

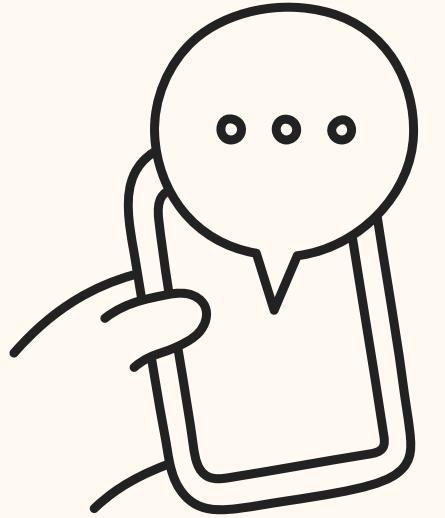
WEB DEVELOPMENT PROJECT OVERVIEW



PROJECT
NAME

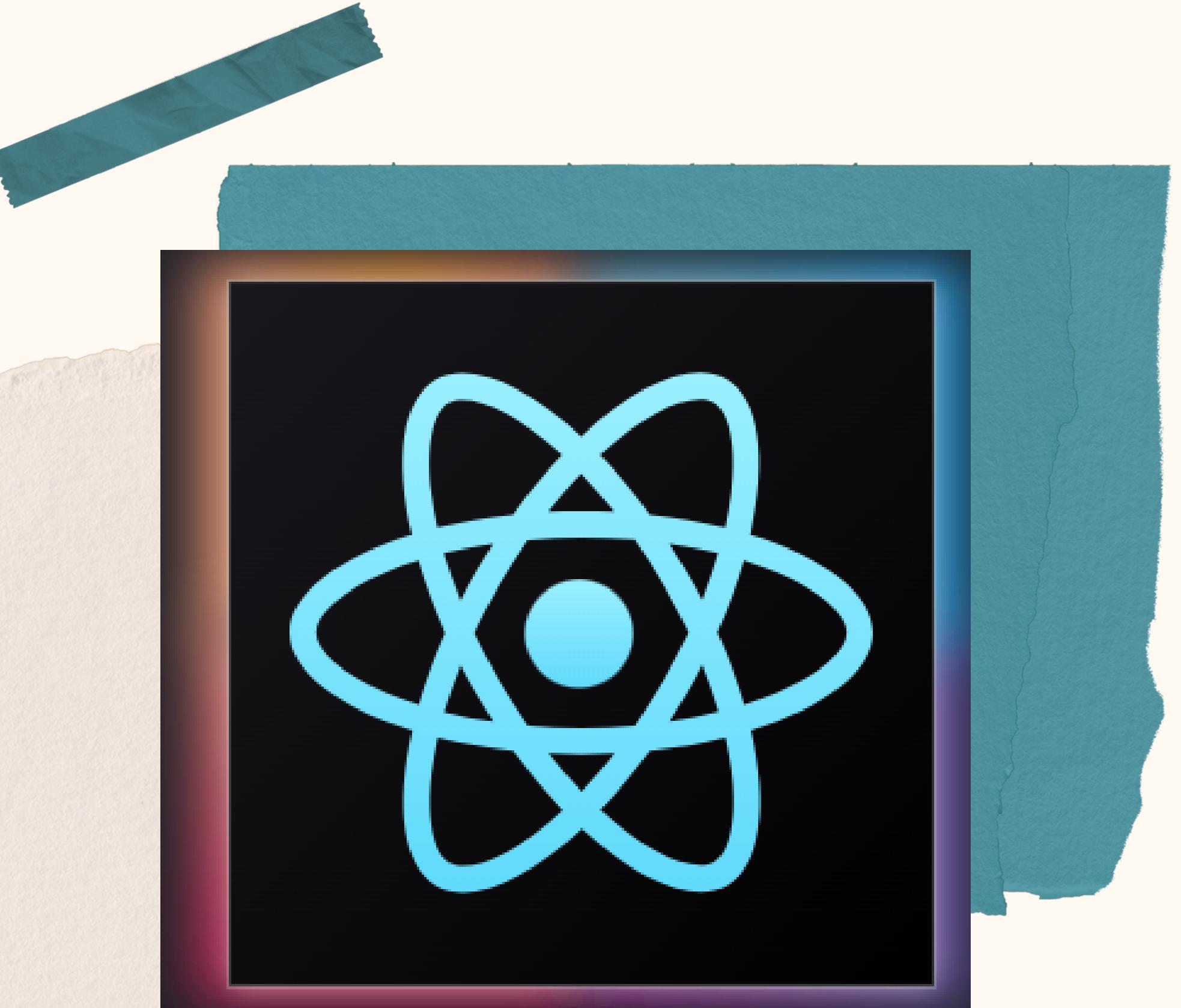
Calculator
Application

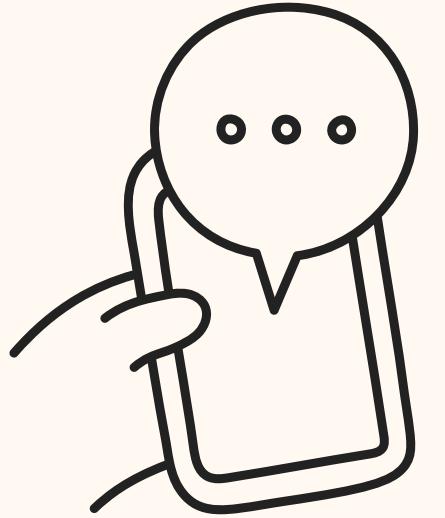




Description

This web application is a calculator that allows users to perform basic arithmetic operations (addition, subtraction, multiplication, division) on numbers. It provides a user-friendly interface for entering digits and performing calculations.





Technologies Used

- Frontend Framework: React
- Styling: CSS (with some external styling libraries)
- Version Control: Git (with GitHub for repository hosting)
- Package Management: npm (Node Package Manager)
- Code Editor: Visual Studio Code



5

State Management: -
State is managed using
the `useReducer` hook,
ensuring predictable and
controlled updates.

1

.Basic Arithmetic
Operations: - Addition,
subtraction,
multiplication, and
division operations are
supported.

2

Clear and Delete
Functionality: - Users can
clear the display or delete
the last entered digit

Features

3

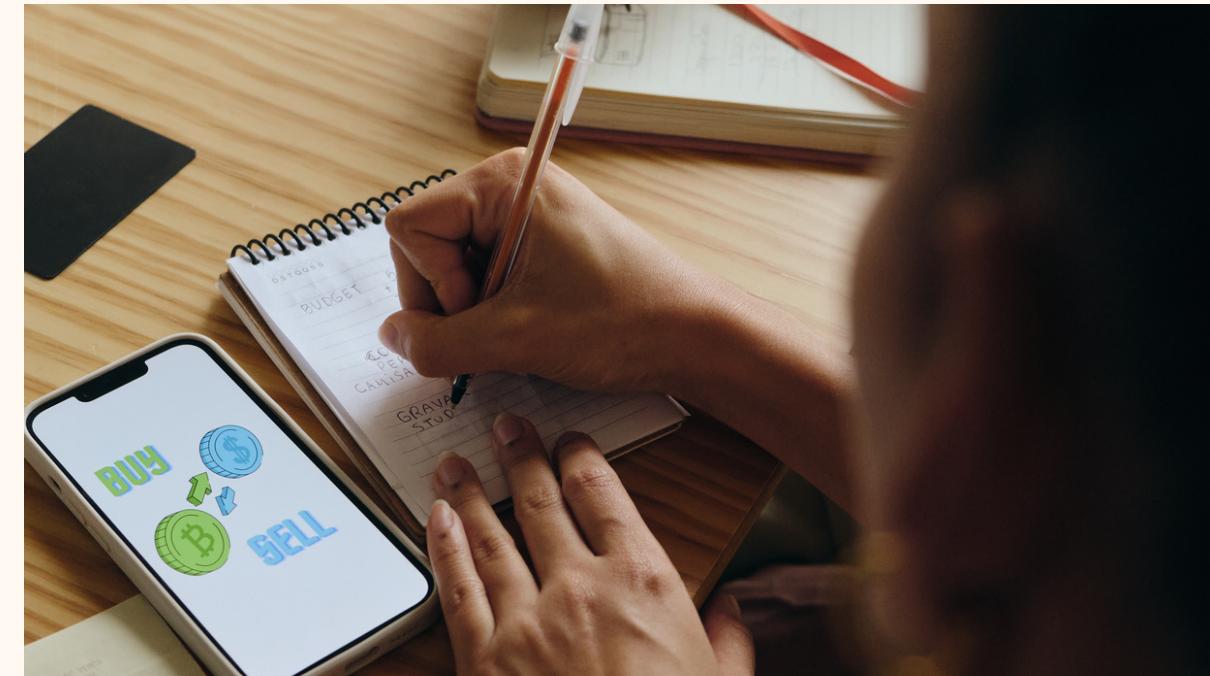
Decimal Point Handling:
- The application
ensures that only one
decimal point can be
entered in a number.

4

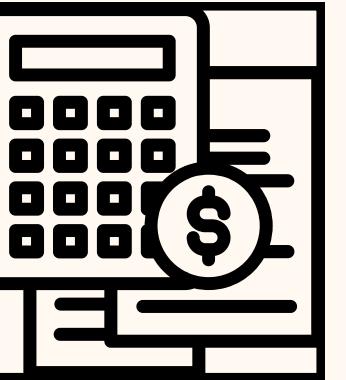
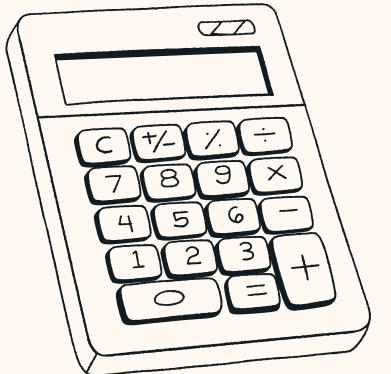
Error Handling: - The
application is designed to
handle edge cases and
prevent invalid input.

Code Structure

- Component-Based Architecture:
The application is built using a component-based architecture. Each component handles a specific aspect of the UI (e.g., buttons, display).
- Reducer for State Management:
State is managed using a reducer function, which processes actions and returns a new state based on the action type.
- Spread Operator for Immutability:
The spread operator (`...`) is used to create new state objects, ensuring immutability and predictable state updates.



Future Improvements



+ -
× ÷

1

- 1. Unit Conversion:
 - a. Implement features for unit conversions (e.g., length, weight, temperature).

2

- 1. Graphing Functions:
 - a. Add the ability to graph mathematical functions.

3

- 1. Accessibility Improvements:
 - a. Enhance accessibility features to make the calculator usable for individuals with disabilities.

PROJECT SCREENSHOT

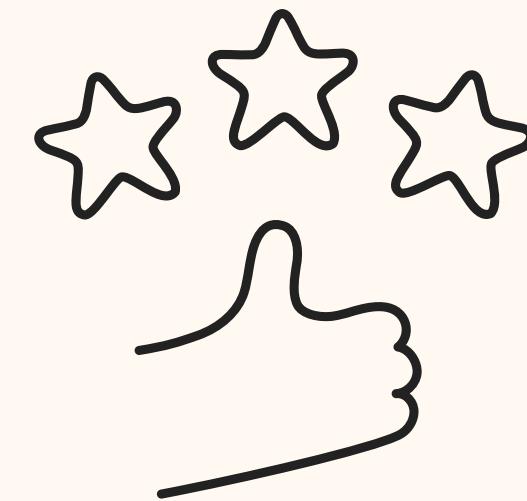
AC	DEL	÷
1	2	3
4	5	6
7	8	9
.	0	=

			2 *
			6
AC	DEL	÷	
1	2	3	*
4	5	6	+
7	8	9	-
.	0		=

			12
AC	DEL	÷	
1	2	3	*
4	5	6	+
7	8	9	-
.	0		=

2

	AC	DEL	÷
1	2	3	*
4	5	6	+
7	8	9	-
.	0		=
sin	cos	tan	sqrt
exp	MS	MR	MC



THANK YOU

Contact us if you are interested in our project.