

Project Name : Currency Converter.

Team Name : Potential V

Members :

1. Hasmot Ali Hira – 42240201811
2. Tanvir Hossen - 42240201561
3. Maruf Hossen – 42240201563s
4. Md. Saurav Hossain - 42240201570
5. Md. Maruf Hossain - 42240201559

1. Project Overview: This project involves creating a simple currency converter using C++. The application will allow users to convert amounts between various currencies using predefined exchange rates. It is designed to provide a user-friendly tool for learning currency conversion basics and practicing core C++ programming concepts.

2. Objectives:

- To implement a basic currency converter using C++.
- To provide a user-friendly interface for inputting amounts and selecting currencies.
- To demonstrate fundamental C++ programming skills, including file handling, user input, and control structures.

3. Scope of the Project: The application will:

- Allow users to select source and target currencies from a predefined list.
- Accept user input for the amount in the source currency.
- Convert the amount to the target currency using static exchange rates.
- Display the converted value to the user.

4. Features:

- **User Interface:** A simple text-based interface for input and output.
- **Static Exchange Rates:** Predefined exchange rates stored in the program.
- **Error Handling:** Validation of user input to ensure valid currency codes.
- **Output Formatting:** Results displayed with proper formatting and precision.

5. Technical Details:

- **Programming Language:** C++
- **Libraries/Tools:** Standard C++ libraries for input/output and data handling.
- **Key Concepts:** Conditional statements, loops, functions, and data structures.

6. Timeline:

- **Week 1:** Analyze requirements and define the currency list with static exchange rates. Develop the basic functionality for currency input and conversion logic.
- **Week 2:** Implement error handling and format the output for better user experience. Test the application thoroughly, debug issues, and finalize the program.

7. Conclusion: This project serves as a practical introduction to C++ programming. By developing a simple yet functional currency converter, learners can solidify their understanding of key programming concepts and gain hands-on experience in building user-oriented applications.

Project Contribution:

Project Development	Tanvir Hossen , Maruf Hossen
Testing And Bug Fixing	Hasmot Ali Hira , Md. Saurav Hossain Md. Maruf Hossain