**Currency Converter Documentation**

**Overview:**

The Currency Converter System is a command-line-based Java application that allows users to convert currencies in real-time using exchange rates obtained from a web API. Additionally, users can manage a list of favourite currencies, add new currencies to the list, update their exchange rates, and view the list of favourite currencies.

**Requirements:**

- Java Development Kit (JDK) installed (version 8 or later) and Eclipse IDE.

- Internet connectivity to fetch real-time exchange rates from the web API.

**Project Details:**

* Create new Project Directory CurrencyConverter.
* Declare Packages ex. “com.infotrixs.task”
* Create class Currency and CurrencyConverterApp.
* Compile and Execute the program using IDE.

**Features:**

1. Convert Currency:

- Option 1 on the menu allows users to convert currencies.

- Users will be prompted to enter the currency codes, and the amount to convert.

- The conversion result will be displayed.

2. Show Favourite Currencies:

- Option 2 on the menu displays the further options such add, view, update etc.

3. Add Favourite Currency:

- Option 1 on the favourite menu allows users to add a new currency to their favourite list.

- Users need to enter the currency code, and if valid, it is added to the list.

4. View Favourite Currency:

- Option 2 on the favourite menu allows users to view favourite currency to their user.

- Users need to enter the currency code, and if valid, it is added to the list.

5. Update Favourite Currency:

- Option 3 on the favourite menu allows users to update the exchange rate of a currency in their favourite list.

- Users need to select the currency to update and enter the new exchange rate.

6. Main Menu:

- Option 4 on the favourite menu returns user to main menu of the application.

7. Exit:

- Option 5 on the favourite menu Terminates the Application.

**Usage Instructions:**

1. Convert Currency:

- Select option 1 from the menu.

- Enter the source currency code, target currency code, and the amount to convert.

- View the converted amount.

2. Show Favourite Currencies:

- Select option 2 from the Favourite menu.

- View the menu of favourite currencies add, view, update, main menu, .

3. Add Favourite Currency:

- Select option 1 from the favourite menu.

- Enter the currency code to add to the favourites.

4. Update Favourite Currency:

- Select option 3 from the Favourite menu.

- Choose the currency to update and enter the new exchange rate.

5. Exit:

- Select option 3 from the main menu and option 5 from favourite menu to exit the application.

**API Endpoint:**

- The system uses the [Exchange Rate-API] (https://www.exchangerate-api.com/) to fetch real-time exchange rates. Replace the `API\_URL` constant in the code with your API endpoint if needed.