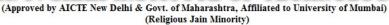


# A. P. SHAH INSTITUTE OF TECHNOLOGY





### **Department of CSE (Artificial Intelligence & Machine Learning)**

Academic Year: 2024-25

Semester: V

Class / Branch: T.E./ CSE(AI&ML)

**Subject: WCN Lab** 

Name of Instructor: Prof. Poonam Tiware

Name of Student: Raj Nikam

Student ID: 22106027

Roll No: 61

# **Experiment No. 6**

Aim: Create webpage using react and express js

#### **Program:**

For creating the express backend:

- 1. mkdir backend
- 2. npm init -y
- 3. npm install express cors nodemon concurrently
- 4. Modify the scripts section of *package.json* as mentioned below
- 5. Run the development server using: **npm run dev**

#### Server.js:

```
const express = <u>require("express")</u>;
                                       ■ File is a CommonJS module; it may be converted to an ES module
 1 const path = require("path");
 2 const app = express();
  const cors = require("cors");
 4 const PORT = process.env.PORT || 5000;
 5 app.use(cors());
8 app.use(express.static(path.join(__dirname, "client/build")));
10 // API route example
■ 'req' is declared but its value is never read.
16 app.get("/api/homeMessage", (req, res) => { ■ 'req' is declared bu' res.json({ message: "The backend knows you're on the home page!" });
                                             ■ 'req' is declared but its value is never read.
20 // For the about page
21 app.get("/api/aboutMessage ", (req, res) => {
                                                 'req' is declared but its value is never read.
    res.json({ message: "The backend knows you're on the about page!" });
  29 app.listen(PORT, () => {
    console.log(`Server is running on port ${PORT}`);
```



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# package.json

```
"name": "backend",
     "version": "1.0.0"
     "main": "index.js",
     "scripts": {
       "start": "node server.js",
       "server": "nodemon server.js",
       "client": "npm start --prefix client",
"dev": "concurrently \"npm run server\" \"npm run client\""
     "keywords": [],
     "author": "",
     "license": "ISC"
     "description": ""
     "dependencies": {
       "concurrently": "^9.0.1",
       "cors": "^2.8.5",
       "express": "^4.21.0",
       "nodemon": "^3.1.7"
19
20
```

#### **Create the frontend:**

- 1. npx create-react-app frontend
- 2. npm install react-router-dom
- 3. Create 2 files in **src: Home.js** and **About.js**
- 4. Create the build using: **npm run build**



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#### App.js

```
import React, { useState, useEffect } from "react";
   import {  BrowserRouter as Router, Route, Routes } from "react-router-dom";
  import Home from "./Home";
2 import About from "./About";
4 function App() {
    const [message, setMessage] = useState("");
    useEffect(() => {
       fetch("http://localhost:5000/api/message")
         .then((res) => {
           if (!res.ok) {
             throw new Error("Network response was not ok");
           return res. json(); // Make sure to return the parsed JSON
         .then((data) => setMessage(data.message)) // Set the message from the parsed data
         .catch((error) => {
           console.error("There was an issue with the fetch:", error);
         });
    }, []);
     return (
      <Router>
         <div>
           <h1>{message}</h1>
           <Routes>
             <Route path="/" element={<Home />} />
             <Route path="/about" element={<About />} />
           </Routes>
         </div>
      </Router>
34 export default App;
```



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#### About.js

```
import React from "react";
 1 import { Link } from "react-router-dom";
 2 import { useState, useEffect } from "react";
 4 const About = () => {
     const [message, setMessage] = useState("");
     useEffect(() => {
       fetch("http://localhost:5000/api/aboutMessage")
         .then((res) => {
           if (!res.ok) {
             throw new Error("Network response was not ok");
11
12
           return res.json(); // Make sure to return the parsed JSON
         })
         .then((data) => {
           setMessage(data.message);
           console.log(message);
         }) // Set the message from the parsed data
         .catch((error) => {
           console.error("There was an issue with the fetch:", error);
         });
     }, []);
     return (
       <div>
         <h1>About Page</h1>
25
         <Link to="/">Go to Home</Link>
         <h2>{message}</h2>
       </div>
     );
29 }:
31 export default About;
```



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### Home.js

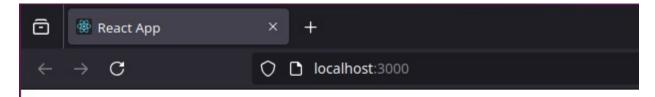
```
import React from "react";
1 import { Link } from "react-router-dom";
2 import { useState, useEffect } from "react";
4 const Home = () => {
    const [message, setMessage] = useState("");
     useEffect(() => {
       fetch("http://localhost:5000/api/homeMessage")
         .then((res) => {
           if (!res.ok) {
             throw new Error("Network response was not ok");
11
           return res. ison(); // Make sure to return the parsed JSON
12
         .then((data) => setMessage(data.message)) // Set the message 1
         .catch((error) => {
           console.error("There was an issue with the fetch:", error);
     }, []);
     return (
       <div>
         <h1>Home Page</h1>
         <Link to="/about">Go to About</Link>
         <h2>{message}</h2>
       </div>
     );
26 };
28 export default Home;
```



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#### **Output:**

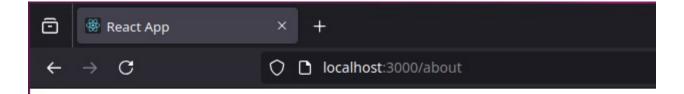


# Hello from the backend!

# Home Page

Go to About

The backend knows you're on the home page!



# Hello from the backend!

# About Page

Go to Home

The backend knows you're on the about page!