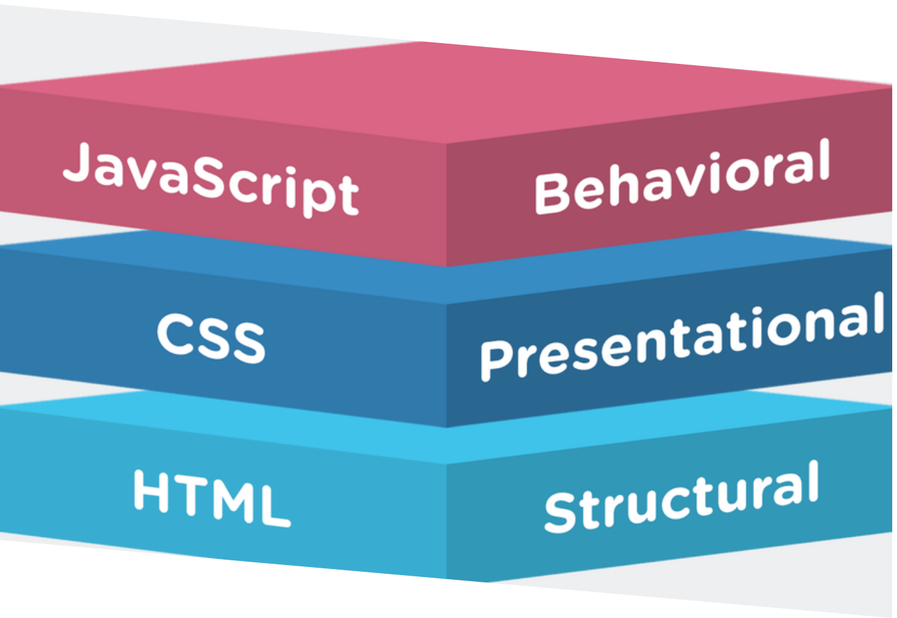
CURRENCY CONVERTER

USING HTML,CSS AND JAVASCRIPT



SADHANA SHRI R
99220040717

INTRODUCTION

In the modern world, the need for currency conversion tools is paramount for individuals and businesses alike. This project aims to develop a user-friendly currency converter using HTML, CSS and JavaScript. The converter will allow users to seamlessly convert between different currencies based on real-time exchange rates. Through JavaScript, the converter will fetch the latest exchange rates from a reliable API source, enabling accurate and up-to-date conversions.

ABOUT SOFTWARE TOOL

Text Editor or Integrated Development Environment(IDE):

Visual Studio Code (VS Code): A popular and lightweight code editor with excellent support for HTML, CSS, and JavaScript.

Extensions Installation in VS Code:

1. Live Server – to host the local server website
2. Live Preview - Hosts a local server in your workspace for you to preview your webpages on.

USAGE OF TOOLS

Visual Studio Code (VS Code) is an excellent choice for HTML, CSS, and JavaScript development. Its intuitive interface and robust features streamline coding tasks, with syntax highlighting and auto-completion enhancing productivity. With integrated Git support, managing version control is seamless.

Extensions like Live Server provide real-time preview of HTML and CSS changes, while debugging tools ensure smooth JavaScript development.

REPORTED LITERATURE

HTML, CSS, and Javascript for Web Developers

BY

JOHNS HOPKINS UNIVERSITY

Instructor: Yaakov Chaikin

OBJECTIVE OF PROJECT

1. Accessibility: Ensure the currency converter is easy to use

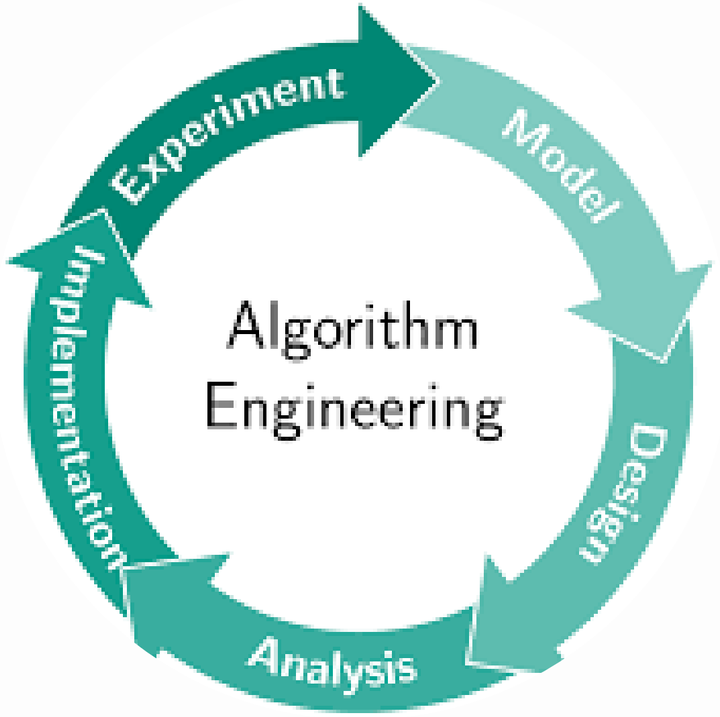
2. Accuracy: Provide accurate and up-to-date exchange rates to ensure precise currency conversions.

3. Efficiency: Enable swift conversions with minimal user input, utilizing features such as auto-updating exchange rates and real-time calculations.

4. Customization: Allow users to select their desired currencies and input amounts, with options for customization such as favorite currencies or historical exchange rates.

5. Responsiveness: Ensure the currency converter is responsive and compatible across various devices and screen sizes.

USED ALGORITHM



The algorithm for a currency converter using HTML, CSS, and JavaScript typically involves the following steps:

- **Fetch Exchange Rates**
- **Display Currency Options**
- **Input Amount**
- **Calculate Conversion**
- **Display Result**

WORK DONE IN STEP BY STEP

HTML Structure

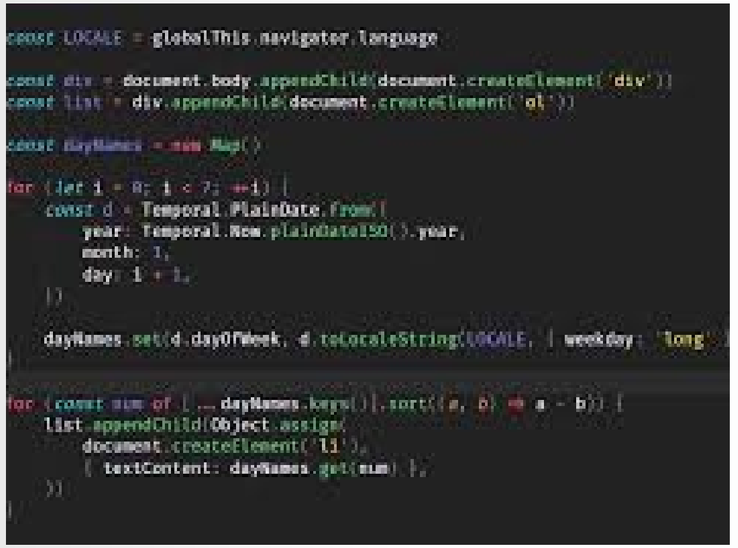
- Create an HTML file (index.html) to hold the structure of the currency converter.
- Inside the HTML file, set up the necessary elements such as <select> dropdowns for selecting currencies, an <input> field for entering the amount to convert, a button to trigger the conversion, and a to display the result.

CSS Styling

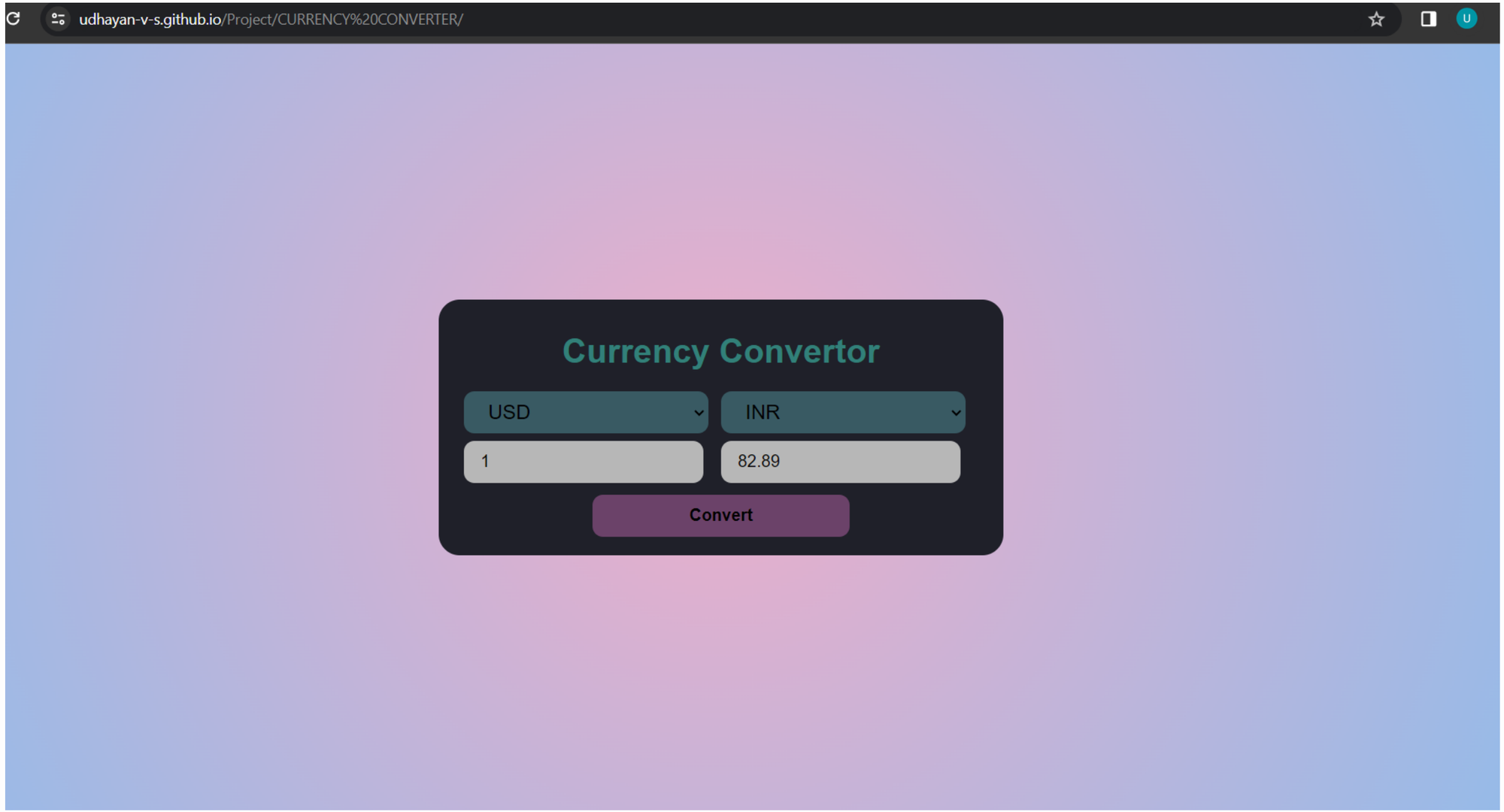
- Style the elements of the currency converter using CSS to improve the visual appearance and layout.
- Apply CSS rules to adjust the size, color, font, and positioning of the elements to create a user-friendly interface.

JavaScript Functionality

- Write JavaScript functions to handle the conversion process.
- Define a function to fetch exchange rates from an API using AJAX or Fetch API.
- Implement a function to calculate the converted amount based on the selected currencies and the exchange rates fetched from the API.



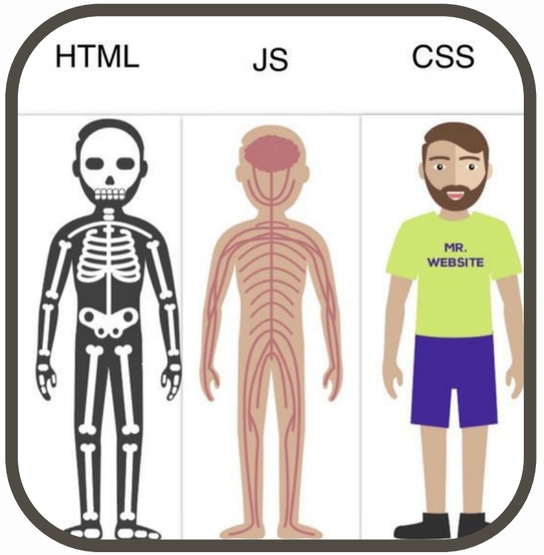
RESULT


udhayan-v-s.github.io/Project/CURRENCY%20CONVERTER/
Currency Convertor
USD
INR
1
82.89
Convert

SUMMARY

HTML:

- Provides the structure of the currency converter, defining elements such as dropdowns, input fields, buttons, and result displays.



CSS:

- Styles the HTML elements to enhance the appearance and layout of the currency converter.
- Applies rules for color, font, size, spacing, and positioning to create a visually appealing and user-friendly interface.

JavaScript:

- Adds functionality to the currency converter, enabling dynamic behavior and interaction.
- Fetches exchange rates from an API using AJAX or Fetch API, providing up-to-date conversion rates.
- Calculates converted amounts based on user input (selected currencies and amount to convert) and exchange rates.

REFERENCES

1. https://www.coursera.org/learn/html-css-javascript-for-web-developers/home/week/1
2. https://github.com/SadhanaShriR/SadhanaShriR.github.io/tree/main/Project/CURRENCY%20CONVERTER

THANK YOU