1

App.js

```
import React from 'react';
import Resume from './Resume';
function App() {
  return (
    <div>
      <Resume />
    </div>
  );
}
export default App;



// export NODE_OPTIONS=--openssl-legacy-provider
// npm start


// for Windows


// set NODE_OPTIONS=--openssl-legacy-provider
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```

Resume.css

```css
.resume-container {
    font-family: Arial, sans-serif;
    margin: 20px auto;
    padding: 20px;
    max-width: 600px;
    border: 1px solid #ddd;
    border-radius: 8px;
    background-color: #f9f9f9;
}
.header {
    text-align: center;
    margin-bottom: 20px;
}
.header h1 {
    margin: 0;
    font-size: 24px;
}
.header p {
    margin: 5px 0;
    color: #555;
}
.section {
    margin-bottom: 20px;
}
```

```css
.section h2 {

  font-size: 20px;

  border-bottom: 2px solid #ddd;

  padding-bottom: 5px;

  margin-bottom: 10px;

}
.section ul {

  padding-left: 20px;

}
.section ul li {

  margin-bottom: 5px;

}
```

Resume.js

```jsx
import React from 'react'

import './Resume.css';

const Resume =()=>{

  return(

    <div className="resume-container">

      <header className='header'>

        <h1>John Doe</h1>

        <p>Software Engineer | myemail@gmail.com | +91-9999999999</p>

      </header>

      <section className="section">
```

```jsx
      <h2>Education</h2>

      <p>Bachelor of Computer Application - MIT</p>

      <p>Graduated: 2024</p>

    </section>

    <section className="section">

      <h2>Experience</h2>

      <p>Web Developer at Google</p>

    </section>

    <section className="section">

      <h2>Skills</h2>

      <ul>

        <li>HTML</li>

        <li>CSS</li>

        <li>JavaScript</li>

        <li>MERN Stack</li>

        <li>Java</li>

        <li>Python</li>

      </ul>

    </section>

  </div>

  );

};

export default Resume;
```

2

App.js

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

import RegistrationForm from "./components/RegistrationForm";

import RegisteredUser from "./components/RegisteredUser";


const App = () => {

  const [registeredUser, setRegisteredUser] = useState(null);


  return (

    <div>

      <h2>Registration Portal</h2>

      <RegistrationForm onRegister={setRegisteredUser} />

      <RegisteredUser user={registeredUser} />

    </div>

  );

};


export default App;
```

```
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RegistrationForm.js

------------------------------------------------------------------

import React, { useState } from "react";


const RegistrationForm = ({ onRegister }) => {
  const [name, setName] = useState("");
  const [email, setEmail] = useState("");
  const [subject, setSubject] = useState("");

  const handleSubmit = (e) => {
    e.preventDefault();
    onRegister({ name, email, subject });
    setName("");
    setEmail("");
    setSubject("");
```

```
  };

  return (
    <form onSubmit={handleSubmit}>
      <input type="text" placeholder="Name" value={name} onChange={(e) =>
setName(e.target.value)} required />

      <input type="email" placeholder="Email" value={email} onChange={(e) =>
setEmail(e.target.value)} required />

      <input type="text" placeholder="Subject" value={subject} onChange={(e) =>
setSubject(e.target.value)} required />

      <button type="submit">Register</button>
    </form>
  );
};


export default RegistrationForm;
```

RegisteredUser.js

```
import React from "react";


const RegisteredUser = ({ user }) => (
  user ? <p>Registered: {user.name} ({user.email}) ({user.subject})</p> : null
);


export default RegisteredUser;
```

4

App.js

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

import axios from "axios";


const API_URL = "http://localhost:5001/employees";


function App() {
  const [employees, setEmployees] = useState([]);

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

  const [position, setPosition] = useState("");


  useEffect(() => {

    axios.get(API_URL).then(res => setEmployees(res.data));

  }, []);


  const addEmployee = () => {

    axios.post(API_URL, { name, position }).then(res => {

      setEmployees([...employees, res.data]);

      setName("");

      setPosition("");

    });
```

```jsx
  };

  const deleteEmployee = (id) => {

   axios.delete(`${API_URL}/${id}`).then(() => {

    setEmployees(employees.filter(emp => emp.id !== id));

   });

  };


  return (

   <div>

    <h2>Employee Management</h2>

    <input placeholder="Name" value={name} onChange={(e) => setName(e.target.value)}
/>

    <input placeholder="Position" value={position} onChange={(e) =>
setPosition(e.target.value)} />

    <button onClick={addEmployee}>Add</button>

    <ul>

     {employees.map(emp => (

      <li key={emp.id}>{emp.name} - {emp.position} <button onClick={() =>
deleteEmployee(emp.id)}>X</button></li>

     ))}

    </ul>

   </div>

  );

}


export default App;
```

```
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// npm start



// steps


//1. mkdir employee-management

//  cd employee-management

//  mkdir backend frontend


// 2. cd backend

//   npm init -y
```

```
// 3. npm install express cors fs

// 4. touch server.js

// 5. touch employees.json

// 6. Run : node server.js

// 7. cd ..
//   cd frontend
//   npx create-react-app .

// 8. npm install axios

// 9. Run : npm start



server.js
------------------------------------------------------------------------------
const express = require("express");

const cors = require("cors");

const fs = require("fs");


const app = express();

const PORT = 5001;
```

```javascript
const DATA_FILE = "./employees.json";

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

const getEmployees = () => JSON.parse(fs.readFileSync(DATA_FILE));

app.get("/employees", (req, res) => res.json(getEmployees()));

app.post("/employees", (req, res) => {
  const employees = getEmployees();
  const newEmployee = { id: Date.now(), ...req.body };
  employees.push(newEmployee);
  fs.writeFileSync(DATA_FILE, JSON.stringify(employees));
  res.json(newEmployee);
});

app.delete("/employees/:id", (req, res) => {
  const employees = getEmployees().filter(emp => emp.id !== Number(req.params.id));
  fs.writeFileSync(DATA_FILE, JSON.stringify(employees));
  res.sendStatus(200);
});

app.listen(PORT, () => console.log(`Server running on port ${PORT}`));
```

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App.js

```javascript
import React, { useEffect, useState } from "react";
import axios from "axios";

const API_URL = "http://localhost:5001/inventory";

function App() {
  const [inventory, setInventory] = useState([]);
  const [itemName, setItemName] = useState("");
  const [quantity, setQuantity] = useState("");
  const [price, setPrice] = useState("");

  useEffect(() => {
    axios.get(API_URL).then(res => setInventory(res.data));
  }, []);

  const addItem = () => {
    axios.post(API_URL, { itemName, quantity, price }).then(res => {
      setInventory([...inventory, res.data]);
```

```jsx
    setItemName("");

    setQuantity("");

    setPrice("");

  });

};


  const deleteItem = (id) => {

    axios.delete(`${API_URL}/${id}`).then(() => {

      setInventory(inventory.filter(item => item.id !== id));

    });

  };


  return (

    <div>

      <h2>Inventory Management</h2>

      <input placeholder="Item Name" value={itemName} onChange={(e) =>
setItemName(e.target.value)} />

      <input placeholder="Quantity" value={quantity} onChange={(e) =>
setQuantity(e.target.value)} />

      <input placeholder="Price" value={price} onChange={(e) => setPrice(e.target.value)} />

      <button onClick={addItem}>Add Item</button>

      <ul>

      {inventory.map(item => (

        <li key={item.id}>{item.itemName} - {item.quantity} - Rs. {item.price} <button
onClick={() => deleteItem(item.id)}>X</button></li>

      ))}

      </ul>
```

```jsx
    </div>

  );

}


export default App;
```

```
// export NODE_OPTIONS=--openssl-legacy-provider

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// npm start



// steps


//1. mkdir employee-management
```

```
//  cd employee-management

//  mkdir backend frontend


// 2. cd backend

//   npm init -y


// 3. npm install express cors fs


// 4. touch server.js


// 5. touch employees.json


// 6. Run : node server.js


// 7. cd ..

//   cd frontend

//   npx create-react-app .


// 8. npm install axios


// 9. Run : npm start



server.js
-------------------------------------------------------------------------------
const express = require("express");
```

```javascript
const cors = require("cors");

const fs = require("fs");


const app = express();

const PORT = 5001;

const DATA_FILE = "./inventory.json";


app.use(express.json());

app.use(cors());


const getInventory = () => JSON.parse(fs.readFileSync(DATA_FILE));


app.get("/inventory", (req, res) => res.json(getInventory()));


app.post("/inventory", (req, res) => {
  const inventory = getInventory();
  const newItem = { id: Date.now(), ...req.body };
  inventory.push(newItem);
  fs.writeFileSync(DATA_FILE, JSON.stringify(inventory));
  res.json(newItem);
});


app.delete("/inventory/:id", (req, res) => {
  const inventory = getInventory().filter(item => item.id !== Number(req.params.id));
  fs.writeFileSync(DATA_FILE, JSON.stringify(inventory));
  res.sendStatus(200);
```

```
});


app.listen(PORT, () => console.log(`Server running on port ${PORT}`));
```