

Project Development Phase

Performance Test

Date	Feb 2026
Team ID	LTVIP2026TMIDS86694
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	The original dataset titled index_of_economic_freedom.csv includes multiple economic indicators such as: Country Name, Region 2022 Score, Property Rights, Judicial Effectiveness, world rank and region rank, GDP per Capita, Unemployment (%), Inflation (%) Trade Freedom, Investment Freedom, Financial Freedom
2.	Data Preprocessing	Removed rows where key scores (e.g., 2022 Score, Property Rights) were 0 or missing. <ul style="list-style-type: none"> • Standardized country names (e.g., fixed capitalization or misspellings). • Converted numeric fields to correct data types (e.g., text → float). • Filtered out countries with incomplete economic data (e.g., Afghanistan had all 0s).
3.	Utilization of Filters	<p>The screenshot displays a dashboard titled "MEASURING THE PULSE OF PROSPERITY". It features four maps side-by-side:<ul style="list-style-type: none"> Top left: "2022 Economic Freedom score" map showing global economic freedom levels. Top right: "Top 40 Countries by GDP Growth rate" map showing the top 40 countries based on GDP growth rate. Bottom left: "Top 40 ranking countries" map showing the top 40 countries based on overall prosperity ranking. Bottom right: "Bottom Ranking Countries" map showing the bottom 40 countries based on overall prosperity ranking. Each map includes a legend and a copyright notice: "© 2023 Mapbox © OpenStreetMap". A green "NEXT" button is located at the bottom center of the dashboard.</p>

		<p style="text-align: center;">MEASURING THE PULSE OF PROSPERITY</p> <p>Correlation between Inflation and Unemployment</p> <table border="1"> <thead> <tr> <th>Country Name</th> <th>Inflation (%)</th> <th>Unemployment (%)</th> </tr> </thead> <tbody> <tr><td>Argentina</td><td>~1.2K</td><td>~1.5%</td></tr> <tr><td>Ethiopia</td><td>~0.8K</td><td>~0.5%</td></tr> <tr><td>Haiti</td><td>~1.5K</td><td>~1.5%</td></tr> <tr><td>Lebanon</td><td>~0.5K</td><td>~1.5%</td></tr> <tr><td>Libya</td><td>~1.8K</td><td>~1.5%</td></tr> <tr><td>Pakistan</td><td>~0.5K</td><td>~1.5%</td></tr> <tr><td>Sudan</td><td>~1.2K</td><td>~1.5%</td></tr> <tr><td>Turkey</td><td>~0.5K</td><td>~1.5%</td></tr> <tr><td>Venezuela</td><td>~1.5K</td><td>~20%</td></tr> <tr><td>Zambia</td><td>~0.5K</td><td>~1.5%</td></tr> </tbody> </table> <p>Index score based on Financial freedom</p> <table border="1"> <thead> <tr> <th>Tonga</th> <th>Laos</th> <th>Cuba</th> </tr> </thead> <tbody> <tr><td>Burma</td><td>China</td><td></td></tr> <tr><td>Sierra Leone</td><td>Liberia</td><td>Eritrea</td></tr> <tr><td>Ethiopia</td><td>Congo Democratic Republic of the</td><td>Sudan</td></tr> <tr><td></td><td></td><td>Iran</td></tr> <tr><td></td><td></td><td>Belarus</td></tr> </tbody> </table> <p>Index Score based on population</p> <table border="1"> <thead> <tr> <th>Country Name</th> <th>Population (Millions)</th> </tr> </thead> <tbody> <tr><td>Afghanistan</td><td>~35</td></tr> <tr><td>Armenia</td><td>~10</td></tr> <tr><td>Iran</td><td>~85</td></tr> <tr><td>Jordan</td><td>~30</td></tr> <tr><td>Korea, Rep.</td><td>~10</td></tr> <tr><td>Malaysia</td><td>~30</td></tr> <tr><td>New Zealand</td><td>~5</td></tr> <tr><td>North Korea</td><td>~5</td></tr> <tr><td>Suriname</td><td>~20</td></tr> <tr><td>Thailand</td><td>~35</td></tr> <tr><td>United Arab Emirates</td><td>~35</td></tr> <tr><td>Uzbekistan</td><td>~35</td></tr> <tr><td>Zimbabwe</td><td>~15</td></tr> </tbody> </table> <p style="text-align: right;">NEXT</p>	Country Name	Inflation (%)	Unemployment (%)	Argentina	~1.2K	~1.5%	Ethiopia	~0.8K	~0.5%	Haiti	~1.5K	~1.5%	Lebanon	~0.5K	~1.5%	Libya	~1.8K	~1.5%	Pakistan	~0.5K	~1.5%	Sudan	~1.2K	~1.5%	Turkey	~0.5K	~1.5%	Venezuela	~1.5K	~20%	Zambia	~0.5K	~1.5%	Tonga	Laos	Cuba	Burma	China		Sierra Leone	Liberia	Eritrea	Ethiopia	Congo Democratic Republic of the	Sudan			Iran			Belarus	Country Name	Population (Millions)	Afghanistan	~35	Armenia	~10	Iran	~85	Jordan	~30	Korea, Rep.	~10	Malaysia	~30	New Zealand	~5	North Korea	~5	Suriname	~20	Thailand	~35	United Arab Emirates	~35	Uzbekistan	~35	Zimbabwe	~15
Country Name	Inflation (%)	Unemployment (%)																																																																															
Argentina	~1.2K	~1.5%																																																																															
Ethiopia	~0.8K	~0.5%																																																																															
Haiti	~1.5K	~1.5%																																																																															
Lebanon	~0.5K	~1.5%																																																																															
Libya	~1.8K	~1.5%																																																																															
Pakistan	~0.5K	~1.5%																																																																															
Sudan	~1.2K	~1.5%																																																																															
Turkey	~0.5K	~1.5%																																																																															
Venezuela	~1.5K	~20%																																																																															
Zambia	~0.5K	~1.5%																																																																															
Tonga	Laos	Cuba																																																																															
Burma	China																																																																																
Sierra Leone	Liberia	Eritrea																																																																															
Ethiopia	Congo Democratic Republic of the	Sudan																																																																															
		Iran																																																																															
		Belarus																																																																															
Country Name	Population (Millions)																																																																																
Afghanistan	~35																																																																																
Armenia	~10																																																																																
Iran	~85																																																																																
Jordan	~30																																																																																
Korea, Rep.	~10																																																																																
Malaysia	~30																																																																																
New Zealand	~5																																																																																
North Korea	~5																																																																																
Suriname	~20																																																																																
Thailand	~35																																																																																
United Arab Emirates	~35																																																																																
Uzbekistan	~35																																																																																
Zimbabwe	~15																																																																																
4.	Calculation fields Used	<p>Average Rule of Law Score = average of Property Rights, Judicial Effectiveness, and Government Integrity</p> <ul style="list-style-type: none"> • $(\text{Property Rights} + \text{Judicial Effectiveness} + \text{Government Integrity}) / 3$ • Market Freedom Index = average of Trade, Investment, Financial Freedoms • Regulatory Efficiency Index = average of Labor, Monetary, Business Freedom • Prosperity Index (Custom) = Weighted score using 2022 Score, GDP per Capita, and Rule of Law Score • Purpose: These fields help build a multi-dimensional comparison beyond just one column (e.g., 2022 Score). 																																																																															
5.	Dashboard design	<p>No of Visualizations / Graphs - No of Visualizations / Graphs - 11</p> <ul style="list-style-type: none"> ❖ Interactive Filters: Region, Score Range, Economic Indicators ❖ Visuals Used: ❖ Bar Chart: Country vs. 2022 Score ❖ Map: Colored by Economic Freedom ❖ Line Chart: GDP per Capita vs Inflation ❖ Gantt bar : for index score of GDP growth rate 																																																																															
6	Story Design	<p>No of Visualizations / Graphs -No of Visualizations / Graphs -11</p> <ul style="list-style-type: none"> ❖ Introduction Slide: What is Economic Freedom? Why measure it? ❖ Data Insights Slide: Explain calculated indices like Rule of Law Index. ❖ Country Comparisons: Highlight top 5 and bottom 5 countries in freedom. 																																																																															

		<ul style="list-style-type: none">❖ Visual Storytelling: Charts showing how economic freedom links to GDP, debt, inflation.❖ Conclusion: Summary of which regions perform best and recommendations.
--	--	--