing economic freedom scores by country, so that I can quickly identify regions with high or low economic prosperity and potential policy impact areas.	2	High
Sprint-1	Data Analysis & Visualization	USN-2	As an Economic Researcher, I want to filter economic data by specific years and countries, so that I can conduct in-depth analysis on historical trends and compare performance across different nations.	2	High
Sprint-1	Data Analysis & Visualization	USN-3	As an Investor, I want to see the top 40 and least ranked countries based on their economic index, so that I can identify potential investment opportunities or risks in various markets.	2	High
Sprint-2	Data Ingestion & Management	USN-4	As a User, I want to upload new economic datasets (e.g., CSV, Excel), so that I can incorporate the latest information into the analysis and update the index	3	Medium
Sprint-2	Data Analysis & Visualization	USN-5	As an Economic Researcher, I want to view correlations between economic freedom and indicators like unemployment rate and GDP growth, so that I can understand the multifaceted impacts of economic policies.	4	High
Sprint-3	Reporting & Export	USN-6	As a User, I want to export visualizations (e.g., charts, maps) as image files, so that I can easily include them in presentations or reports.	4	Medium
Sprint-3	User Management & Authorization	USN-7	As an Administrator, I want to manage user accounts and roles, so that I can access levels to sensitive data and functionalities.	3	High

Project Tracker, Velocity & Burndown Chart:

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	6	5 Days	16 January 2026	21January 2026	6	21 January 2026
Sprint-2	7	5 Days	21January 2026	25 January 2026	7	25 January 2026
Sprint-3	7	5 Days	25 January 2026	30 January 2026		

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

AV = sprint duration/velocity =15/10=1.5

Burndown Chart:

Sprint-2 Burndown Chart
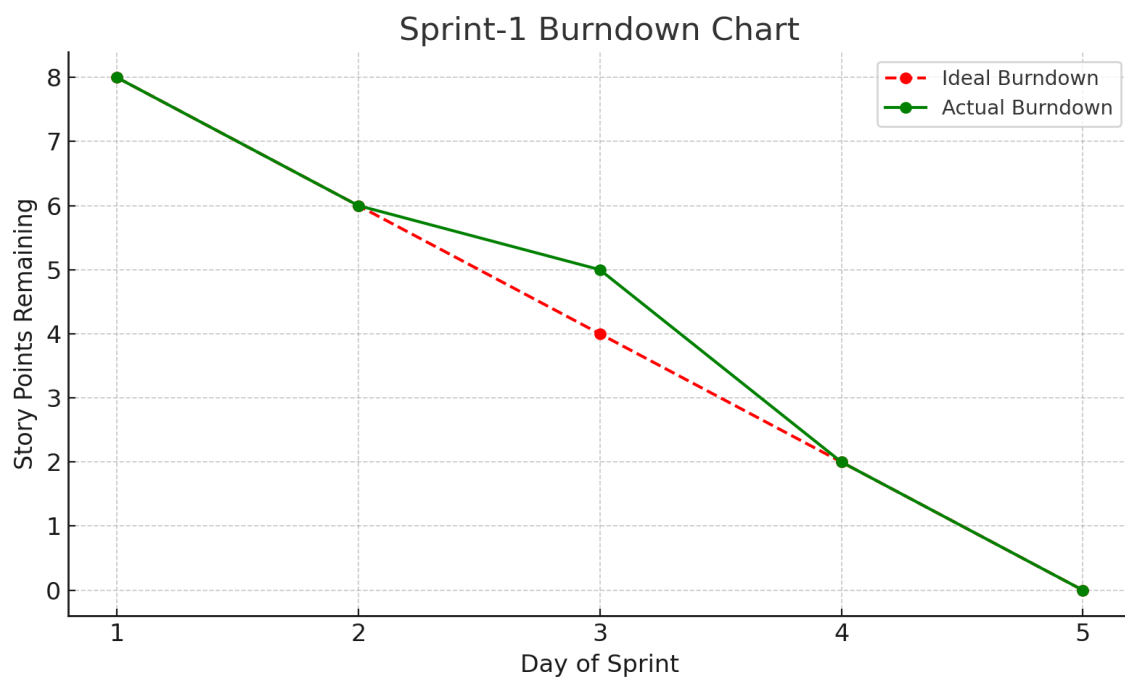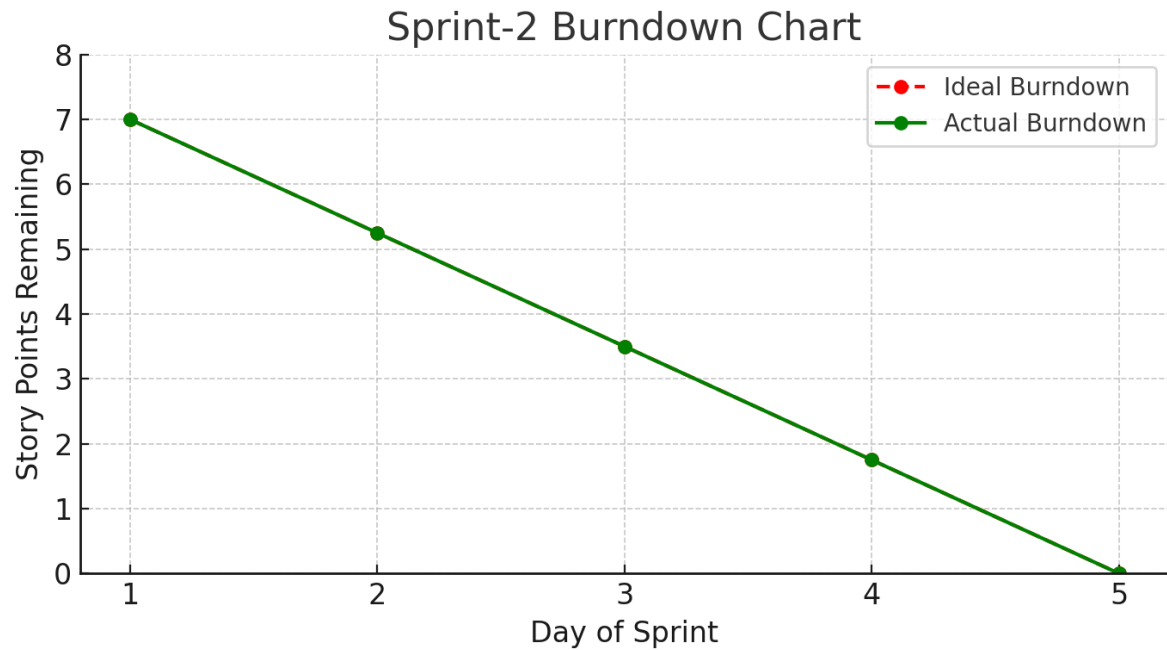
6. FUNCTIONAL AND PERFORMANCE TESTING

6.1 Performance Testing

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	The dashboard renders comprehensive country-level economic data including: - Economic Score/Index - Country ID and Country Name - 5-Year GDP Growth Rate - Business Freedom, Corporate Tax Rate (%), FDI Inflow (Millions), Financial Freedom, Fiscal Health, GDP (Billions), GDP Growth Rate (%), GDP per Capita (PPP), Government Integrity, Government Expenditure (%) of GDP, Government Spending, Income Tax Rate (%), Inflation (%), Index of Population, Unemployment (%). -The data appears to cover multiple years, showing trends and comparisons across a wide range of countries

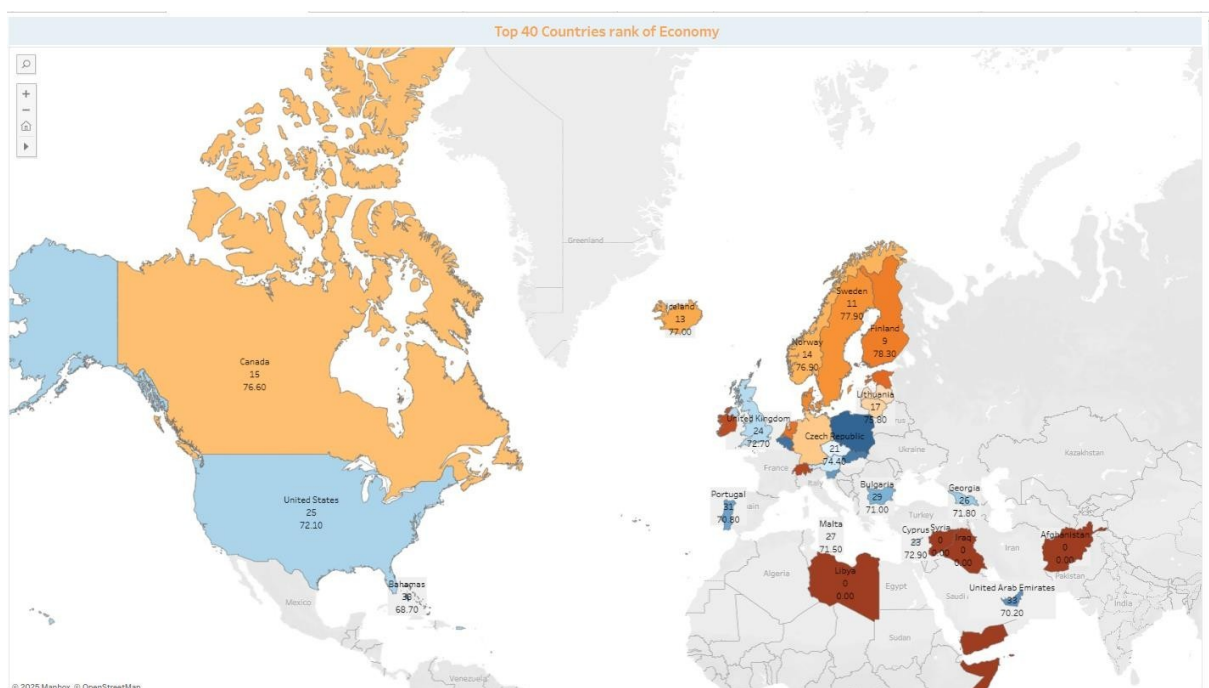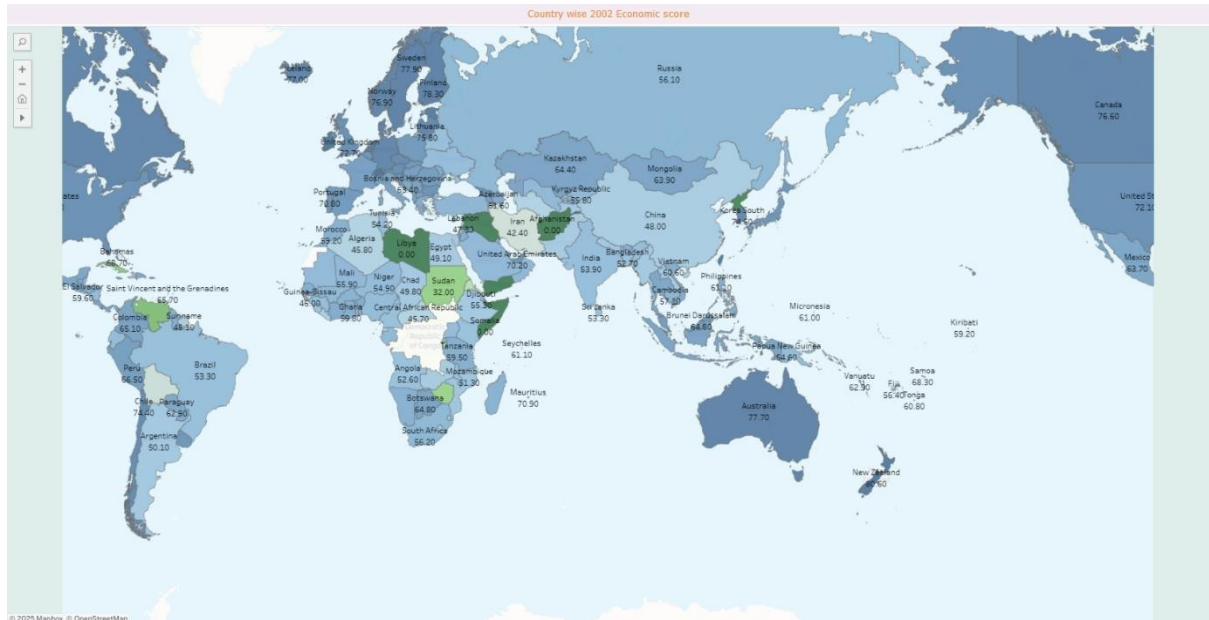|		
2.	Data Preprocessing	Preprocessing likely involved: - **Data Cleaning:** Handling missing values, correcting inconsistencies, and standardizing country names. - **Data Transformation:** Aggregating data to specific years or regions, potentially calculating the composite Economic Freedom Index from its constituent components. - **Geographic Data Preparation:** Ensuring country names are recognized by Tableau for mapping. - **Feature Engineering:** Creating calculated fields such as "5 Year GDP Growth Rate" or specific "Economic Score" components if not directly present in the raw data.
3.	Utilization of Filters	The dashboard extensively uses filters and interactive elements: - **Country Name Filter:** Allows users to select specific countries for focused analysis. - **Measures Filter:** To select different economic indicators (e.g., Inflation, Unemployment, GDP) for visualization and correlation. - **Year Slider/Filter:** To change the year for which the data is displayed on the map and other charts. - **Interactive Map Selection:** Clicking on countries on the map appears to filter other related views
4.	Calculation fields Used	Based on the metrics and visualizations, the following calculated fields are likely used: - **Economic Score/Index:** A composite score derived from various sub-indicators of economic freedom. - **5 Year GDP Growth Rate:** Likely a calculation based on GDP values over a five-year period. - **Rankings:** Calculated fields to determine and display the "Top 40 countries rank of Economy" and "Least ranked countries of economic index." - **Region Groupings:** Possibly a calculated field to group countries into broader regions for high-level analysis.
5.	Dashboard design	No of Visualizations / Graphs – The primary dashboard ("Dashboard 1" / "Global Rankings & Financial Freedom Impact Dashboard") contains at least 5 distinct visualizations/sections

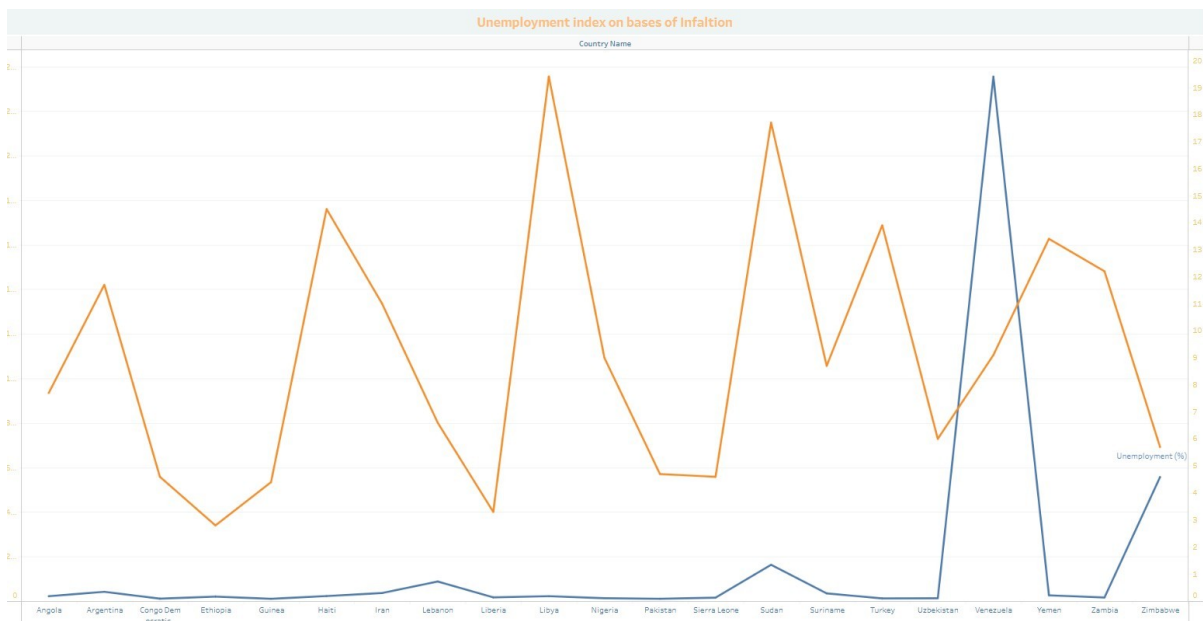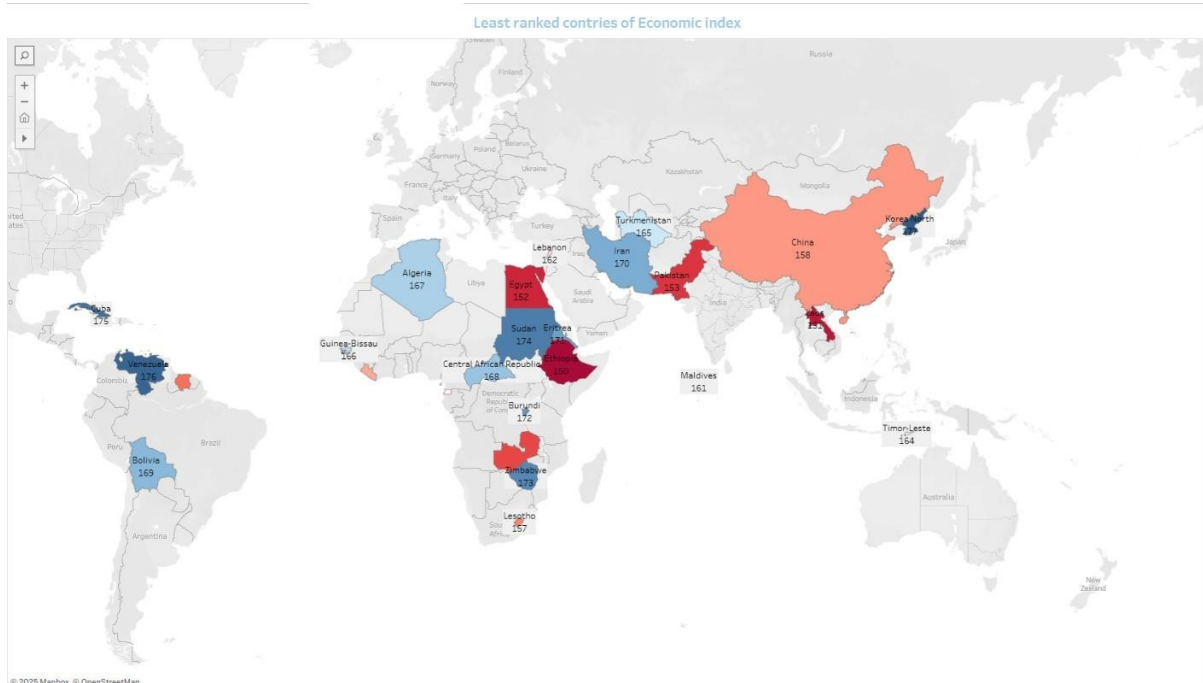|		
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5.	Dashboard design	No of Visualizations / Graphs – The primary dashboard ("Dashboard 1" / "Global Rankings & Financial Freedom Impact Dashboard") contains at least 5 distinct visualizations/sections

		- Choropleth Map (e.g., "Visualizing Economic Freedom and Instability Around the World")
		- Correlation Chart (e.g., "Correlation of Countries Based on Inflation & Unemployment")
		- Horizontal Bar Chart (e.g., "Index of Population")
		- "Insights Overview" Text Box
		- "Top 40 Countries rank of Economy" bar/map chart
		-"Countries Less Than 25 of Economy Index" (potentially a tree map or similar chart)
6	Story Design	No of Visualizations / Graphs – The "Story" section ("Journey Through the 2002 Global Economy") explicitly shows 5 story points/pages, each potentially containing one or more visualizations: - Story Point 1: World Map of Economic Score. - Story Point 2: Top 40 Countries Rank. - Story Point 3: Least Ranked Countries. - Story Point 4: Correlation of Countries Based on Inflation & Unemployment. - Story Point 5: Index of Population. - Story Point 6: Financial Freedom of Countries. - Story Point 7: Index of 5 yrs GDP Rate.

7. RESULTS

7.1 Output Screenshots

Least ranked contries of Economic index

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Unemployment index on bases of Infaltion

Country Name

Unemployment (%)

Index of Population

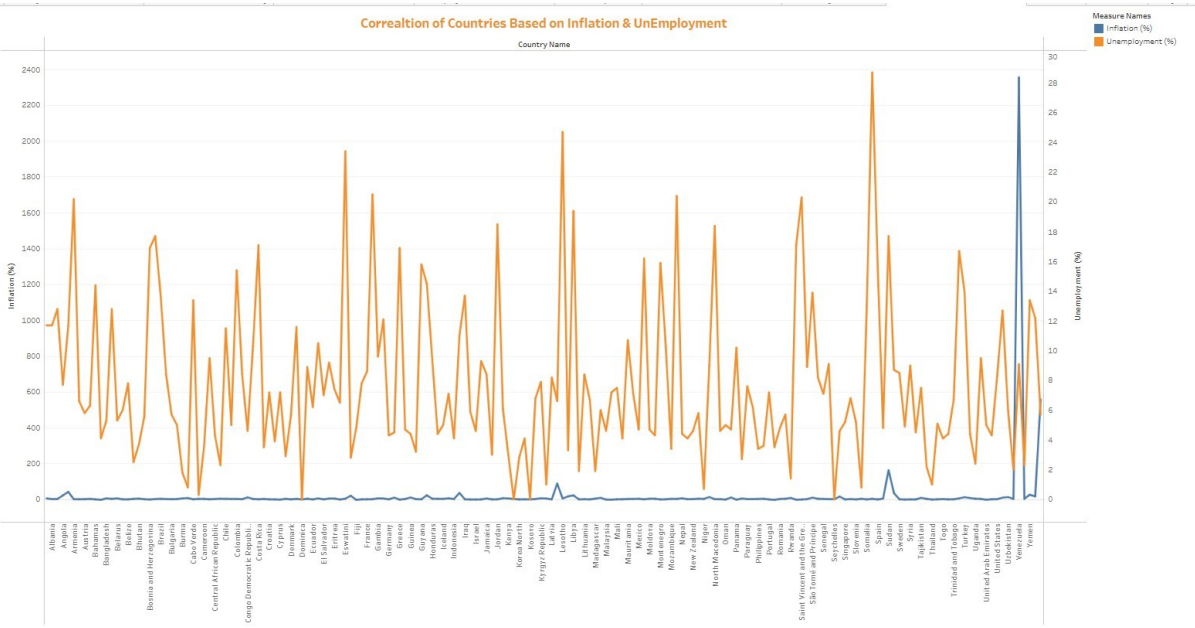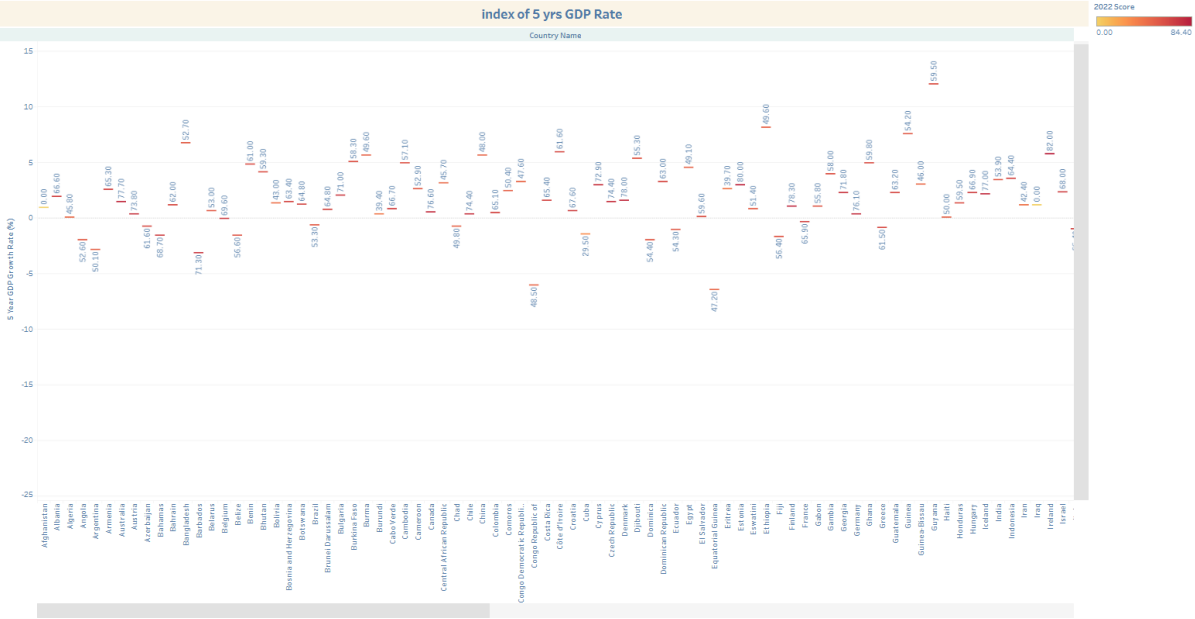| Country Name	Population (Millions)	
China		48.00
India		53.90
United States	72.10	
Indonesia	64.40	
Nigeria	54.40	
Pakistan	48.80	
Brazil	53.30	
Bangladesh	52.70	
Russia	56.10	
Mexico	63.70	
Japan	69.90	
Ethiopia	49.60	
Philippines	61.10	
Egypt	49.10	
Vietnam	60.60	
Congo Democratic Republi...	47.60	
Turkey	56.90	
Iran	42.40	
Germany	76.10	
Thailand	63.20	
France	65.90	
United Kingdom	72.70	
Tanzania	59.50	
Italy	65.40	
South Africa	56.20	
Burma	49.60	
Kenya	52.60	
Korea South	74.60	
Colombia	65.10	
Spain	68.20	
Uganda	54.20	
Argentina	50.10	
Ukraine	54.10	
Algeria	45.80	
Sudan	32.00	
Iraq	0.00	
Afghanistan	0.00	
Poland	68.70	
Canada	76.60	
Morocco	59.20	
Saudi Arabia	55.50	
Uzbekistan	55.70	

202
0.0

Population (Millions): 0 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 1050 1100 1150 1200 1250 1300 1350 1400 1450 1500

Financial Freedom of countries less than 25 of Economy index

Region
- Americas
- Asia-Pacific
- Europe
- Middle East and Nort...
- Sub-Saharan Africa

| Tonga 20 60.80 -0.50 | Laos 20 49.20 -0.40 | Timor-Leste 20 46.30 -6.80 | Turkmenistan 10 46.20 0.80 | Cuba 10 29.50 -11.00 |

Venezuela 10 24.80 -30.00

| Burma 20 49.60 3.20 | China 20 48.00 2.30 | | | |

| Sierra Leone 20 52.00 -2.20 | Liberia 20 47.90 -3.00 | Eritrea 20 39.70 -0.60 | Sudan 20 32.00 -3.60 | Belarus 20 53.00 -0.90 |

| Ethiopia 20 49.60 6.10 | Congo Democratic Republic of the Congo 20 47.60 -0.10 | Zimbabwe 10 33.10 -8.00 | | Iran 10 42.40 1.50 |

index of 5 yrs GDP Rate

Correaltion of Countries Based on Inflation & UnEmployment

Visualizing Economic Freedom and Instability Around the World
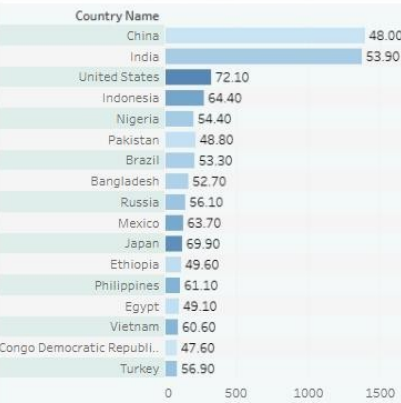
Country wise 2002 Economic score
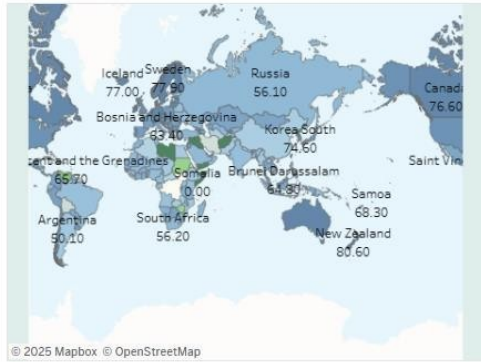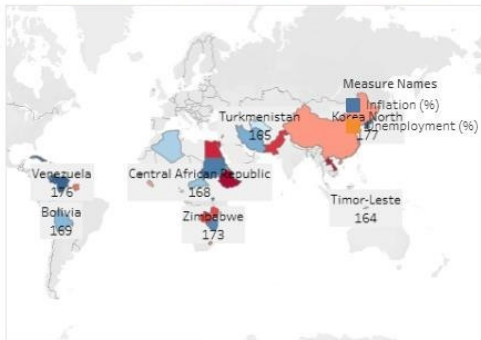
© 2025 Mapbox © OpenStreetMap

Correaltion of Countries Based on Inflation & UnEmployment

Least ranked contries of Economic index

Measure Names
- Inflation (%)
- Unemployment (%)

Index of Population

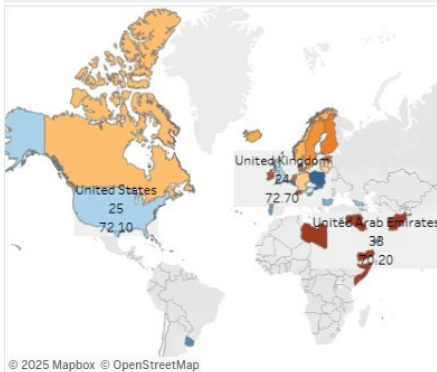| Country Name	
China	48.00
India	53.90
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Indonesia	64.40
Nigeria	54.40
Pakistan	48.80
Brazil	53.30
Bangladesh	52.70
Russia	56.10
Mexico	63.70
Japan	69.90
Ethiopia	49.60
Philippines	61.10
Egypt	49.10
Vietnam	60.60
Congo Democratic Republi..	47.60
Turkey	56.90
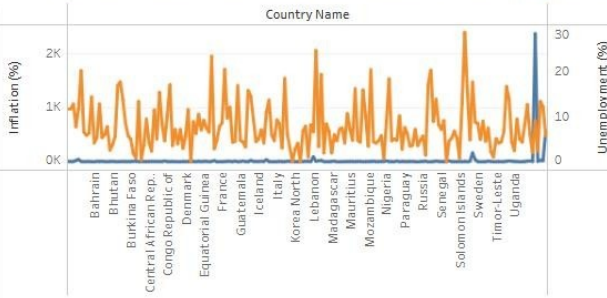
INSIGHTS OVERVIEW :

|- Countries like the **United States, Sweden, and Australia** scored high in economic freedom and stability.

|- **Venezuela, Algeria, and Central African Republic** show poor economic index scores due to high inflation and unemployment rates

|- **China, India, and the U.S.** lead in population, influencing their economic impact and policy priorities
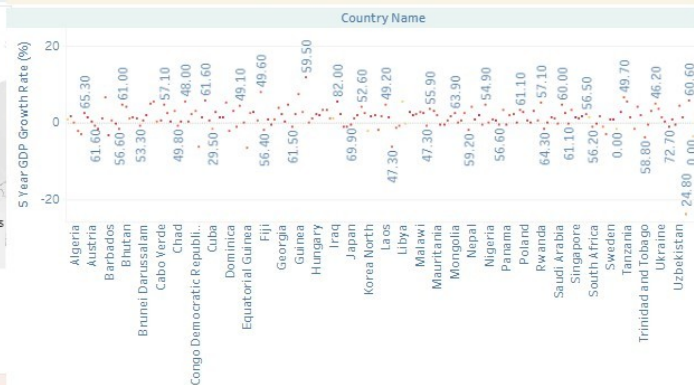

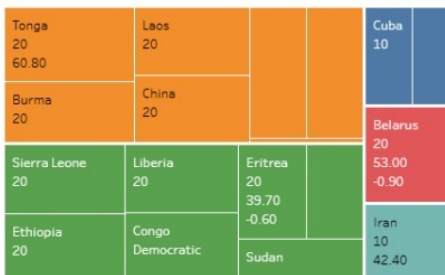## 📈 Global Rankings & Financial Freedom Impact Dashboard

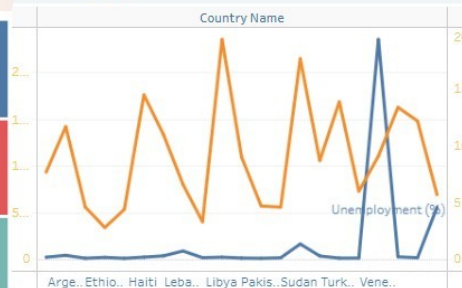### Top 40 Countries rank of Economy

© 2025 Mapbox © OpenStreetMap

index of 5 yrs GDP Rate

Financial Freedom of countries less than 25 of Economy index

Tonga 20 60.80	Laos 20	Cuba 10
Burma 20	China 20	Belarus 20 53.00 -0.90
Sierra Leone 20	Liberia 20	Eritrea 20 39.70 -0.60
Ethiopia 20	Congo Democratic	Iran 10 42.40
	Sudan	

Unemployment index on bases of Infaltion


INSIGHTS OVERVEW :

🌐 **Top 40 countries** are identified by economic index, with higher rankings seen in **North America** and parts of **Europe and Asia.**

📈 **5-year GDP growth trends** reveal uneven growth - some nations show strong improvement, while others face economic slowdown.

🔢 **Inflation and unemployment trends** show strong interdependency, especially in countries with economic instability

Journey Through the 2002 Global Economy

Country Name

Measure Names
■ Inflation (%)
■ Unemployment (%)
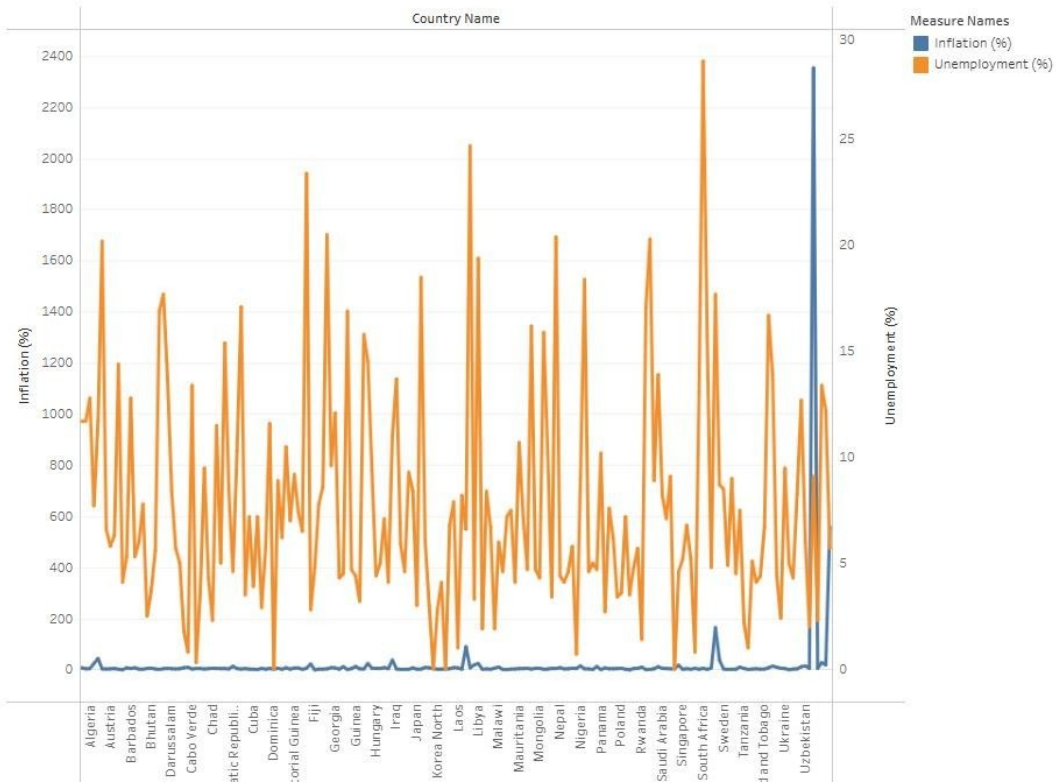
8. ADVANTAGES & DISADVANTAGES

Advantages

1. Data-Driven Insights
   Empowers users to make informed decisions using real-time, evidence-based economic indicators.

2. Interactive Visualization
   User-friendly dashboards allow for filtering by year, country, and economic sub-indices, making analysis accessible to non-technical users.

3. Multi-Stakeholder Utility
   Useful to policymakers, researchers, investors, and students alike, each gaining insights specific to their objectives.

4. Customizable & Scalable
   The modular architecture allows easy integration of new datasets, indicators, or visualization layers.

5. Open-Source & Cost-Efficient
   Built using open-source tools like Python, Plotly, and Streamlit, reducing development and deployment costs.

Disadvantages

1. Data Source Dependency
   The analysis is limited to the scope and accuracy of available datasets like those from the Heritage Foundation or World Bank.

2. Limited Real-Time Updates
   Economic freedom indices are not updated frequently, which may affect relevance for real-time policy decisions.

3. Technical Barriers for Non-Digital Users
   Despite being user-friendly, some stakeholders without digital literacy may find the platform less accessible.

4. Infrastructure Limitations
   Hosting and processing large datasets or high user traffic could require scaling the cloud infrastructure, leading to additional costs.

9. CONCLUSION:

The project "Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis" successfully demonstrates the power of data analytics and visualization in transforming static economic data into meaningful, actionable insights. By leveraging open-source tools and interactive dashboards, the platform bridges the gap between complex economic indicators and user-friendly interpretation.

This solution empowers policymakers, researchers, and investors to explore global economic trends, identify policy gaps, and make evidence-based decisions. The integration of filtering, correlation analysis, and exportable visualizations enhances the usability and adaptability of the system across various domains.

Through this initiative, we've laid a scalable foundation for deeper exploration of how economic freedom shapes prosperity—enabling smarter governance, more informed investment, and a clearer understanding of global economic landscapes.

10. FUTURE SCOPE

o Integration of Real-Time Economic Indicators
   Future versions of the platform can incorporate APIs for real-time data (e.g., GDP updates, inflation, employment) to enhance the system's relevance for ongoing policy and market analysis.
o Expanded Dataset Coverage
   The project can be extended to include regional/state-level data, enabling microeconomic analysis within countries and more localized policymaking insights.
o Machine Learning-Based Forecasting
   Implementing predictive models can help forecast future economic freedom scores or prosperity indicators based on historical patterns and current inputs.
o User Personalization and Notifications
   Future iterations could allow user accounts with saved filters, email alerts for new reports, or policy shifts relevant to selected countries.

11. APPENDIX

Dataset Link:

https://drive.google.com/file/d/1EBIa1LtM3Ni2Uh3nekLB6wt3263Q3NeX/view?usp=share_link

GitHub & Project Demo Link:

Project Demo Link:

https://drive.google.com/file/d/1PZOtpeTq_qFR2kWouP9-GgvB3vqhhyq3/view

GitHub Link:

https://github.com/manumagic143/Measuring-the-Pulse-of-Prosperity-An-Index-of-Economic-Freedom-Analysis/tree/main