

ASSIGNMENT -3:

“STATE CLASS”

CODING:

Boolean:

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

class BooleanStateClassComponent extends Component {

  constructor(props) {

    super(props);

    // Initialize state with a boolean value

    this.state = {

      isToggled: false,

    };

    // Bind event handler method if needed

    this.handleClick = this.handleClick.bind(this);

  }

  // Event handler method to toggle the boolean value

  handleClick() {

    // Update state by toggling the boolean value

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

```

        isToggled: !prevState.isToggled,
    }));
}
render() {
    return (
        <div>
            <p>Toggle State: {this.state.isToggled ? 'True' : 'False'}</p>
            <button onClick={this.handleClick}>Toggle</button>
        </div>
    );
}
}

```

export default BooleanStateClassComponent

State class using form:

```

import React, { Component } from 'react';
class FormStateClassComponent extends Component {
    constructor(props) {
        super(props);
        // Initialize state with form fields
        this.state = {
            firstName: '',
            lastName: '',

```

```
    email: "",

    };

// Bind event handler methods if needed

    this.handleChange = this.handleChange.bind(this);

    this.handleSubmit = this.handleSubmit.bind(this);

}

// Event handler method to update state on input change

handleChange(event) {

    const { name, value } = event.target;

// Update state with the new input value

    this.setState({

        [name]: value,

    });

}

// Event handler method for form submission

handleSubmit(event) {

    // Prevent the default form submission behavior

    event.preventDefault();

// Perform actions with form data (in this case, just logging to the console)

    console.log('Form submitted with state:', this.state);

}

render() {
```

```
return (  
  <div>  
    <form onSubmit={this.handleSubmit}>  
      <label>  
        First Name:  
        <input  
          type="text"  
          name="firstName"  
          value={this.state.firstName}  
          onChange={this.handleChange}  
        />  
      </label>  
      <br />  
      <label>  
        Last Name:  
        <input  
          type="text"  
          name="lastName"  
          value={this.state.lastName}  
          onChange={this.handleChange}  
        />  
      </label>
```

```
<br />
```

```
<label>
```

```
Email:
```

```
<input
```

```
  type="email"
```

```
  name="email"
```

```
  value={this.state.email}
```

```
  onChange={this.handleChange}
```

```
 />
```

```
</label>
```

```
<br />
```

```
<button type="submit">Submit</button>
```

```
</form>
```

```
</div>
```

```
);
```

```
}
```

```
}
```

```
export default FormStateClassComponent;
```

STATE CLASS USING STRING:

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

```
class StringStateClassComponent extends Component {
```

```
constructor(props) {  
  super(props);  
  // Initialize state with a string value  
  this.state = {  
    message: 'Hello, React!',  
  };  
  // Bind event handler methods if needed  
  this.handleChange = this.handleChange.bind(this);  
}  
// Event handler method to update state on input change  
handleChange(event) {  
  // Update state with the new input value  
  this.setState({  
    message: event.target.value,  
  });  
}  
render() {  
  return (  
    <div>  
      <label>  
        Type a message:  
      <input
```

```
    type="text"
    value={this.state.message}
    onChange={this.handleChange}
  />
</label>
<p>Current Message: {this.state.message}</p>
</div>
);
}
}
export default StringStateClassComponent;
```

These are the state class examples using form, Boolean and string.