**18.REACT**

**Index.html**

<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="utf-8" />

    <link rel="icon" href="%PUBLIC\_URL%/favicon.ico" />

    <meta name="viewport" content="width=device-width, initial-scale=1" />

    <meta name="theme-color" content="#000000" />

    <meta

      name="description"

      content="React Unit Testing Lab with CohortDetails Component"

    />

    <title>React Testing Lab</title>

  </head>

  <body>

    <noscript>You need to enable JavaScript to run this app.</noscript>

    <div id="root"></div>

  </body>

</html>

**Cohort.js**

export const CohortData = [

  {

    id: 1,

    code: "CT2025",

    name: "React Training",

    status: "Ongoing"

  }

];

**cohortDetails.js**

import React from 'react';

const CohortDetails = ({ cohort }) => {

  return (

    <div>

      <h3>{cohort.code}</h3>

      <p>{cohort.name}</p>

      <p>{cohort.status}</p>

    </div>

  );

};

export default CohortDetails;

console.log("Cohort:", cohort);

**cohortDetails.tests.js**

import React from 'react';

import { mount } from 'enzyme';

import CohortDetails from './CohortDetails';

import { CohortData } from './Cohort';

describe("Cohort Details Component", () => {

  test("should create the component", () => {

    const wrapper = mount(<CohortDetails cohort={CohortData[0]} />);

    expect(wrapper.exists()).toBe(true);

  });

  test("should initialize the props", () => {

    const wrapper = mount(<CohortDetails cohort={CohortData[0]} />);

    expect(wrapper.props().cohort).toEqual(CohortData[0]);

  });

  test("should display cohort code in h3", () => {

    const wrapper = mount(<CohortDetails cohort={CohortData[0]} />);

    expect(wrapper.find('h3').text()).toBe(CohortData[0].code);

  });

  test("should always render same html", () => {

    const wrapper = mount(<CohortDetails cohort={CohortData[0]} />);

    expect(wrapper).toMatchSnapshot();

  });

});

**App.js**

import React from 'react';

import CohortDetails from './components/CohortDetails';

import { CohortData } from './components/Cohort';

function App() {

  return (

    <div className="App">

      <CohortDetails cohort={CohortData[0]} />

    </div>

  );

}

export default App;

console.log(CohortData);

console.log("Rendering App...");

**index.js**

import React from 'react';

import ReactDOM from 'react-dom';

import App from './App';

ReactDOM.render(

  <React.StrictMode>

    <App />

  </React.StrictMode>,

  document.getElementById('root')

);

**setupTests.js**

import { configure } from 'enzyme';

import Adapter from '@wojtekmaj/enzyme-adapter-react-17';

configure({ adapter: new Adapter() });

**Output:**

