

# Calculator App

A simple calculator application built with React + Vite and styled using Material UI. The app supports basic arithmetic operations with a modern and responsive UI.

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## Features

- **Basic Operations:** Supports addition, subtraction, multiplication, and division.
  - **Result Handling:** Automatically clears the previous result when the user begins a new calculation.
  - **Modern Design:** Implements Material UI components with a minimalist color scheme.
  - **Responsive Layout:** Fully responsive and adapts to various screen sizes.
  - **Keyboard-Like Interface:** A 4x4 grid layout for easy number and operation input.
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## Color Scheme

### Primary Colors

- **Dark Gray / Charcoal (#2C2C2C):** Used as the app background for reduced eye strain.
- **White (#FFFFFF):** Used for text and whitespace to create a clean, minimalist look.

### Accent Colors

- **Deep Blue (#0A74DA):** Buttons for primary actions like increment and decrement.
- **Emerald Green (#3C8D40):** Used sparingly to indicate success, such as the reset button.

### Secondary Accent Colors

- **Soft Orange (#FF9F00):** Used for hover states to highlight interactivity.
  - **Light Gray (#F4F4F4):** Background for the counter display and card components.
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## Typography

- **Headings:** Serif font (e.g., Georgia, Times New Roman) to convey professionalism.
  - **Body Text:** Sans-serif font (e.g., Roboto, Arial) for readability.
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## Installation and Setup

Follow these steps to run the Counter App on your local machine:

### Prerequisites

- Node.js (v14 or higher)
- npm or yarn

### Steps

1. Clone the repository:  
git clone <https://github.com/your-username/counter-app.git>  
cd counter-app
  2. Install dependencies:  
npm install
  3. Start the development server:  
npm run dev
  4. Open the app in your browser:  
<http://localhost:5173>
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## File Structure

```
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├── src
│   ├── App.jsx      # Main component with counter logic
│   ├── main.jsx     # React entry point
│   ├── index.css    # Global styles
│   └── components   # Additional reusable components (if any)
├── public           # Static assets
├── package.json     # Project metadata and dependencies
└── vite.config.js   # Vite configuration
```

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## Technologies Used

- **React:** Front-end library for building user interfaces.
  - **Vite:** Build tool for fast development and bundling.
  - **Material UI:** Component library for responsive and accessible UI design.
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## Acknowledgments

- React Documentation
  - [Material UI Documentation](#)
  - [Vite Documentation](#)
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## Contact

For any questions or feedback, feel free to reach out:

- **Name:** Vatsal Devre
- **Email:** [vdevre@outlook.com](mailto:vdevre@outlook.com)
- **GitHub:** <https://github.com/VDevre18>