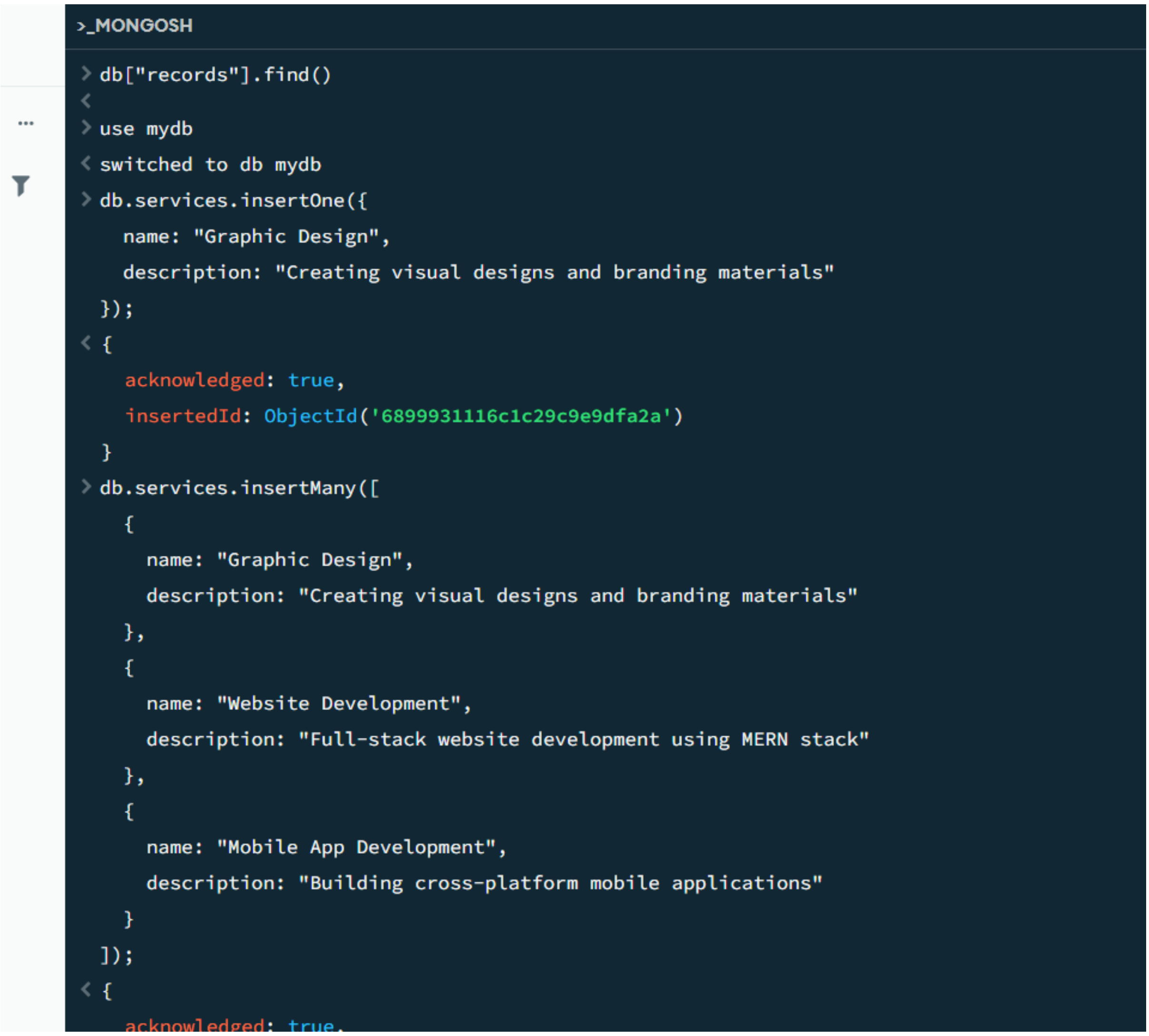
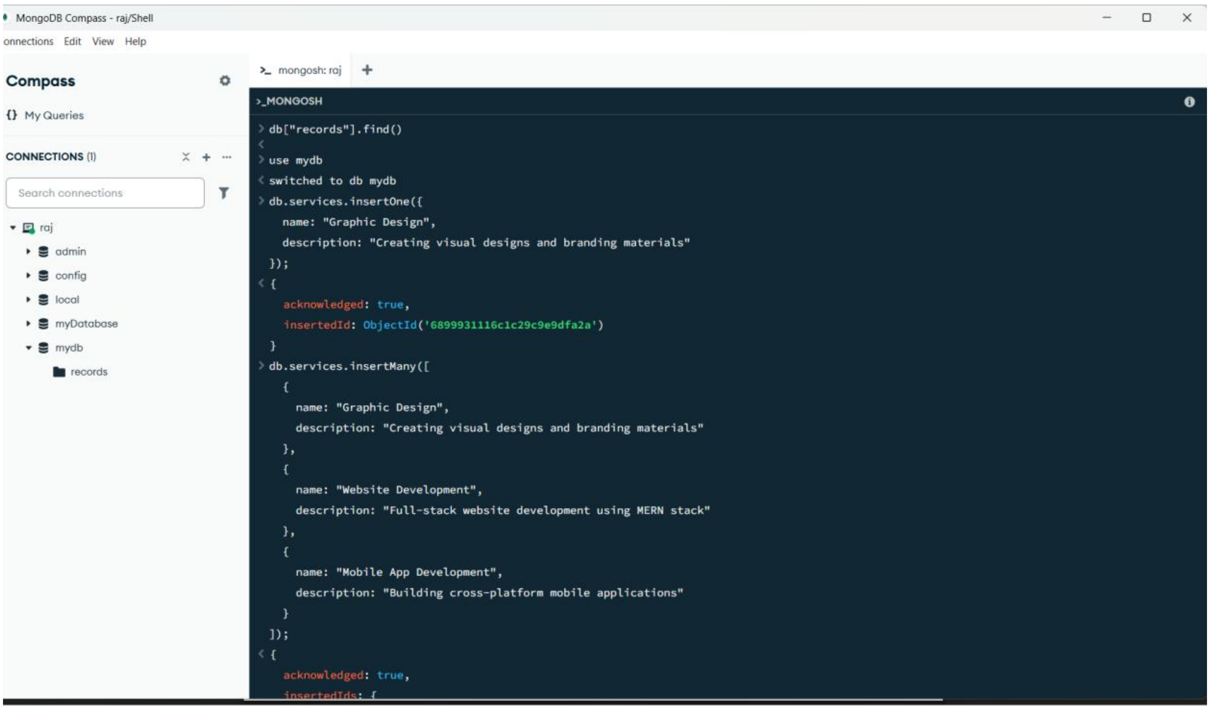
Full React.js + Express.js CRUD Application Setup:-



```
> db["records"].find()
<
> use mydb
< switched to db mydb
> db.services.insertOne({
    name: "Graphic Design",
    description: "Creating visual designs and branding materials"
  });
< {
    acknowledged: true,
    insertedId: ObjectId('6899931116c1c29c9e9dfa2a')
  }
> db.services.insertMany([
    {
      name: "Graphic Design",
      description: "Creating visual designs and branding materials"
    },
    {
      name: "Website Development",
      description: "Full-stack website development using MERN stack"
    },
    {
      name: "Mobile App Development",
      description: "Building cross-platform mobile applications"
    }
  ]);
< {
    acknowledged: true,
```



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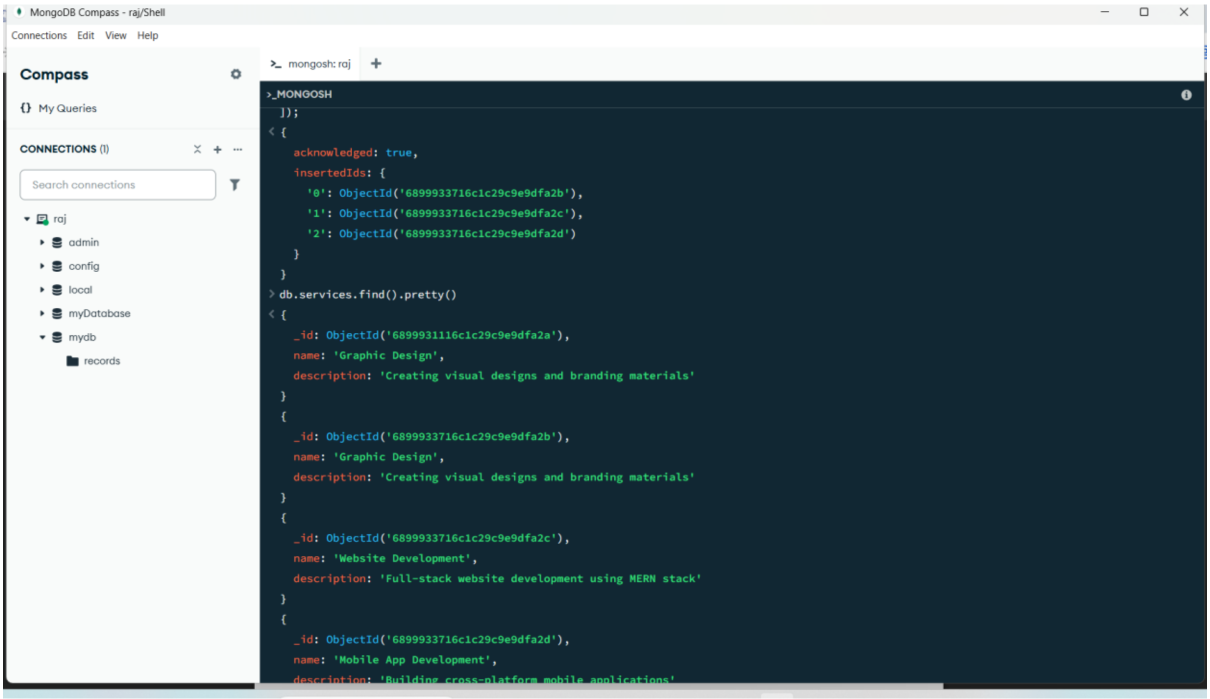
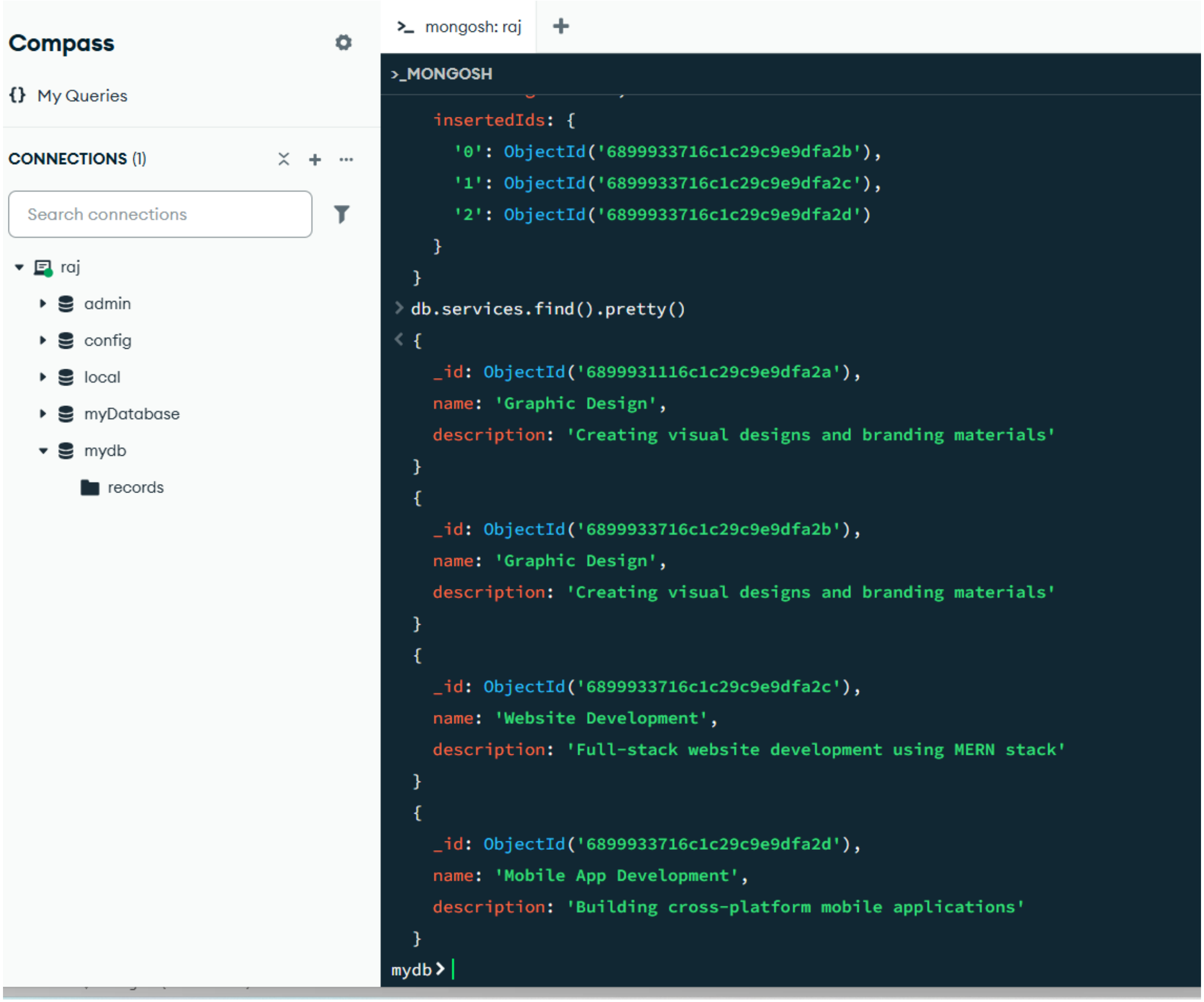
    },
    {
      name: "Mobile App Development",
      description: "Building cross-platform mobile applications"
    }
  ]);
< {
    acknowledged: true,
    insertedIds: {
```



```
  ]);
< {
    acknowledged: true,
    insertedIds: {
      '0': ObjectId('6899933716c1c29c9e9dfa2b'),
      '1': ObjectId('6899933716c1c29c9e9dfa2c'),
      '2': ObjectId('6899933716c1c29c9e9dfa2d')
    }
  }
> db.services.find().pretty()
< {
    _id: ObjectId('6899931116c1c29c9e9dfa2a'),
    name: 'Graphic Design',
    description: 'Creating visual designs and branding materials'
  }
  {
    _id: ObjectId('6899933716c1c29c9e9dfa2b'),
    name: 'Graphic Design',
    description: 'Creating visual designs and branding materials'
  }
  {
    _id: ObjectId('6899933716c1c29c9e9dfa2c'),
    name: 'Website Development',
    description: 'Full-stack website development using MERN stack'
  }
  {
    _id: ObjectId('6899933716c1c29c9e9dfa2d'),
    name: 'Mobile App Development',
    description: 'Building cross-platform mobile applications'
```



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    '0': ObjectId('6899933716c1c29c9e9dfa2b'),
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  name: 'Graphic Design',
  description: 'Creating visual designs and branding materials'
}
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  _id: ObjectId('6899933716c1c29c9e9dfa2c'),
  name: 'Website Development',
  description: 'Full-stack website development using MERN stack'
}
{
  _id: ObjectId('6899933716c1c29c9e9dfa2d'),
  name: 'Mobile App Development',
  description: 'Building cross-platform mobile applications'
}
mydb>
```
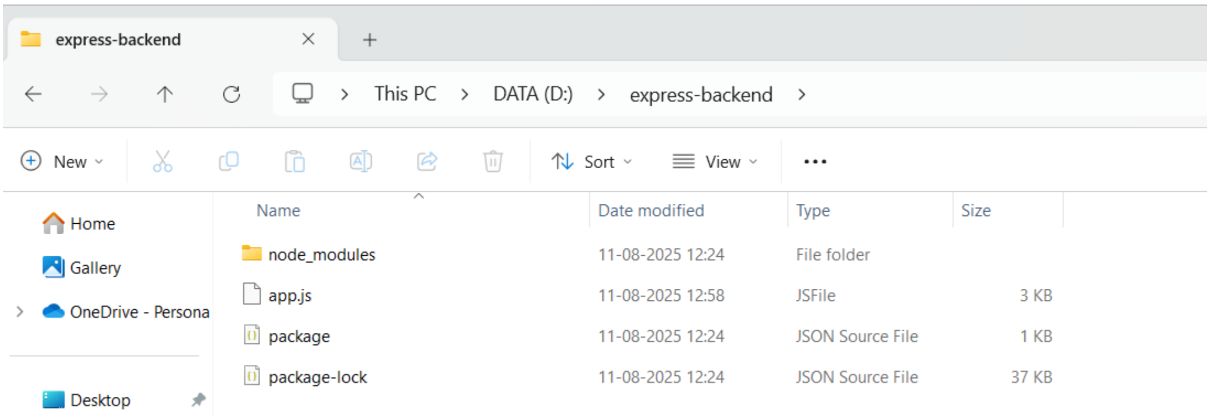

Express Js Backend Code:-

```
C:\Users\RAJ SINGH>D:


D:\>mkdir express-backend


D:\>cd express-backend


D:\express-backend>npm init –y
D:\express-backend>npm install express
D:\express-backend>npm install cors
```

Project Folder (express-backend):-



Name	Date modified	Type	Size
node_modules	11-08-2025 12:24	File folder	
app.js	11-08-2025 12:58	JSFile	3 KB
package	11-08-2025 12:24	JSON Source File	1 KB
package-lock	11-08-2025 12:24	JSON Source File	37 KB

app.js:-

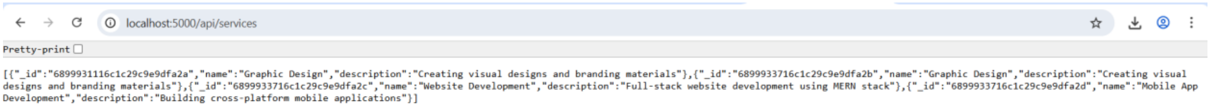
```
// server.js
const express = require('express');
const cors = require('cors');
const mongoose = require('mongoose');
const app = express();
const PORT = 5000;

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

// MongoDB connection
const mongoURI = 'mongodb://localhost:27017/mydb';
mongoose.connect(mongoURI, { useNewUrlParser: true, useUnifiedTopology: true })
  .then(() => console.log('MongoDB connected'))
  .catch(err => console.log('MongoDB connection error:', err));
```

```
// Schema & Model
const serviceSchema = new mongoose.Schema({
  name: String,
  description: String
});
const Service = mongoose.model('Service', serviceSchema);

/* ----------------- CRUD Routes ----------------- */

// CREATE
app.post('/api/services', async (req, res) => {
  try {
    const { name, description } = req.body;
    const newService = new Service({ name, description });
    await newService.save();
    res.status(201).json(newService);
  } catch (err) {
    res.status(500).json({ message: 'Failed to create service', error: err });
  }
});

// READ (All)
app.get('/api/services', async (req, res) => {
  try {
    const services = await Service.find();
    res.json(services);
  } catch (err) {
    res.status(500).json({ message: 'Failed to fetch services', error: err });
  }
});

// READ (Single)
app.get('/api/services/:id', async (req, res) => {
  try {
    const service = await Service.findById(req.params.id);
    if (!service) return res.status(404).json({ message: 'Service not found' });
    res.json(service);
  } catch (err) {
    res.status(500).json({ message: 'Failed to fetch service', error: err });
  }
});

// UPDATE
app.put('/api/services/:id', async (req, res) => {
  try {
    const { name, description } = req.body;
    const updatedService = await Service.findByIdAndUpdate(
      req.params.id,
      { name, description },
      { new: true }
    );
    if (!updatedService) return res.status(404).json({ message: 'Service not found' });
    res.json(updatedService);
  } catch (err) {
    res.status(500).json({ message: 'Failed to update service', error: err });
  }
});

// DELETE
app.delete('/api/services/:id', async (req, res) => {
  try {
    const deletedService = await Service.findByIdAndDelete(req.params.id);
    if (!deletedService) return res.status(404).json({ message: 'Service not found' });
    res.json({ message: 'Service deleted' });
  } catch (err) {
    res.status(500).json({ message: 'Failed to delete service', error: err });
  }
});

/* ----------------------------------------------- */

app.listen(PORT, () => {
  console.log(`Server running at http://localhost:${PORT}`);
});
```

Output:

http://localhost:5000/api/services

D:\express-backend>node app.js



localhost:5000/api/services

Pretty-print □

```
[{"_id":"6899931116c1c29c9e9dfa2a","name":"Graphic Design","description":"Creating visual designs and branding materials"},{"_id":"6899933716c1c29c9e9dfa2b","name":"Graphic Design","description":"Creating visual designs and branding materials"},{"_id":"6899933716c1c29c9e9dfa2c","name":"Website Development","description":"Full-stack website development using MERN stack"},{"_id":"6899933716c1c29c9e9dfa2d","name":"Mobile App Development","description":"Building cross-platform mobile applications"}]
```

React Js Front-end Code

C:\Users\RAJ SINGH>D:

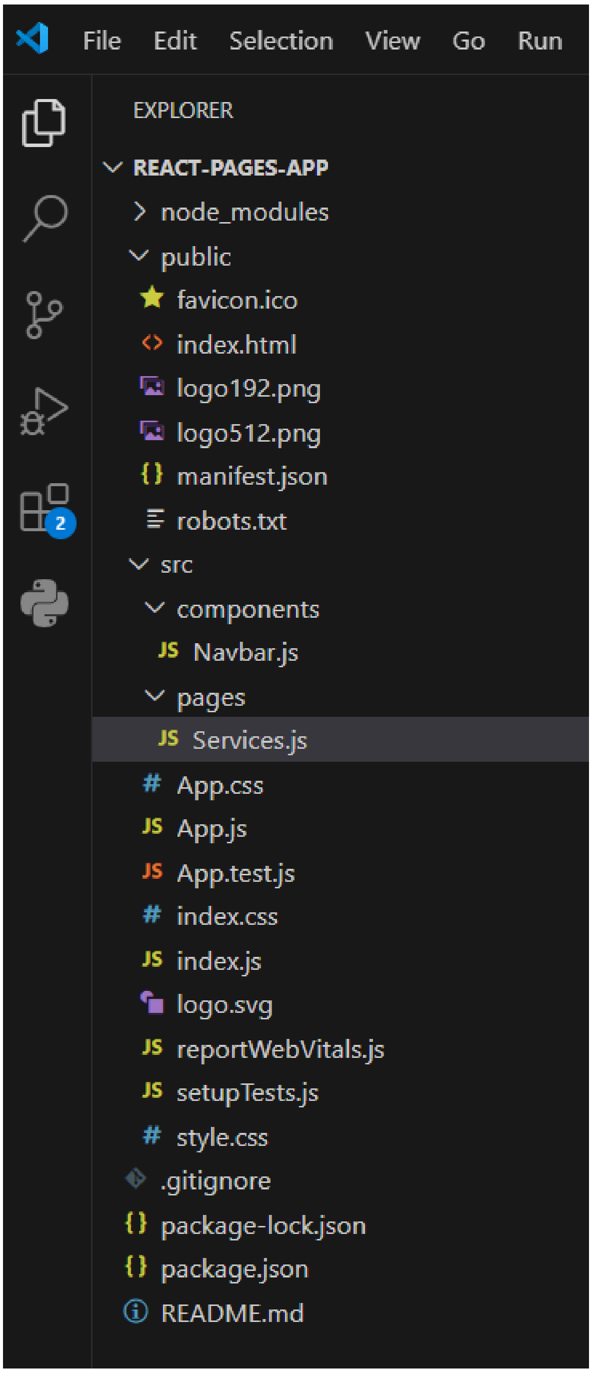
D:\>npx create-react-app react-pages-app

D:\>cd react-pages-app

D:\react-pages-app>npm install react-router-dom

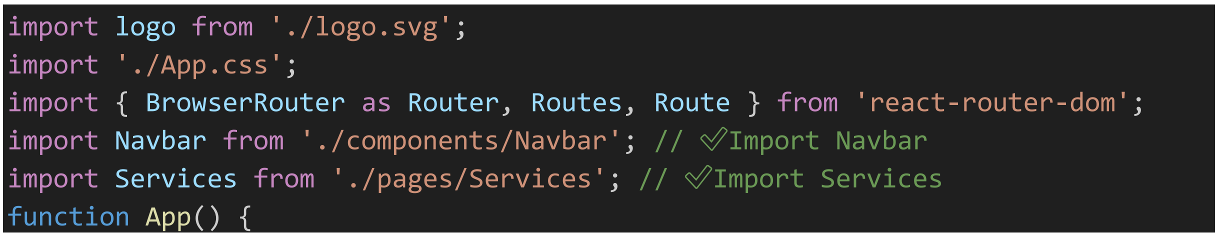
D:\react-pages-app>npm install axios

Project Folder Name (react-pages-app)

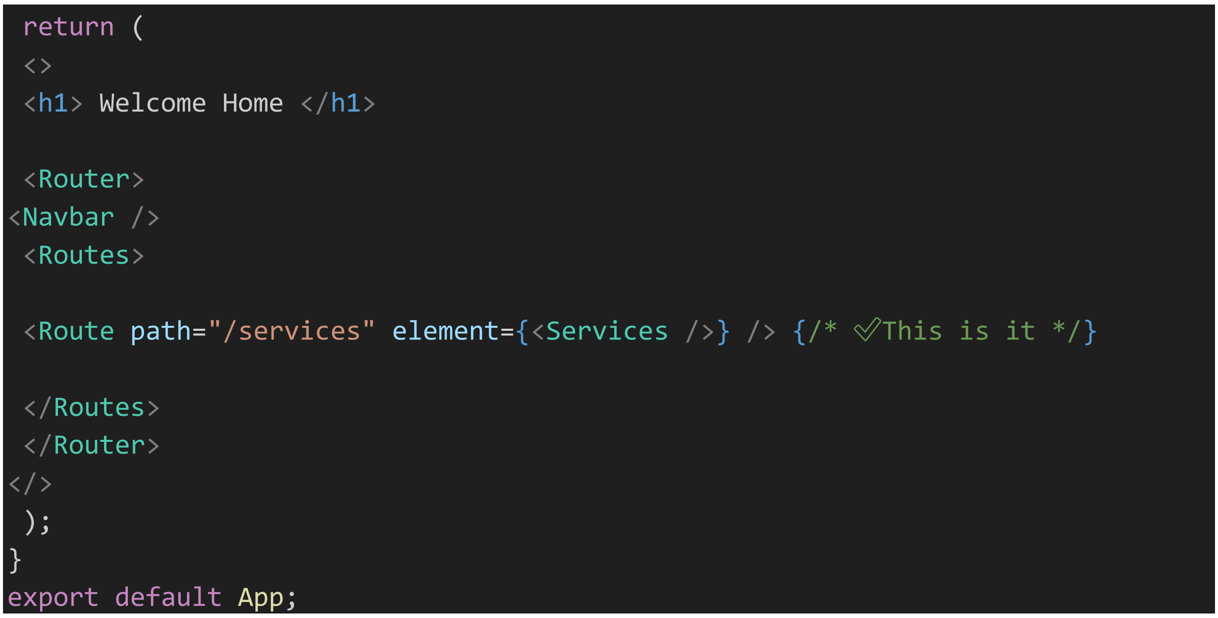


```
REACT-PAGES-APP
  > node_modules
  v public
      favicon.ico
      index.html
      logo192.png
      logo512.png
      manifest.json
      robots.txt
  v src
    v components
        Navbar.js
    v pages
        Services.js
      App.css
      App.js
      App.test.js
      index.css
      index.js
      logo.svg
      reportWebVitals.js
      setupTests.js
      style.css
    .gitignore
    package-lock.json
    package.json
    README.md
```

App.js:-

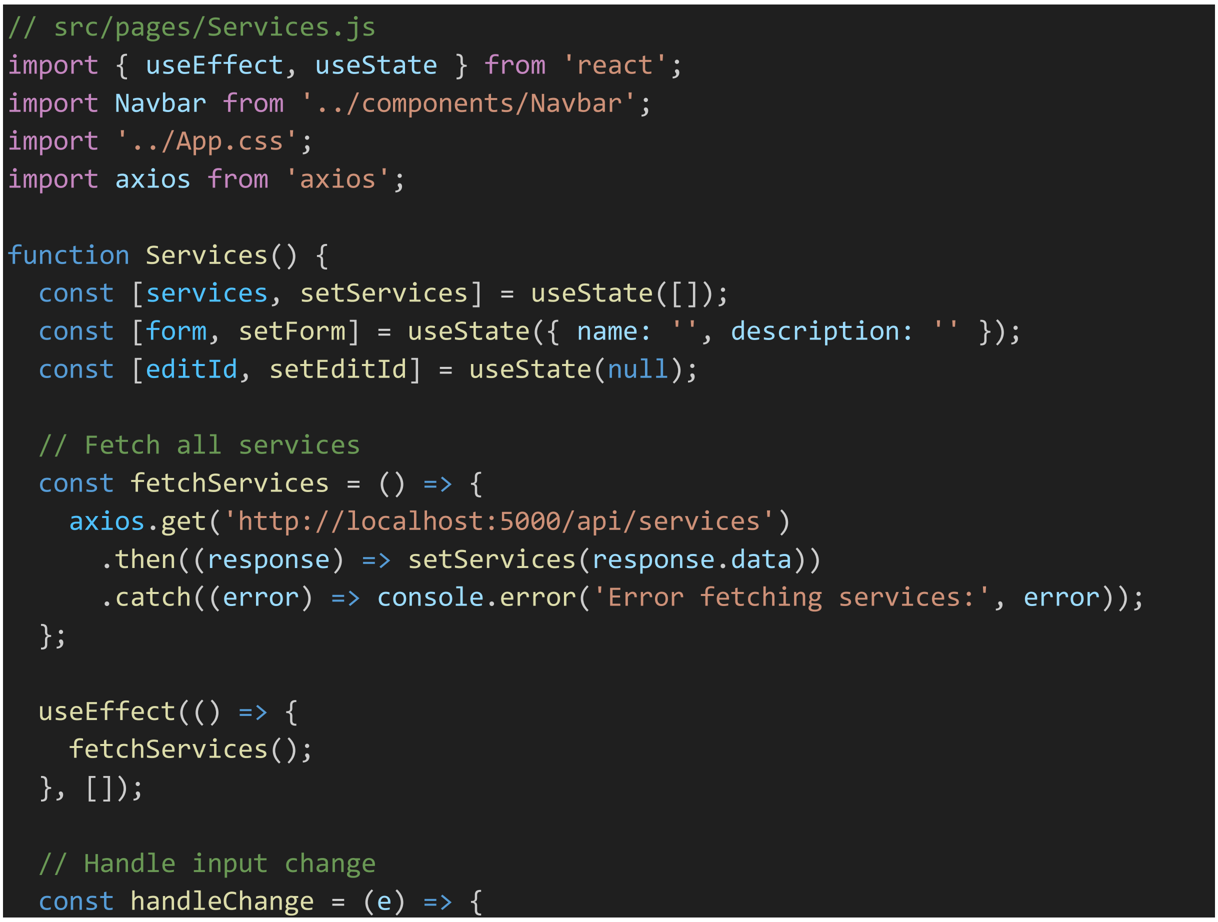


```
import logo from './logo.svg';
import './App.css';
import { BrowserRouter as Router, Routes, Route } from 'react-router-dom';
import Navbar from './components/Navbar'; // ✅Import Navbar
import Services from './pages/Services'; // ✅Import Services
function App() {
```

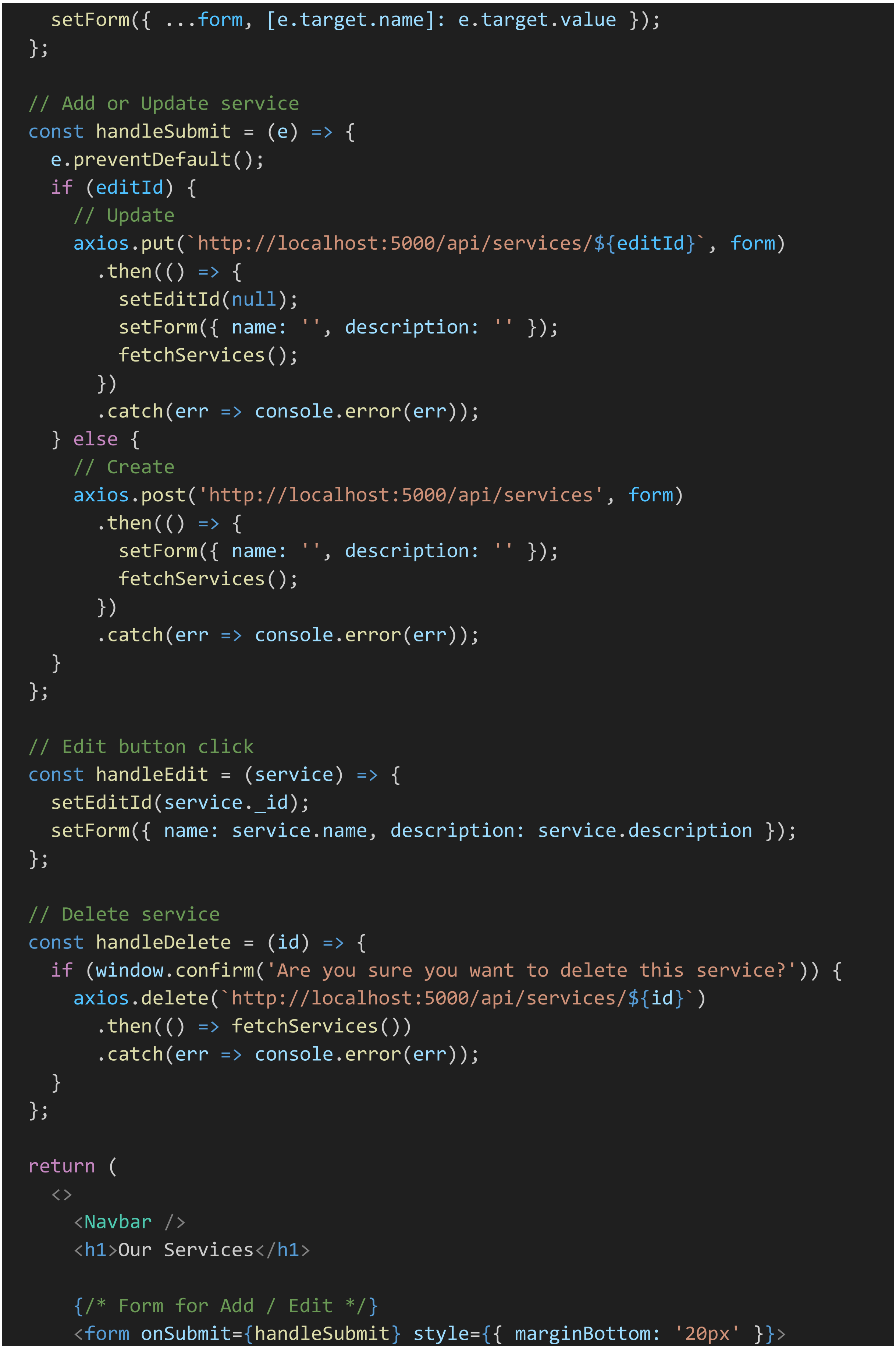


```
 return (
 <>
 <h1> Welcome Home </h1>

 <Router>
<Navbar />
 <Routes>

 <Route path="/services" element={<Services />} /> {/* ✅This is it */}

 </Routes>
 </Router>
</>
 );
}
export default App;
```

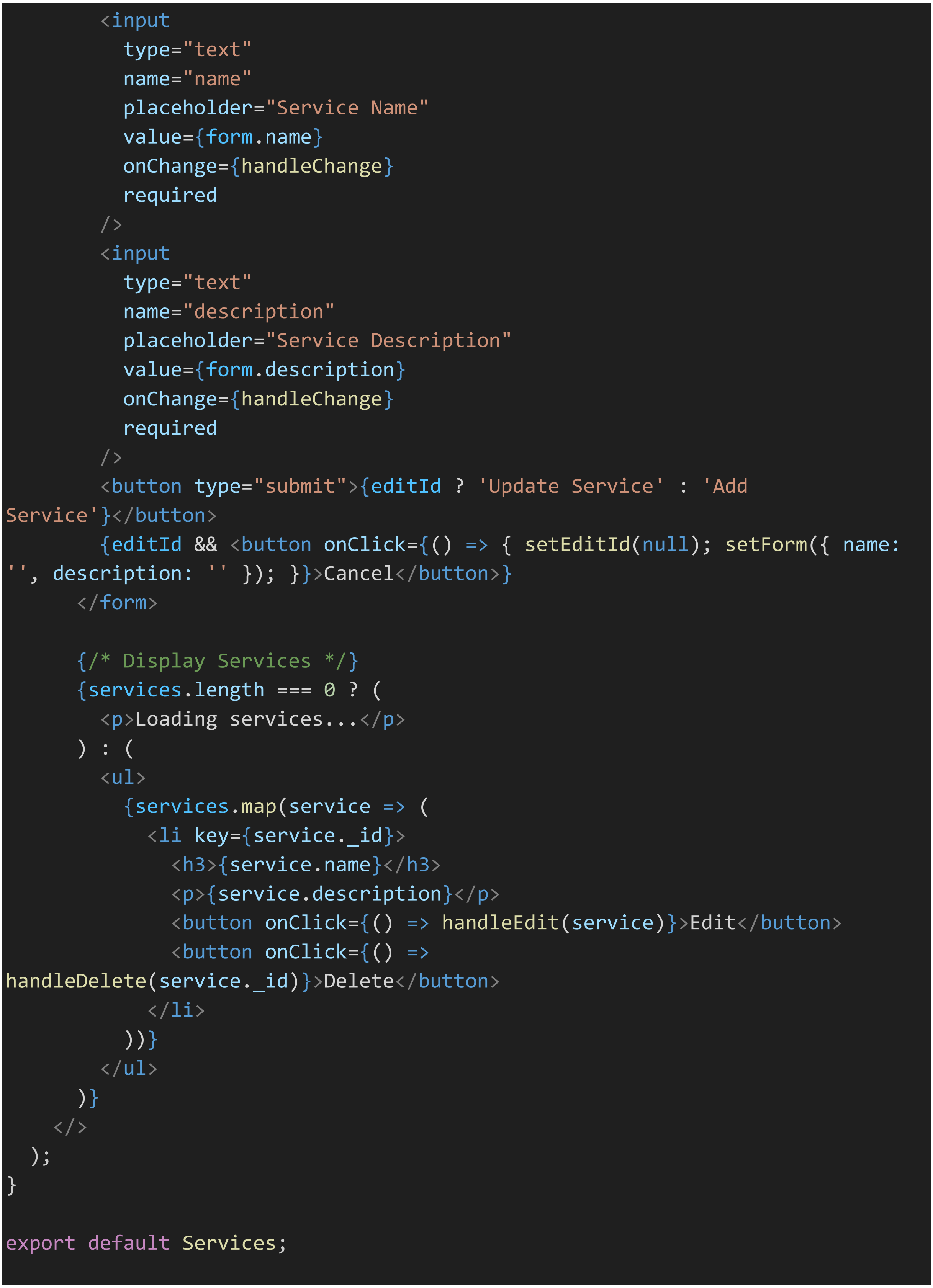
Services.js



```
// src/pages/Services.js
import { useEffect, useState } from 'react';
import Navbar from '../components/Navbar';
import '../App.css';
import axios from 'axios';

function Services() {
  const [services, setServices] = useState([]);
  const [form, setForm] = useState({ name: '', description: '' });
  const [editId, setEditId] = useState(null);

  // Fetch all services
  const fetchServices = () => {
    axios.get('http://localhost:5000/api/services')
      .then((response) => setServices(response.data))
      .catch((error) => console.error('Error fetching services:', error));
  };

  useEffect(() => {
    fetchServices();
  }, []);

  // Handle input change
  const handleChange = (e) => {
```

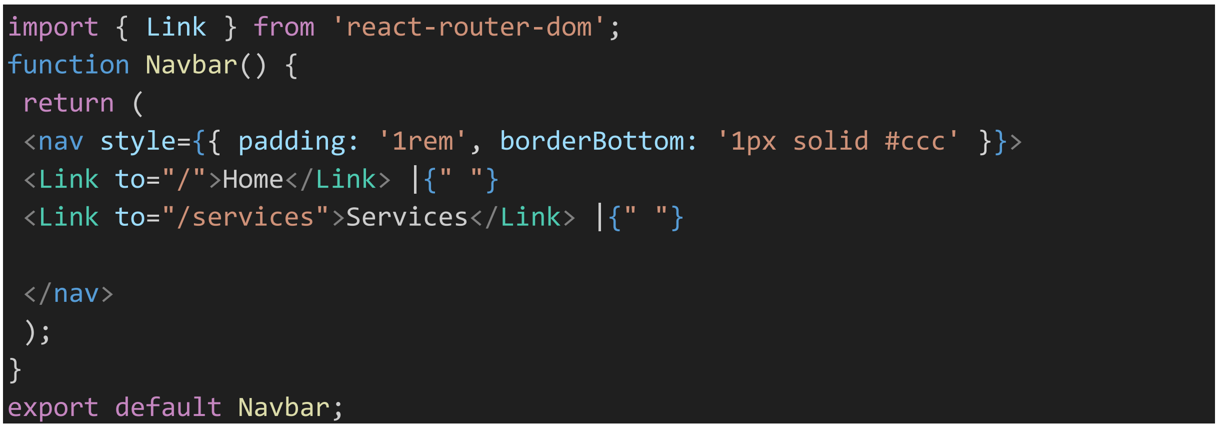


```
  setForm({ ...form, [e.target.name]: e.target.value });
};

// Add or Update service
const handleSubmit = (e) => {
  e.preventDefault();
  if (editId) {
    // Update
    axios.put(`http://localhost:5000/api/services/${editId}`, form)
      .then(() => {
        setEditId(null);
        setForm({ name: '', description: '' });
        fetchServices();
      })
      .catch(err => console.error(err));
  } else {
    // Create
    axios.post('http://localhost:5000/api/services', form)
      .then(() => {
        setForm({ name: '', description: '' });
        fetchServices();
      })
      .catch(err => console.error(err));
  }
};

// Edit button click
const handleEdit = (service) => {
  setEditId(service._id);
  setForm({ name: service.name, description: service.description });
};

// Delete service
const handleDelete = (id) => {
  if (window.confirm('Are you sure you want to delete this service?')) {
    axios.delete(`http://localhost:5000/api/services/${id}`)
      .then(() => fetchServices())
      .catch(err => console.error(err));
  }
};

return (
  <>
    <Navbar />
    <h1>Our Services</h1>

    {/* Form for Add / Edit */}
    <form onSubmit={handleSubmit} style={{ marginBottom: '20px' }}>
```



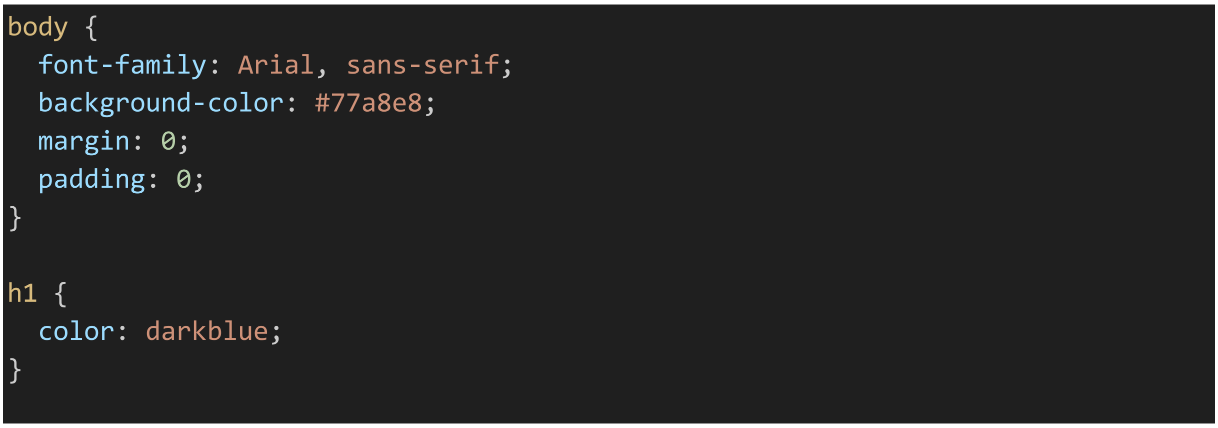
```
        <input
          type="text"
          name="name"
          placeholder="Service Name"
          value={form.name}
          onChange={handleChange}
          required
        />
        <input
          type="text"
          name="description"
          placeholder="Service Description"
          value={form.description}
          onChange={handleChange}
          required
        />
        <button type="submit">{editId ? 'Update Service' : 'Add
Service'}</button>
        {editId && <button onClick={() => { setEditId(null); setForm({ name:
'', description: '' }); }}>Cancel</button>}
      </form>

      {/* Display Services */}
      {services.length === 0 ? (
        <p>Loading services...</p>
      ) : (
        <ul>
          {services.map(service => (
            <li key={service._id}>
              <h3>{service.name}</h3>
              <p>{service.description}</p>
              <button onClick={() => handleEdit(service)}>Edit</button>
              <button onClick={() =>
handleDelete(service._id)}>Delete</button>
            </li>
          ))}
        </ul>
      )}
    </>
  );
}

export default Services;
```

Navbar.js:-



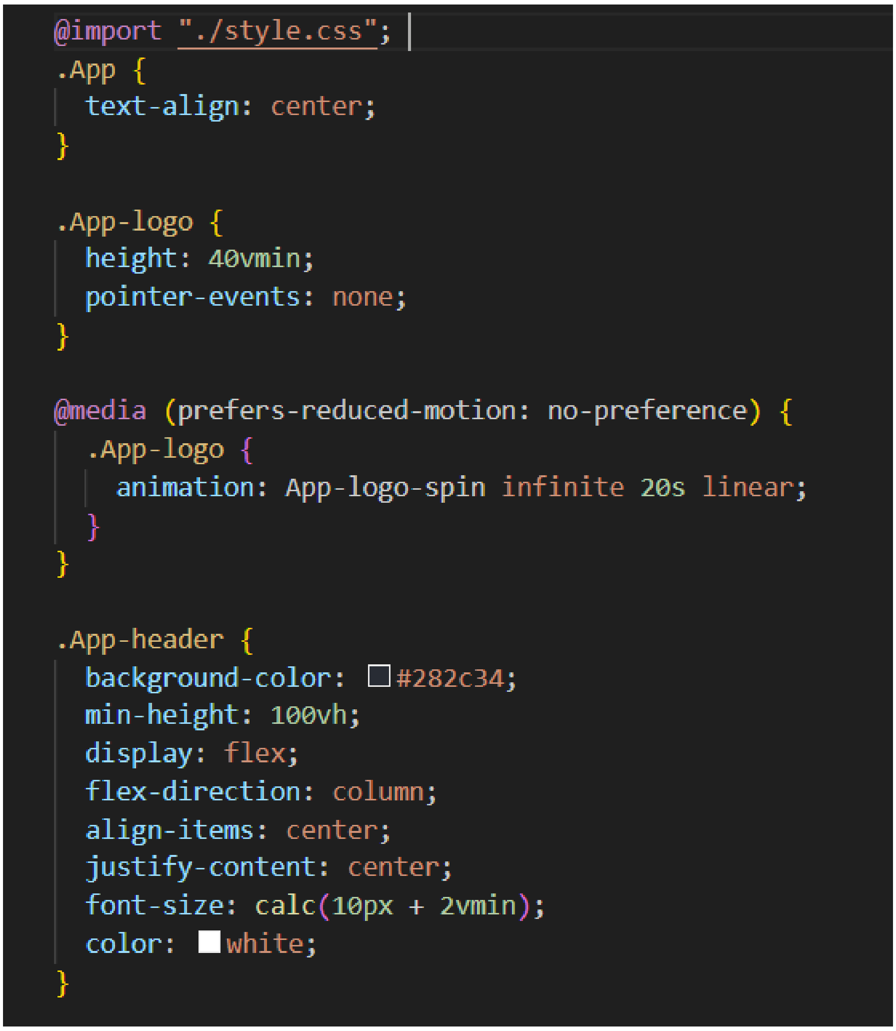
```
import { Link } from 'react-router-dom';
function Navbar() {
 return (
 <nav style={{ padding: '1rem', borderBottom: '1px solid #ccc' }}>
 <Link to="/">Home</Link> |{" "}
 <Link to="/services">Services</Link> |{" "}

 </nav>
 );
}
export default Navbar;
```

style.css:-



```
body {
  font-family: Arial, sans-serif;
  background-color: #77a8e8;
  margin: 0;
  padding: 0;
}

h1 {
  color: darkblue;
}
```

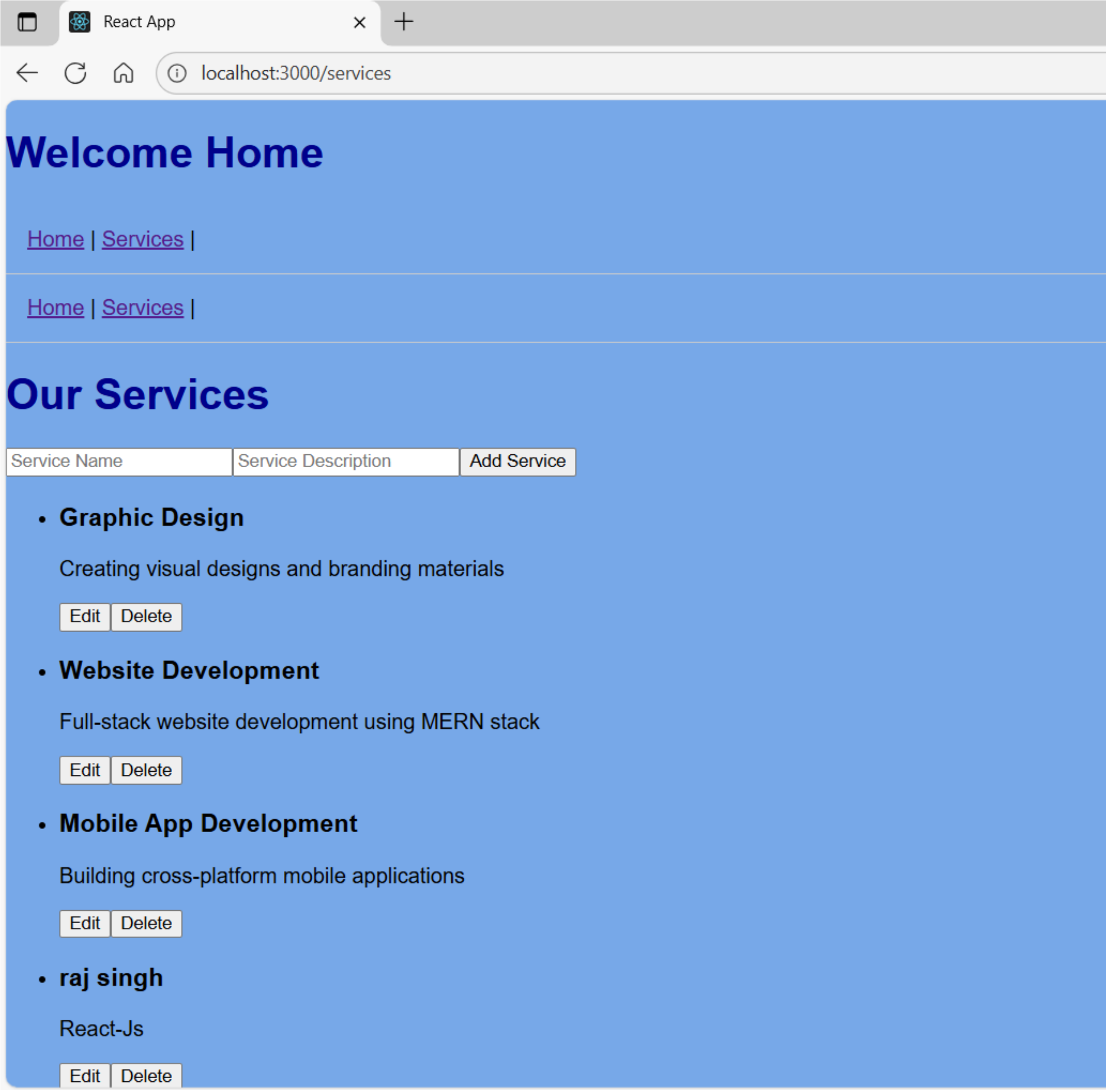
app.css:-



```css
@import "./style.css";
.App {
  text-align: center;
}

.App-logo {
  height: 40vmin;
  pointer-events: none;
}

@media (prefers-reduced-motion: no-preference) {
  .App-logo {
    animation: App-logo-spin infinite 20s linear;
  }
}

.App-header {
  background-color: #282c34;
  min-height: 100vh;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  font-size: calc(10px + 2vmin);
  color: white;
}
```

Output :-

http://localhost:3000/services



Welcome Home

Home | Services |

Home | Services |

Our Services

- **Graphic Design**

  Creating visual designs and branding materials

- **Website Development**

  Full-stack website development using MERN stack

- **Mobile App Development**

  Building cross-platform mobile applications

- **raj singh**

  React-Js