

# Assignment : Event Handling

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## Scenario:

You are tasked with building a simple Voting application where users can vote for their favorite option. The application will allow users to click buttons to cast their votes, and the total number of votes for each option will be displayed.

This assignment will help you practice event handling in React with TypeScript.

## Requirements:

- Project Setup:
- Create a new React project with a TypeScript template and name it VotingApp.
- Component Structure:
- ❖ Create a VoteButton Component:
  - This component should receive a label (e.g., "Option A") and a function to handle the vote as props.
  - The component should render a button with the label.
  - When the button is clicked, it should trigger the event handler passed as a prop.
- ❖ Create a Results Component:
  - This component should receive the total votes for each option as props.
  - It should display the current vote count for each option.
- ❖ Create an App Component:
  - This component should manage the state for the votes of each option.
  - It should include two VoteButton components (one for each voting option) and a Results component to display the vote counts.
  - Pass the appropriate event handlers and vote counts as props to the VoteButton and Results components.

## Tasks:

### ➤ Event Handling:

- Implement the VoteButton component to handle the button click event. When the button is clicked, it should increment the vote count for the corresponding option.

### ➤ State Management:

- Implement the state management in the App component to keep track of the votes for each option.
- Create separate event handler functions in the App component for handling votes for each option.

### ➤ Displaying Results:

- Implement the Results component to display the current vote count for each option.

### ➤ Expected Outcome:

- A simple voting application where users can click buttons to vote for their favorite option.
  - The current vote counts should be displayed and updated in real-time as users cast their votes.
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