Divyansh Mishra

23BCE5071

**Web Programming**

**Assignment – 15**

**CODE:**

App.js

import React from 'react';

import Header from './Header';

import Content from './Content';

import Footer from './Footer';

import StyledButton from './StyledButton';

import './App.css';

function App() {

  return (

    <div className="app">

      <Header title="My React Application" />

      <Content />

      <StyledButton />

      <Footer />

    </div>

  );

}

export default App;

App.css

.app {

    font-family: Arial, sans-serif;

    max-width: 800px;

    margin: 0 auto;

    padding: 20px;

  }

  .header {

    background-color: #2c3e50;

    color: white;

    padding: 20px;

    text-align: center;

    border-radius: 4px 4px 0 0;

  }

  .content {

    background-color: #ecf0f1;

    padding: 20px;

    border-left: 1px solid #bdc3c7;

    border-right: 1px solid #bdc3c7;

  }

  .content button {

    background-color: #3498db;

    color: white;

    padding: 10px 20px;

    border: none;

    border-radius: 4px;

    cursor: pointer;

  }

  .joke {

    margin-top: 20px;

    padding: 15px;

    background-color: #f9f9f9;

    border-left: 4px solid #3498db;

  }

  .footer {

    background-color: #2c3e50;

    color: white;

    padding: 15px;

    text-align: center;

    border-radius: 0 0 4px 4px;

  }

Content.js

import React, { useState } from 'react';

function Content() {

  const jokes = [

    "Why don't scientists trust atoms? Because they make up everything!",

    "Why did the developer go broke? Because he used up all his cache!",

    "Why was the JavaScript developer sad? Because he didn't Node how to Express himself!",

    "Why do programmers prefer dark mode? Because light attracts bugs!",

    "How many programmers does it take to change a light bulb? None, that's a hardware problem!"

  ];

  const [joke, setJoke] = useState('');

  const getRandomJoke = () => {

    const randomIndex = Math.floor(Math.random() \* jokes.length);

    setJoke(jokes[randomIndex]);

  };

  return (

    <div className="content">

      <h2>Random Joke Generator</h2>

      <button onClick={getRandomJoke}>Get Random Joke</button>

      {joke && <p className="joke">{joke}</p>}

    </div>

  );

}

export default Content;

footer.js

import React from 'react';

function Footer() {

  return (

    <footer className="footer">

      <p>© 2025 BCSE203E: Web Programming Lab - Winter24-25</p>

    </footer>

  );

}

export default Footer;

header.js

import React from 'react';

function Header({ title }) {

  return (

    <header className="header">

      <h1>{title}</h1>

    </header>

  );

}

export default Header;

index.js

import React from 'react';

import ReactDOM from 'react-dom';

import './index.css';

import App from './App';

ReactDOM.render(

  <React.StrictMode>

    <App />

  </React.StrictMode>,

  document.getElementById('root')

);

Index.html

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="utf-8" />

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

  <title>React Application - 23BCE5071</title>

</head>

<body>

  <div id="root"></div>

</body>

</html>