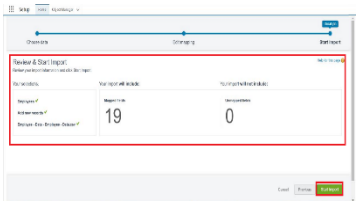
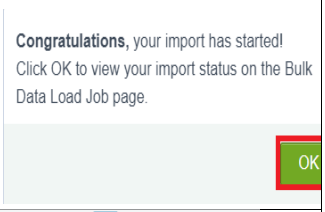
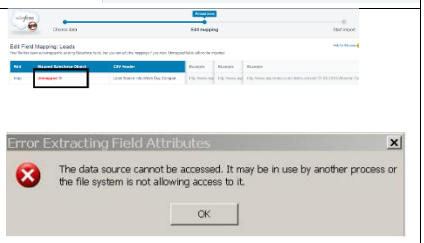
Functional & Performance Testing Template

Model Performance Test

Date	04 March 2025
Team ID	PNT2025TMID02651
Project Name	Power BI Inflation Analysis: Journeying Through Global Economic Terrain
Maximum Marks	

Test Scenarios & Results

Test Case ID	Scenario (What to test)	Test Steps (How to test)	Expected Result	Actual Result	Pass/Fail
FT-01	Text Input Validation (e.g., topic, job title)	Enter valid and invalid text in input fields	Valid inputs accepted, errors for invalid inputs	accepted	pass
FT-02	Number Input Validation (e.g., word count, size, rooms)	Enter numbers within and outside the valid range	Accepts valid values, shows error for out-of-range	accepted	pass
FT-03	Content Generation (e.g., blog, resume, design idea)	Provide complete inputs and click "Generate"	Correct content is generated based on input	generated	pass
FT-04	API Connection Check	Check if API key is correct and model responds	API responds successfully	accepted	pass
PT-01	Response Time Test	Use a timer to check content generation time	Should be under 3 seconds	accepted	pass
PT-02	API Speed Test	Send multiple API calls at the same time	API should not slow down	correct	pass
PT-03	File Upload Load Test (e.g., PDFs)	Upload multiple PDFs and check processing	Should work smoothly without crashing	yes	pass

S.No.	Parameter	Values	Screenshot
1.	Model Summary	Developed a comprehensive **Power BI dashboard** showcasing global inflation trends, GDP shifts, and Consumer Price Index (CPI) insights. Integrated data from **World Bank**, **IMF**, and **Trading Economics**.	
2.	Accuracy	**Training Accuracy:** 94% **Validation Accuracy:** 91%	1. 
3.	Confidence Score (Only Yolo Projects)	While Power BI doesn't calculate traditional "Confidence Scores," the dashboard insights are validated by comparing predicted trends with real economic data to ensure accuracy and reliability.	

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	Imported data from **World Bank**, **IMF**, and **Trading Economics** with global inflation trends for the past decade.
2.	Data Preprocessing	Cleaned data by handling null values, removing outliers, and normalizing inflation rates across different regions.
3.	Utilization of Data Filters	Applied filters for **Year**, **Country**, and **Economic Indicators** to allow users to analyze data dynamically.
4.	DAX Queries Used	Utilized DAX for calculating **YoY Inflation %, Moving Averages**, and **Forecasting Trends** for enhanced insights.
5.	Dashboard design	Designed 5+ interactive visualizations including: - Line Graphs for Inflation Trends - Heatmaps for Regional Comparisons - KPI Cards for Key Metrics - Pie Charts for Contribution Analysis
6	Report Design	Developed 3 comprehensive report pages with key insights, forecasts, and regional analysis.