



ECONOMY DATA VISUALIZATION

A TOOL TO VISUALIZE THE ECONOMY

OBJECTIVE

- The main objective of this project is to create a software which can explain the complex parameters of economy to normal people easily using data visualization technology.
- This project will have many function to compare data of different economies as well as of different era.
- Apart from visualization this project will have many functions to add, delete and modify data.

CLASSES IN OUR PROJECTS

1 Development Indicator(Abstract Class)

- Value(Double)
- Year(Int)

2 Assets Indictor(Abstract Class)

- value(long)
- year(Int)

3 Exchange Rate

- value(Double)
- year(Int)

Functions

4

4 Deposit Interest Rate

- value(Double)
- year(Int)

5 CPI

- Year(Int)
- Value(Double)
- Inflation-Rate(Function)

6 GDP

- Value(long)
- Unit(Static)
- Year(int)
- Import percentage (double)
- Export percentage (double)
- Tax-Revenue Percentage (double)

7) Reserves

- Year(Int)
- Value(long)

8) Population

- Year(Int)
- Value(long)

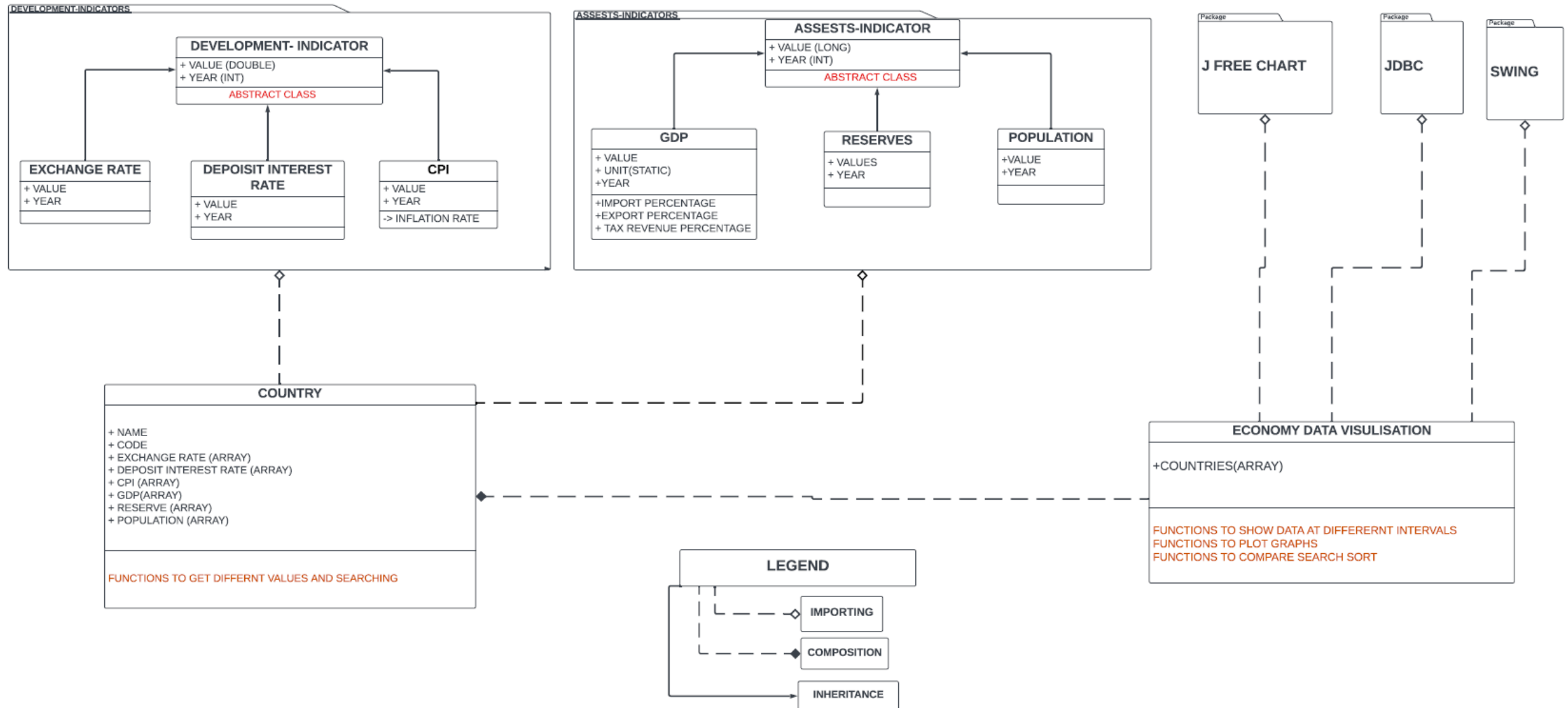
9)Country

- Name(String)
- Code (String)
- Exchange Rates (Array of Object)
- CPI's (Array of Object)
- Interest Rate (Array of Object)
- GDP's(Array Of Object)
- Reserves(Array Of Objects)
- Population's(Array Of Object)
- Functions to Get Data of Different Objects at different intervals of time.

10 Economy Data Visualization

- Array Of Country Object
- Function to take input from csv, implement database
- Implement GUI
- Function to Plots Graph for various parameters at different intervals of Time.
- Methods to take input from user to update database
- Functions of Searching and Sorting.

UML DIAGRAM OF PROJECT



TEAM MEMBERS AND THEIR ROLES

Aarav Nigam (S20210010002)

- Database Implementation
- GUI and Graph Plotting
- Implementation Of Data-Visualization Class

Parth Bhandari (S20210010170)

- GUI and Graph Plotting
- Schema Structuring
- Implementing Searching and Sorting Functions

3 Pratyush Singh (S20210010183)

- Handling Database Implementation
- Handling Data Import from CSV files
- Implementing functions to Update Data

4 Mohd Rizwan (S20210010150)

- Handling all Packages
- Creating major classes and its functions (Country Class, GDP class, Reserves class, CPI class etc.)
- Writing Documentation

5 Harshan Rathod (S20210010189)

- Creating Reserves, Interest Rate, Development Class
- Writing Documentation
- Creating Diagrams and Presentation.