

# Counter App

A simple counter application built with **React + Vite** and styled using **Material UI**. The app demonstrates basic React state management with an intuitive and modern UI design.

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## Features

- **Increment & Decrement:** Increase or decrease the counter value with buttons.
  - **Reset Functionality:** Reset the counter to its initial value.
  - **Modern Design:** Styled using Material UI with a professional and accessible color scheme.
  - **Responsive Layout:** Fully responsive design for mobile and desktop devices.
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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

Clone the repository:

```
git clone https://github.com/your-username/counter-app.git  
cd counter-app
```

1.

Install dependencies:

```
npm install
```

2.

Start the development server:

```
npm run dev
```

3.

Open the app in your browser:

```
http://localhost:5173
```

4.

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## Usage

1. **Increment the Counter:** Click the **+** button to increase the counter value.
  2. **Decrement the Counter:** Click the **-** button to decrease the counter value.
  3. **Reset the Counter:** Click the **Reset** button to reset the counter to zero.
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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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## Future Improvements

- Add animations for button interactions.
  - Persist the counter value using local storage.
  - Add keyboard shortcuts for increment, decrement, and reset actions.
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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:

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