**Stopwatch Application**

**Project Overview:-**

This project is a stopwatch application developed using React. It includes three main functionalities controlled by buttons: Start, Pause, and Reset. The timer increments every second when running and stops or resets based on the user's interaction.

**Features Implemented:-**

Start Button: Begins the timer by initiating a time interval.

Pause Button: Stops the timer without resetting the time value.

Reset Button: Resets the timer value to zero and stops any active intervals.

**Technologies Used:-**

React

JavaScript

CSS

**React Concepts Applied:-**

JSX:-

JSX was used to write HTML-like syntax directly in the React component, enabling a cleaner and more readable structure of the UI.

UseState:-

The useState hook was used to manage the stopwatch's time state and the interval reference. This allowed the application to re-render and display updated time values when the state changed.

Components:-

The application was structured using a single functional component (App) which handled the timer logic and rendered the buttons and time display. All functionality was encapsulated inside this component, illustrating the component-based architecture of React.

**Summary:-**

The stopwatch works by updating the timer state every second using setInterval when the start button is clicked. The pause button clears the interval, and the reset button both clears the interval and resets the time to zero. This project provided a practical implementation of React fundamentals including JSX, useState, and component structure.