

React frontend with your **Express.js backend** to display dynamic data — for example, sending a list of services, team members, or FAQs from the backend to show in your React app.

□ What We'll Do

1. **Create a simple Express.js backend** that serves JSON data.
2. **Fetch that data in your React frontend** using `fetch` or `axios`.
3. **Display the data** in a component (e.g. in services)

1. Backend – Express-js API

Assuming you're working in a folder like `express-backend/`:

Express js setup :-

1)open command prompt and type following command:-

As shown below

```
mkdir express-backend
```

```
cd express-backend
```

2)and then type following command:-

```
npm init -y
```

as shown below:-

```
D:\express-backend>npm init -y
Wrote to D:\express-backend\package.json:

{
  "name": "express-backend",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "type": "commonjs"
}
```

Create app.js file under your project folder and write following code:-

```
const express = require('express');

const cors = require('cors');

const app = express();

const PORT = 5000;

// Middleware

app.use(cors()); // Allow requests from frontend

app.use(express.json());

// Sample data (could be from a database later)

const services = [

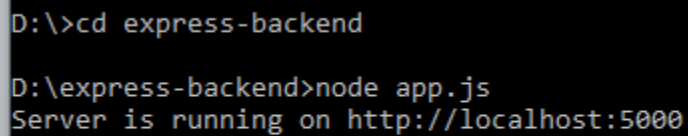
  { id: 1, name: 'Web Development', description: 'Modern websites with React, Vue, etc.' },
```

```
{ id: 2, name: 'Mobile Apps', description: 'Cross-platform apps with Flutter or React Native.' },  
{ id: 3, name: 'UI/UX Design', description: 'User-centered design and prototyping.' },  
];
```

```
// Route to get services
```

```
app.get('/api/services', (req, res) => {  
  res.json(services);  
});
```

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



```
D:\>cd express-backend  
D:\express-backend>node app.js  
Server is running on http://localhost:5000
```

And check backend output at :-

<http://localhost:5000/api/services>

React – Fetch & Display Data

Assuming your React project is in a separate folder (e.g., react-pages-app):

Front End React js setup :-

```
D:\>npx create-react-app react-pages-app  
Creating a new React app in D:\react-pages-app.  
Installing packages. This might take a couple of minutes.  
Installing react, react-dom, and react-scripts with cra-template...  
|_
```

And install axios :-

```
D:\react-pages-app>npm install axios  
added 3 packages, and audited 1344 packages in 4s  
269 packages are looking for funding  
run `npm fund` for details
```

And install react-router-dom for routing :-

```
npm list react-router-dom
```

And your app.js file code :-

```
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;
```

src/pages/Services.js file code :-

```
// src/pages/Services.js  
import { useEffect, useState } from 'react';
```

```
import Navbar from '../components/Navbar';

import axios from 'axios';

function Services() {

  const [services, setServices] = useState([]);

  useEffect(() => {

    axios.get('http://localhost:5000/api/services')

      .then((response) => {

        setServices(response.data);

      })

      .catch((error) => {

        console.error('Error fetching services:', error);

      });

  }, []);

  return (

    <>

      <Navbar />

      <h1>Our Services</h1>

      {services.length === 0 ? (

        <p>Loading services...</p>

      ) : (

        <ul>

          {services.map(service => (
```

```
    <li key={service.id}>
      <h3>{service.name}</h3>
      <p>{service.description}</p>
    </li>
  )}
</ul>
)}
</>
);
}
```

```
export default Services;
```

now your `src/components/Navbar.js` file code :-

```
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;
```

now you run it :-

```
npm start
```

Output:-

<http://localhost:3000/services>

Welcome Home

[Home](#) | [Services](#) |

Our Services

- **Web Development**

Modern websites with React, Vue, etc.

- **Mobile Apps**

Cross-platform apps with Flutter or React Native.

- **UI/UX Design**

User-centered design and prototyping.