

Project Development Phase
Model Performance Test

Date	28 June 2025
Team ID	LTVIP2025TMID50215
Project Name	Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis
Maximum Marks	

Model Performance Testing:

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

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	<p>The dashboard renders comprehensive country-level economic data including:</p> <ul style="list-style-type: none">- 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	<p>Preprocessing likely involved:</p> <ul style="list-style-type: none">- 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	<p>The dashboard extensively uses filters and interactive elements:</p> <ul style="list-style-type: none"> - 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.
		<ul style="list-style-type: none"> - 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	<p>Based on the metrics and visualizations, the following calculated fields are likely used:</p> <ul style="list-style-type: none"> - 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	<p>No of Visualizations / Graphs –</p> <p>The primary dashboard ("Dashboard 1" / "Global Rankings & Financial Freedom Impact Dashboard") contains at least 5 distinct visualizations/sections</p> <ul style="list-style-type: none"> - 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	<p>No of Visualizations / Graphs –</p> <p>The "Story" section ("Journey Through the 2002 Global Economy") explicitly shows 5 story points/pages, each potentially containing one or more visualizations:</p> <ul style="list-style-type: none"> - Story Point 1: 2022 Economic freedom score - Story Point 2: Top 40 ranking countries in the index -Story Point 3: Bottom ranking countries in the index -Story Point 4: Index score based on unemployment rate -Story Point 5: Index score based on financial freedom -Story Point 6: Index score based on population -Story Point 7: Index score based on 5 year on GDP growth rate(%) -Story Point 8: Inflation rate in different countries -Story Point 9: Correlation between inflation and unemployment -Story Point 10: Correlation between GDP(PPP) and monetary freedom -Story Point 11: Top 40 countries by GDP growth rate
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