



Vidyavardhini's College Of Engineering & Technology, Vasai

ASSIGNMENT NO. 5

NAME: CHETAN BHUYAL

ROLL NO. : 16

DATE :

SUBJECT : FULL STACK JAVA PROGRAMING

QUESTION :

Creating a single page website using the concept in React like Hooks,router,Props and States.

CODE:

```
// App.js
```

```
import React, { useState } from "react";
```

```
import { BrowserRouter as Router, Routes, Route, Link } from  
"react-router-dom";
```

```
// --- Home Component ---
```

```
function Home() {
```

```
  const [name, setName] = useState("");
```

```
  const [greeting, setGreeting] = useState("");
```

```
  const handleClick = () => {
```

```
    setGreeting(`Hello, ${name}! Welcome to our website.`);
```

```
  };
```

```
  return (
```

```
    <div>
```

```
      <h2>Home Page</h2>
```

```
      <input
```

```
        type="text"
```

```
        placeholder="Enter your name"
```

```

        value={name}
        onChange={(e) => setName(e.target.value)}
      />
      <button onClick={handleClick}>Greet Me</button>
      {greeting} && <p>{greeting}</p>
    </div>
  );
}

```

```

// --- About Component ---
function About({ info }) {
  return (
    <div>
      <h2>About Page</h2>
      <p>{info}</p>
    </div>
  );
}

```

```

// --- Contact Component ---
function Contact() {
  const [email, setEmail] = useState("");
  const [message, setMessage] = useState("");

  const handleSubmit = (e) => {
    e.preventDefault();
    setMessage(`Thank you! We will contact you at ${email}.`);
  };

  return (
    <div>
      <h2>Contact Page</h2>

```

```

    <form onSubmit={handleSubmit}>
      <input
        type="email"
        placeholder="Enter your email"
        value={email}
        onChange={(e) => setEmail(e.target.value)}
        required
      />
      <button type="submit">Submit</button>
    </form>
    {message && <p>{message}</p>}
  </div>
);
}

// --- Main App ---
function App() {
  return (
    <Router>
      <div style={{ padding: "20px" }}>
        <h1>My Single Page React Website</h1>
        <nav>
          <Link to="/" style={{ margin: "10px" }}>Home</Link>
          <Link to="/about" style={{ margin: "10px"
}}>About</Link>
          <Link to="/contact" style={{ margin: "10px"
}}>Contact</Link>
        </nav>
        <hr />
        <Routes>
          <Route path="/" element={<Home />} />

```

```
        <Route path="/about" element={<About info="This is
a demo single-page React website." />} />
        <Route path="/contact" element={<Contact />} />
    </Routes>
  </div>
</Router>
);
}
```

export default App;

OUTPUT :

Home Page

[Enter your name: _____] [Greet Me]

Contact Page

[Enter your email: _____] [Submit]

After submitting "aarav@example.com":

Thank you! We will contact you at aarav@example.com.