

FEWD Lab

1. Create your portfolio page using HTML tags

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My Portfolio</title>
</head>
<body>

  <header>
    <h1>My Portfolio</h1>
  </header>

  <section class="container">
    <div class="project">
      <h2>Project 1: Title</h2>
      <p>Description of Project 1...</p>
      

    </div>
    <div class="project">
      <h2>Project 2: Title</h2>
      <p>Description of Project 2...</p>
      

    </div>
    <!-- Add more projects as needed -->

  </section>

</body>
</html>
```

2. Update the portfolio page by adding styles to it. Add a contact Us form as well.

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My Portfolio</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
    }
  </style>
</head>
```

```
    background-color: #f4f4f4;
}

header {
    background-color: #333;
    color: #fff;
    padding: 20px;
    text-align: center;
}

section {
    padding: 20px;
    margin: 20px;
    background-color: #fff;
    border-radius: 5px;
    box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}

h1 {
    margin-top: 0;
}

.container {
    max-width: 800px;
    margin: 0 auto;
}

.project {
    margin-bottom: 20px;
}

.project img {
    max-width: 100%;
    height: auto;
}

.contact-form {
    margin-top: 30px;
}

.form-group {
    margin-bottom: 20px;
}

.form-group label {
    display: block;
    margin-bottom: 5px;
}

.form-group input[type="text"],
.form-group textarea {
    width: 100%;
    padding: 8px;
    border: 1px solid #ccc;
}
```

```

        border-radius: 4px;
        box-sizing: border-box;
    }

    .form-group textarea {
        height: 100px;
    }

    .form-group input[type="submit"] {
        background-color: #333;
        color: #fff;
        border: none;
        padding: 10px 20px;
        border-radius: 4px;
        cursor: pointer;
    }

    .form-group input[type="submit"]:hover {
        background-color: #555;
    }
</style>
</head>

<body>

    <header>
        <h1>My Portfolio</h1>
    </header>

    <section class="container">
        <div class="project">
            <h2>Project 1: Title</h2>
            <p>Description of Project 1...</p>
            
        </div>
        <div class="project">
            <h2>Project 2: Title</h2>
            <p>Description of Project 2...</p>
            
        </div>
        <!-- Add more projects as needed -->

        <div class="contact-form">
            <h2>Contact Us</h2>
            <form action="#" method="post">
                <div class="form-group">
                    <label for="name">Name:</label>
                    <input type="text" id="name" name="name" required>
                </div>
                <div class="form-group">
                    <label for="email">Email:</label>
                    <input type="text" id="email" name="email" required>
                </div>
                <div class="form-group">

```

```

        <label for="message">Message:</label>
        <textarea id="message" name="message" required></textarea>
    </div>
    <div class="form-group">
        <input type="submit" value="Send Message">
    </div>
</form>
</div>
</section>

</body>

</html>

```

3. Update the same page using external style sheets or move the added styles to a CSS file and add it to the HTML page

A. Just separate CSS in experiment 2 into an external file and we have experiment 3

4. Update the portfolio page to use Bootstrap.

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>My Portfolio</title>
    <link
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
rel="stylesheet">
</head>
<body>

    <header class="bg-dark text-white py-4">
        <div class="container">
            <h1 class="mb-0">My Portfolio</h1>
        </div>
    </header>

    <section class="container mt-4">
        <div class="project">
            <h2>Project 1: Title</h2>
            <p>Description of Project 1...</p>
            
        </div>
        <div class="project">
            <h2>Project 2: Title</h2>
            <p>Description of Project 2...</p>

```

```

        
    </div>
    <!-- Add more projects as needed -->

    <div class="contact-form mt-4">
        <h2>Contact Us</h2>
        <form>
            <div class="form-group">
                <label for="name">Name:</label>
                <input type="text" id="name" name="name" class="form-control"
required>
            </div>
            <div class="form-group">
                <label for="email">Email:</label>
                <input type="text" id="email" name="email" class="form-control"
required>
            </div>
            <div class="form-group">
                <label for="message">Message:</label>
                <textarea id="message" name="message" class="form-control"
rows="4" required></textarea>
            </div>
            <div class="form-group">
                <button type="submit" class="btn btn-dark">Send Message</button>
            </div>
        </form>
    </div>
</section>

<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.5.4/dist/umd/popper.min.js"></scri
pt>
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script
>
</body>
</html>

```

5. Create Home, About Us, Products, Partners, Contact Us pages for a static e-commerce website using Bootstrap. Add a gallery page using Bootstrap grid model. Add Navbar, header and footer to all pages. Add a Login link (Modal).

```

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>E-commerce Website</title>

```

```
<link
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
rel="stylesheet">
</head>

<body>

  <!-- Navbar -->
  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
    <div class="container">
      <a class="navbar-brand" href="#">E-commerce</a>
      <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarNav"
      aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle
navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarNav">
        <ul class="navbar-nav ml-auto">
          <li class="nav-item active">
            <a class="nav-link" href="index.html">Home</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="about.html">About Us</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="products.html">Products</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="partners.html">Partners</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="contact.html">Contact Us</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#" data-toggle="modal" data-
target="#loginModal">Login</a>
          </li>
        </ul>
      </div>
    </div>
  </nav>

  <!-- Header -->
  <header class="jumbotron jumbotron-fluid text-center bg-secondary text-white">
    <div class="container">
      <h1 class="display-4">Welcome to our E-commerce Website</h1>
      <p class="lead">Discover amazing products and services.</p>
    </div>
  </header>

  <!-- Login Modal -->
  <div class="modal fade" id="loginModal" tabindex="-1" role="dialog" aria-
labelledby="loginModalLabel"
  aria-hidden="true">
    <div class="modal-dialog" role="document">
      <div class="modal-content">
```

```

        <div class="modal-header">
            <h5 class="modal-title" id="loginModalLabel">Login</h5>
            <button type="button" class="close" data-dismiss="modal" aria-
label="Close">
                <span aria-hidden="true">&times;</span>
            </button>
        </div>
        <div class="modal-body">
            <!-- Your login form goes here -->
            <form>
                <div class="form-group">
                    <label for="username">Username</label>
                    <input type="text" class="form-control" id="username"
placeholder="Enter your username">
                </div>
                <div class="form-group">
                    <label for="password">Password</label>
                    <input type="password" class="form-control" id="password"
placeholder="Enter your password">
                </div>
                <button type="submit" class="btn btn-primary">Login</button>
            </form>
        </div>
    </div>
</div>

<!-- Main Content -->
<div class="container mt-5">
    <h2>Home Page</h2>
    <p>This is the home page content.</p>
</div>

<!-- Footer -->
<footer class="bg-dark text-white text-center py-4">
    <div class="container">
        <p>&copy; 2024 E-commerce. All rights reserved.</p>
    </div>
</footer>

<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.5.4/dist/umd/popper.min.js"></scri
pt>
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script
>
</body>

</html>

```

6. . Add a weather component to the home page of the above website, using ReactJS.

Weather component.js

```

import React, { useState, useEffect } from 'react';
import axios from 'axios';

const WeatherComponent = () => {
  const [weather, setWeather] = useState(null);

  useEffect(() => {
    const fetchWeather = async () => {
      try {
        const response = await
axios.get('https://api.openweathermap.org/data/2.5/weather?q=Delhi&appid=142933f6ce24
ebbe60293131d8a226eb&units=metric');
        setWeather(response.data);
      } catch (error) {
        console.error('Error fetching weather data:', error);
      }
    };

    fetchWeather();
  }, []);

  return (
    <div className="container mt-5">
      <h2>Weather</h2>
      {weather && (
        <div>
          <p>Temperature: {weather.main.temp}°C</p>
          <p>Description: {weather.weather[0].description}</p>
        </div>
      )}
    </div>
  );
};

export default WeatherComponent;

```

App.js

```

import React from 'react';
import 'bootstrap/dist/css/bootstrap.min.css'; // Import Bootstrap CSS
import WebsiteContent from './components/WebsiteContent';
import WeatherComponent from './components/WeatherComponent';

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

export default App;

```


7. Update the 'contact us' page to a ReactJS component. An email should be sent each time contact us form is submitted

ContactUs.js

```
import React, { useRef, useEffect } from 'react';
import emailjs from 'emailjs-com';

const ContactUs = () => {
  const form = useRef();

  useEffect(() => {
    emailjs.init('CzjD5B_NCWY5n1cJm'); // Initialize EmailJS with your public key
  }, []);

  const sendEmail = (e) => {
    e.preventDefault();

    emailjs
      .sendForm('service_i88harq', 'template_9kwp9i', form.current)
      .then(
        () => {
          alert('SUCCESS!');
        },
        (error) => {
          alert(`FAILED... ${error.text}`);
          console.error('EmailJS Error:', error);
        }
      );
  };

  return (
    <form ref={form} onSubmit={sendEmail}>
      <label>Name</label>
      <input type="text" name="user_name" />
      <label>Email</label>
      <input type="email" name="user_email" />
      <label>Message</label>
      <textarea name="message" />
      <input type="submit" value="Send" />
    </form>
  );
};

export default ContactUs;
```

8. Add a Login component using ReactJS. User should be able to login, using pre-defined logins. Session should be maintained using react hooks

AuthContext.js

```

import React, { createContext, useState, useEffect } from 'react';

// Create a context for authentication
export const AuthContext = createContext();

const AuthProvider = ({ children }) => {
  const [user, setUser] = useState(null);

  // Load user from localStorage if available
  useEffect(() => {
    const storedUser = localStorage.getItem('user');
    if (storedUser) {
      setUser(JSON.parse(storedUser));
    }
  }, []);

  const login = (username, password) => {
    // Define pre-defined users
    const predefinedUsers = [
      { username: 'user1', password: 'pass1' },
      { username: 'user2', password: 'pass2' },
    ];

    const user = predefinedUsers.find(
      (u) => u.username === username && u.password === password
    );

    if (user) {
      setUser(user);
      localStorage.setItem('user', JSON.stringify(user));
      return true;
    }
    return false;
  };

  const logout = () => {
    setUser(null);
    localStorage.removeItem('user');
  };

  return (
    <AuthContext.Provider value={{ user, login, logout }}>
      {children}
    </AuthContext.Provider>
  );
};

export default AuthProvider;

```

Login.js

```

import React, { useState, useContext } from 'react';
import { AuthContext } from '../AuthContext';

const LoginPage = () => {

```

```

const [username, setUsername] = useState('');
const [password, setPassword] = useState('');
const [error, setError] = useState('');
const { user, login, logout } = useContext(AuthContext);

const handleSubmit = (e) => {
  e.preventDefault();
  if (login(username, password)) {
    setError('');
  } else {
    setError('Invalid username or password');
  }
};

if (user) {
  return (
    <div className="container">
      <h2>Welcome, {user.username}!</h2>
      <button onClick={logout} className="btn btn-primary">Logout</button>
    </div>
  );
}

return (
  <div className="container">
    <h2>Login</h2>
    <form onSubmit={handleSubmit}>
      <div className="form-group">
        <label>Username:</label>
        <input
          type="text"
          className="form-control"
          value={username}
          onChange={(e) => setUsername(e.target.value)}
        />
      </div>
      <div className="form-group">
        <label>Password:</label>
        <input
          type="password"
          className="form-control"
          value={password}
          onChange={(e) => setPassword(e.target.value)}
        />
      </div>
      <button type="submit" className="btn btn-primary">Login</button>
    </form>
    {error && <p style={{ color: 'red' }}>{error}</p>}
  </div>
);
};

export default LoginPage;

```

```
import React from 'react';
import 'bootstrap/dist/css/bootstrap.min.css'; // Import Bootstrap CSS
import LoginPage from './components/Login';
import AuthProvider from './components/AuthContext';

function App() {
  return (
    <AuthProvider>
      <div className="App">
        <LoginPage />
      </div>
    </AuthProvider>
  );
}
export default App;
```

9. Each page in the site should be a React JS component and the elements in each page should be child components.

HomeChild.js

```
import React from 'react';

const HomeChild = () => <div>Home Child Content</div>;

export default HomeChild;
```

Home.js

```
import React from 'react';
import HomeChild from './HomeChild';

const Home = () => (
  <div>
    <h2>Home Page</h2>
    <HomeChild />
  </div>
);

export default Home;
```

AboutChild.js

```
import React from 'react';

const AboutChild = () => <div>About Child Content</div>;

export default AboutChild;
```

About.js

```
import React from 'react';
import AboutChild from './AboutChild';
```

```
const About = () => (
  <div>
    <h2>About Page</h2>
    <AboutChild />
  </div>
);

export default About;
```

App.js

```
import React from 'react';
import 'bootstrap/dist/css/bootstrap.min.css'; // Import Bootstrap CSS
import WebsiteContent from './components/WebsiteContent';
import Home from './components/Home';
import About from './components/About';

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

export default App;
```

10. React Routing should be used to take care of routing from browser location bar and also from Navbar

App.js

```
import React from 'react';
import 'bootstrap/dist/css/bootstrap.min.css'; // Import Bootstrap CSS
import { BrowserRouter as Router, Route, Routes } from 'react-router-dom';
import About1 from './components/About1';
import Home1 from './components/Home1';
import Contact1 from './components/Contact1';
import Navbar from './components/Navbar';

function App() {
  return (
    <Router>
      <div className="App">
        <Navbar />
        <Routes>
          <Route path="/home1" element={<Home1 />} />
          <Route path="/about1" element={<About1 />} />
          <Route path="/contact1" element={<Contact1 />} />
        </Routes>
      </div>
    </Router>
  );
}
```

```

        </Routes>
        <FooterComponent />
      </div>
    </Router>
  );
}

export default App;

```

Navbar.js

```

import React from 'react';
import { Link } from 'react-router-dom';

const Navbar = () => (
  <nav style={{ backgroundColor: '#333', color: '#fff', padding: '10px 0' }}>
    <div style={{ display: 'flex', justifyContent: 'space-between', alignItems:
'center', maxWidth: '1200px', margin: '0 auto' }}>
      <Link to="/" style={{ fontSize: '1.5rem', textDecoration: 'none', color:
'fff' }}>
        My Website
      </Link>
      <div style={{ display: 'flex', gap: '20px' }}>
        <Link to="/home1" style={{ textDecoration: 'none', color: 'fff',
fontSize: '1.2rem', padding: '10px' }}>
          Home1
        </Link>
        <Link to="/about1" style={{ textDecoration: 'none', color: 'fff',
fontSize: '1.2rem', padding: '10px' }}>
          About1
        </Link>
        <Link to="/contact1" style={{ textDecoration: 'none', color: 'fff',
fontSize: '1.2rem', padding: '10px' }}>
          Contact1
        </Link>
      </div>
    </div>
  </nav>
);

export default Navbar;

```

Home1.js

```

import React from 'react';

const Home1 = () => (
  <div>
    <h1>Home1 Page</h1>
    <p>Welcome to the Home1 page!</p>
  </div>
);

export default Home1;

```

Contact1.js

```
import React from 'react';

const About1 = () => (
  <div>
    <h1>About1 Page</h1>
    <p>Welcome to the About1 page!</p>
  </div>
);

export default About1;
```

About1.js

```
import React from 'react';

const Contact1 = () => (
  <div>
    <h1>Contact1 Page</h1>
    <p>Welcome to the Contact1 page!</p>
  </div>
);

export default Contact1;
```