

## Hands-on 8

### Objectives

- Explain React State

In this hands-on lab, you will learn how to:

- Use React State object

### Prerequisites

The following is required to complete this hands-on lab:

- Node.js
- NPM
- Visual Studio Code

### Notes

Estimated time to complete this lab: **60 minutes**.

**Create a React App “counterapp” which will have a component named “CountPeople” which will have 2 methods.**

**UpdateEntry() → which will display the number of people who entered the mall.**

**UpdateExit() → which will display the number of people who exited the mall.**

**Use Constructor and state to Store the entrycount and exitcount.**

**The component has 2 buttons**

1. **Login → when clicked, the entrycount should get incremented by 1**
2. **Exit → when clicked, the exitcount should get incremented by 1**

```
constructor() {  
  super();  
  this.state = {  
    entrycount: 0,  
    exitcount: 0,  
    c: 0  
  };  
}  
  
updateEntry() {  
  this.setState((prevState, props) => {  
    return { entrycount: prevState.entrycount + 1 }  
  });  
}  
  
updateExit()  
{  
  this.setState((prevState, props) =>  
  {  
    return {exitcount: prevState.exitcount+1}  
  })  
}
```

The output should be as follows:



**Implementation:**

#### App.js

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

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

```
export default App;
```

#### CountPeople.js

```
import React, { Component } from 'react';
```

```
class CountPeople extends Component {
  constructor(props) {
    super(props);
    this.state = {
      entrycount: 0,
      exitcount: 0
    };
  }
```

```
  UpdateEntry = () => {
    this.setState(prevState => ({
```

```

        entrycount: prevState.entrycount + 1
      }));
    };

    UpdateExit = () => {
      this.setState(prevState => ({
        exitcount: prevState.exitcount + 1
      }));
    };

    render() {
      return (
        <div style={{ textAlign: 'center', marginTop: '50px' }}>
          <h1>Mall Entry/Exit Counter</h1>
          <h2>People Entered: {this.state.entrycount}</h2>
          <h2>People Exited: {this.state.exitcount}</h2>
          <button onClick={this.UpdateEntry} style={{ marginRight: '10px', padding: '10px' }}>Login</button>
          <button onClick={this.UpdateExit} style={{ padding: '10px' }}>Exit</button>
        </div>
      );
    }
  }
}

export default CountPeople;

```

### Output:

