		Marwadi University
	NAAC A+	Faculty of Technology
		Department of Information and Communication Technology
Subject: Advanced Web Technology (01CT1625)		**Aim:** Improve any React (+NodeJS) application by adding Error Handling.
Experiment :- 3	**Date:- 30-03-2025**	**Enrollment No:-** 92200133003

CODE :
Client :

App
```
import React from 'react';
import { BrowserRouter as Router, Routes, Route } from 'react-router-dom';
import Register from './Register';
import Login from './Login'; // Make sure this component exists

function App() {
 return (
  <Router>
   <Routes>
    <Route path="/register" element={<Register />} />
    <Route path="/login" element={<Login />} />
    <Route path="*" element={<Register />} /> {/* Optional: default route */}
   </Routes>
  </Router>
 );
}

export default App;
```

Login
```
import React, { useState } from 'react';
import axios from 'axios';
import { Link } from 'react-router-dom';
import './Login.css';

function Login() {
 const [form, setForm] = useState({ email: '', password: '' });
 const [message, setMessage] = useState('');

 const handleChange = e => setForm({ ...form, [e.target.name]: e.target.value });

 const handleSubmit = async e => {
  e.preventDefault();
  try {
   const res = await axios.post('http://localhost:5000/api/auth/login', form);
   setMessage(res.data.message);
   alert(res.data.message); // ✅ Show alert for valid login
  } catch (err) {
   const errorMsg = err.response?.data?.message || 'Something went wrong';
   setMessage(errorMsg);
   alert(errorMsg); // ✖ Show alert for invalid login
  }
 };

 return (
  <div className="login-container">
   <h3>Login</h3>
   <form onSubmit={handleSubmit}>
    <input name="email" placeholder="Email" onChange={handleChange} />
    <input name="password" placeholder="Password" type="password" onChange={handleChange} />
```

	Marwadi University
	Faculty of Technology
	Department of Information and Communication Technology
Subject: Advanced Web Technology (01CT1625)	**Aim:** Improve any React (+NodeJS) application by adding Error Handling.
Experiment :- 3	**Date:- 30-03-2025**	**Enrollment No:-** 92200133003

```
      <button type="submit">Login</button>
    </form>
    <p>{message}</p>
    <p className="switch-link">
     Don't have an account? <Link to="/register">Register</Link>
    </p>
   </div>
 );
}

export default Login;
```

Register

```
import React, { useState } from 'react';
import { Link } from 'react-router-dom';
import axios from 'axios';
import './Register.css';

function Register() {
 const [form, setForm] = useState({ name: '', email: '', password: '' });
 const [message, setMessage] = useState('');

 const handleChange = e => setForm({ ...form, [e.target.name]: e.target.value });

 const handleSubmit = async e => {
  e.preventDefault();
  try {
   const res = await axios.post('http://localhost:5000/api/auth/register', form);
   setMessage(res.data.message);
   alert(res.data.message); // ✅ Show alert for valid login
  } catch (err) {
   setMessage(err.response?.data?.message || 'Something went wrong');
   alert(errorMsg); // ✖ Show alert for invalid login

  }
 };
 return (
  <div className="register-container">
   <h3>Register</h3>
   <form onSubmit={handleSubmit}>
    <input name="name" placeholder="Name" onChange={handleChange} />
    <input name="email" placeholder="Email" onChange={handleChange} />
    <input name="password" placeholder="Password" type="password" onChange={handleChange} />
    <button type="submit">Register</button>
   </form>
   <p>{message}</p>
   <p className="switch-link">
    Already have an account? <Link to="/login">Login</Link>
   </p>
  </div>
 );
}

export default Register;
```

		Marwadi University
		Faculty of Technology
		Department of Information and Communication Technology
Subject: Advanced Web Technology (01CT1625)		**Aim:** Improve any React (+NodeJS) application by adding Error Handling.
Experiment :- 3	**Date:- 30-03-2025**	**Enrollment No:- 92200133003**

SERVER :

Index.js
```
const express = require('express');
const cors = require('cors');
const authRoutes = require('./routes/auth');

const app = express();
app.use(cors());
app.use(express.json());

app.use('/api/auth', authRoutes);

app.listen(5000, () => console.log('Server running on port 5000'));
```

Auth.js
```
const express = require('express');
const router = express.Router();
const bcrypt = require('bcrypt');
const db = require('../db');

// Register
router.post('/register', async (req, res) => {
 const { name, email, password } = req.body;

 if (!name || !email || !password) return res.status(400).json({ message: 'All fields are required' });

 const hashedPassword = await bcrypt.hash(password, 10);

 db.query('SELECT * FROM user WHERE email = ?', [email], (err, results) => {
  if (results.length > 0) {
   return res.status(409).json({ message: 'Email already registered' });
  }

  db.query('INSERT INTO user (name, email, password) VALUES (?, ?, ?)', [name, email, hashedPassword], (err, result) => {
   if (err) return res.status(500).json({ message: 'Database error' });
   res.status(201).json({ message: 'User registered successfully' });
  });
 });
});

// Login
router.post('/login', (req, res) => {
 const { email, password } = req.body;

 if (!email || !password) return res.status(400).json({ message: 'Email and password are required' });

 db.query('SELECT * FROM user WHERE email = ?', [email], async (err, results) => {
  if (err) return res.status(500).json({ message: 'Database error' });
  if (results.length === 0) return res.status(401).json({ message: 'User not found' });

  const user = results[0];
  const match = await bcrypt.compare(password, user.password);

  if (!match) return res.status(401).json({ message: 'Invalid credentials' });

  res.status(200).json({ message: 'Login successful', user: { id: user.id, name: user.name, email: user.email } });
 });
```

	Marwadi University
	Faculty of Technology
	Department of Information and Communication Technology
Subject: Advanced Web Technology (01CT1625)	**Aim:** Improve any React (+NodeJS) application by adding Error Handling.
Experiment :- 3	**Date:- 30-03-2025** **Enrollment No:-** 92200133003

```
});

module.exports = router;
```

Db.js
```
const mysql = require('mysql2');
const connection = mysql.createConnection({
 host: 'localhost',
 user: 'root',
 password: '',
 database: 'mu_2425_test',
});

connection.connect((err) => {
 if (err) throw err;
 console.log('Connected to MySQL');
});

module.exports = connection;
```

OUTPUT