Measuring the pulse of prosperity: An Index of Economic F reedom Analysis

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MAXIMUM MARKS	4 MARKS

6.2 Data Connectivity

Data connectivity plays a crucial role in the successful implementation of the project "Measuring the Pulse of Prosperity: An Index of Economic Freedom Analysis." Since the project depends on economic indicators collected from multiple global sources, proper data connectivity ensures that accurate and reliable information is available for analysis.

It involves the process of gathering, integrating, and managing datasets from different platforms into a single system for processing and visualization.
In this project, economic datasets are collected from internationally recognized organizations such as The Heritage Foundation, World Bank, and International Monetary Fund. These organizations provide country-wise economic indicators including economic freedom scores, GDP-related statistics, tax policies, trade openness, and financial data. Using these reliable sources ensures credibility and consistency in the project analysis

. The first step in data connectivity is data acquisition, where datasets are downloaded in formats such as CSV or Excel. After downloading, the data is organized using spreadsheet tools or programming languages like Python. This step also includes data cleaning, where missing values, duplicate entries, and formatting issues are corrected to improve accuracy.

The next step is data integration, where datasets from multiple sources are combined based on common fields such as country name or year. This integration helps create a structured dataset that supports comparative analysis across countries. The cleaned and integrated data may then be stored in a database such as MySQL for efficient retrieval and management.

Data connectivity also supports automated processing, where programming tools can directly import datasets and perform calculations or visualizations. This reduces manual work and improves efficiency in handling large datasets. Proper internet connectivity and access to official databases are essential for maintaining updated data throughout the project.