Currency Converter

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Abstract- The Currency Converter is a web-based application designed to facilitate real-time currency conversion between different global currencies. It aims to simplify the process of converting one currency into another based on live exchange rates. The primary users of this application include travelers, business professionals, students, and anyone involved in international trade or finance.

Developed using PHP, HTML, CSS, and JavaScript, the system fetches exchange rates and converts currencies instantly. The user-friendly interface allows users to select currencies, input amounts, and get immediate results, all while ensuring responsive design and minimal latency.

I. INTRODUCTION

In today's globalized world, currency exchange has become a daily necessity. Whether for travel, international business, or studying abroad, knowing the value of one currency in terms of another is essential.

The Currency Converter project aims to demonstrate the practical implementation of a live, user-friendly currency converter. It integrates an API for live exchange rates and showcases key web development techniques to build a smooth and interactive experience.

II. PROGRAMMING LANGUAGES USED

PHP

PHP is used for handling the server-side logic of the application. It manages API calls to retrieve exchange rates, processes user input, and returns results. It also facilitates error handling and ensures data integrity.

HTML

HTML is responsible for structuring the web interface. It provides the layout for currency selection dropdowns, input fields, and result display sections.

CSS

CSS is used to style the application, providing a clean and responsive user interface. It ensures that the app is visually appealing across different devices.

JavaScript

JavaScript enables dynamic updates without reloading the page. It is used to capture user events, trigger API calls, and display the conversion result instantly.

III. CONCLUSION

The Currency Converter project provided a comprehensive learning experience in integrating real-time APIs, managing server-side logic, and designing responsive user interfaces. The application showcases the ability to solve real-world problems through modern web technologies.

Key learning outcomes included working with external APIs, managing asynchronous operations using JavaScript, handling data securely with PHP, and developing a responsive front-end using HTML and CSS.

REFERENCES

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- [2] https://www.php.net
- [3] https://developer.mozilla.org https://getbootstrap.com https://stackoverflow.com
- [4] **Converter Logic**: JavaScript calculates conversion based on user input and exchange rates.
- [5] **Error Handling**: Validates inputs and ensures proper data flow.