

Subject code & Name	:	CS381 & Full Stack Development	Practical	:	4	Academic Year	:	2023-2024
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Practical – 4

Aim

Create a Counter App that includes the functionality of Increment, Decrement, Reset, and Increment Five. The app also has two text boxes for first and surname names, the contents of which are shown as text on the same page. Utilize the React Hooks idea

Code

GitHub Repository: <https://github.com/Dhruvpatel004/FSD/tree/main/PR4>

App.js

```
import './App.css';
import Counter from './Counter';

function App() {
  return (
    <div className="App">
      <Counter/>
    </div>
  );
}

export default App;
```

Counter.js

```
import React, { useState } from "react";

function Counter() {
  const [count, setCount] = useState(0);

  const [firstName, setFirstName] = useState('');
  const [lastName, setLastName] = useState('');

  const handleIncrementFive = () => {
    for (let i = 0; i < 5; i++) {
      setCount(prevCount => prevCount + 1);
    }
  };
}
```

```
    }  
  };  
  
  const resetCount = () => {  
    setCount(0);  
  };  
  
  const handleIncrement = () => {  
    setCount(count + 1);  
  }  
  
  const handleDecrement = () => {  
    setCount(count - 1);  
  }  
  
  const handleFirstNameChange = (event) => {  
    setFirstName(event.target.value);  
  };  
  const handleLastNameChange = (event) => {  
    setLastName(event.target.value);  
  };  
  return (  
    <>  
      <div>  
        <h1>Count: {count}</h1>  
        <button onClick={resetCount}>Reset</button>  
        <button onClick={handleIncrement}>Increment</button>  
        <button onClick={handleDecrement}>Decrement</button>  
        <button onClick={handleIncrementFive}>Increment 5</button>  
      </div>  
      <br />  
      <div>  
        <h1>Welcome to CHARUSAT!!!</h1>  
        <div>  
          <label htmlFor="firstName">First Name: </label>  
          <input type="text"  
            id="firstName"  
            value={firstName}  
            onChange={handleFirstNameChange}  
          />  
        </div>  
        <div>  
          <label htmlFor="lastName">Last Name: </label>  
          <input  
            type="text"
```

```
        id="lastName"
        value={lastName}
        onChange={handleLastNameChange}
      />
    </div>
    <div>
      <p>First Name: {firstName}</p>
      <p>Last Name: {lastName}</p>
    </div>
  </div>
</>
);
}

export default Counter;
```

Output

GitHub live page: <https://dhruvpatel004.github.io/FSD/PR4/>

Count: 7

ResetIncrementDecrementIncrement 5

Welcome to CHARUSAT!!!

First Name:

Last Name:

First Name:

Last Name:

4.1 Counter Output (Increment 2 times, Increment 5 once)

Count: 0

Welcome to CHARUSAT!!!

First Name:

Last Name:

First Name:

Last Name:

4.2 Counter output after Reset

Count: -2

Welcome to CHARUSAT!!!

First Name:

Last Name:

First Name:

Last Name:

4.3 Counter output after Decrement 2 times

Count: -2

Welcome to CHARUSAT!!!

First Name:

Last Name:

First Name: Dhruv

Last Name: Patel

4.4 Name as in Input Field

Signature :