The basic calculator

Here's a structured README file for a Basic Calculator project. This document will guide users and contributors on how to understand, install, and use your project.

Basic Calculator

Project Overview

This project is a basic calculator implemented using HTML, CSS, and JavaScript. The calculator can perform basic arithmetic operations such as addition, subtraction, multiplication, and division. This project will help you practice your front-end development skills and enhance your understanding of web technologies.

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Project Objectives

- Create a user-friendly interface for the calculator using HTML and CSS.

- Implement the calculator functionality using JavaScript.

- Ensure that the calculator is responsive and works on both desktop and mobile devices.

- Handle basic arithmetic operations: addition, subtraction, multiplication, division, and percentage.

- Implement proper error handling, such as division by zero.

Features

- **Arithmetic Operations**: Perform addition, subtraction, multiplication, and division.

- **Percentage Calculation**: Calculate percentages.

- **Clear Functionality**: Clear the display and start a new calculation.

- **Responsive Design**: Works on various screen sizes including mobile devices.

Technologies Used

- **HTML**: To create the structure of the calculator.

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- **CSS**: For styling the calculator and ensuring a responsive design.

- **JavaScript**: To implement the calculator functionality and handle user interactions.

Installation

To get a local copy of the project up and running, follow these steps:

1. **Clone the repository**:
   ```bash
LINK:

2. **Navigate to the project directory**:
   ```bash
   cd basic-calculator
   ```

3. **Open `index.html` in your preferred web browser**:
   ```bash
   open index.html

## Usage
1. Open the calculator in your web browser.
2. Use the buttons to enter numbers and perform calculations.

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3. Use the clear button to reset the display.

4. Perform basic arithmetic operations and percentage calculations.

## Project Structure

basic-calculator/

├── index.html      # HTML file that contains the structure of the calculator

├── styles.css      # CSS file for styling the calculator

├── script.js      # JavaScript file for calculator functionality

└── README.md       # Project documentation

## Calculator Functionality

- **Display Input and Results**: Show the entered numbers and results of calculations.

- **Basic Operations**: Addition, subtraction, multiplication, and division.

- **Percentage Calculation**: Calculate the percentage of a number.

- **Clear Display**: Clear the current input and start a new calculation.

- **Error Handling**: Display error messages for invalid operations (e.g., division by zero).

### JavaScript Functions

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- `updateDisplay(value)`: Updates the display with the given value.

- `clearDisplay()`: Clears the display.

- `calculate()`: Performs the calculation based on the current input and operator.

- `handleOperator(operator)`: Handles the input of operators.

- `handleNumber(number)`: Handles the input of numbers.

- `handlePercentage()`: Calculates the percentage of the current input.

## Responsive Design

The calculator is designed to be responsive and works on various screen sizes, including both desktop and mobile devices. This is achieved using CSS media queries and flexible layout techniques.

## Contributing

Contributions are welcome! If you have any suggestions, bug reports, or feature requests, please create an issue or submit a pull request. Follow these steps to contribute:

1. Fork the repository.

2. Create a new branch (`git checkout -b feature-branch`).

3. Commit your changes (`git commit -m 'Add some feature'`).

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4. Push to the branch (`git push origin feature-branch`).

5. Open a pull request.


## License


This project is licensed under the MIT License. See the [LICENSE](LICENSE) file for details.
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Summary

This README file includes all the necessary sections to help users understand and use your basic calculator project