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| **Branch:** MCA | **Section/Group:** 4 ‘B’ |
| **Semester:** 3rd | **Date of Performance:** 18/09/2024 |
| **Subject Name:** Backend Technology | **Subject Code:** 23CAH-702 |

**Experiment – 3**

1. **Aim/Overview of the practical:**

Create a Sign Up Page and store the inputted data by user in file.

1. **Apparatus:**

The liberary and tools that we use are express , fs , cors , jsonparse , axios and vscode .

1. **Coding:**

**Frontend -** Register.jsx

import React, { useState } from 'react';

const Register = () => {

const [formData, setFormData] = useState({

firstName: '',

lastName: '',

email: '',

password: ''

});

const [response, setResponse] = useState('');

const handleChange = (e) => {

setFormData({

...formData,

[e.target.name]: e.target.value

});

};

const handleSubmit = async (e) => {

e.preventDefault();

// Posting data to server (assuming a Node.js backend)

try {

const res = await fetch('http://localhost:5000/register', {

method: 'POST',

headers: {

'Content-Type': 'application/json',

},

body: JSON.stringify(formData),

});

const result = await res.json();

setResponse(result.message);

} catch (error) {

setResponse('Error submitting data');

}

};

return (

<div>

<h2>Register</h2>

<form onSubmit={handleSubmit}>

<div>

<label>First Name:</label>

<input

type="text"

name="firstName"

value={formData.firstName}

onChange={handleChange}

required

/>

</div>

<div>

<label>Last Name:</label>

<input

type="text"

name="lastName"

value={formData.lastName}

onChange={handleChange}

required

/>

</div>

<div>

<label>Email:</label>

<input

type="email"

name="email"

value={formData.email}

onChange={handleChange}

required

/>

</div>

<div>

<label>Password:</label>

<input

type="password"

name="password"

value={formData.password}

onChange={handleChange}

required

/>

</div>

<button type="submit">Submit</button>

</form>

{response && <p>{response}</p>}

</div>

);

};

Backend (Index.js)

const express = require('express');

const cors = require('cors');

const fs = require('fs');

const app = express();

app.use(cors());

app.use(express.json());

app.post('/register', (req, res) => {

const userData = req.body;

console.log(userData);

// Write data to a JSON file

fs.readFile('users.json', (err, data) => {

if (err) {

return res.status(500).json({ message: 'Error reading file' });

}

const users = JSON.parse(data);

console.log(users);

users.push(userData);

fs.writeFile('users.json', JSON.stringify(users, null, 2), (err) => {

if (err) {

return res.status(500).json({ message: 'Error writing file' });

}

res.status(200).json({ message: 'Registration successful!' });

});

});

});

app.listen(5000, () => {

console.log('Server is running on port 5000');

});

**5. Learning Outcomes (What I have learnt):**

* + Learned to use file handling and learned also about read , write file.
  + Learned to use cors for data transfer and its security features.
  + Learned about express framework and all the functionality that it provide.
  + Learned to make api and post ,get request .