

Backend (Express.js)

Folder structure

```
backend
├── package.json
└── server.js
```

backend/package.json

```
{
  "name": "backend",
  "version": "1.0.0",
  "main": "server.js",
  "scripts": {
    "start": "node server.js"
  },
  "dependencies": {
    "express": "^4.18.2",
    "cors": "^2.8.5"
  }
}
```

backend/server.js

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

const app = express();
const PORT = 5000;

app.use(cors());

app.get("/", (req, res) => {
  res.send("Hello World");
});

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

Frontend (React.js)

Folder structure

```
frontend
├── package.json
├── src
│   └── App.js
```

└─ index.js

frontend/package.json

```
{
  "name": "frontend",
  "version": "1.0.0",
  "private": true,
  "dependencies": {
    "react": "^18.2.0",
    "react-dom": "^18.2.0",
    "react-scripts": "5.0.1"
  },
  "scripts": {
    "start": "react-scripts start"
  }
}
```

frontend/src/index.js

```
import React from "react";
import ReactDOM from "react-dom/client";
import App from "./App";

const root = ReactDOM.createRoot(document.getElementById("root"));
root.render(<App />);
```

frontend/src/App.js

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

function App() {
  const [message, setMessage] = useState("");

  useEffect(() => {
    fetch("http://localhost:5000/")
      .then(res => res.text())
      .then(data => setMessage(data));
  }, []);

  return (
    <div style={{ padding: "20px", fontSize: "24px" }}>
      {message}
    </div>
  );
}

export default App;
```

3 How to Run in VS Code (Step-by-Step)

Step 1: Open VS Code

- Open **VS Code**
 - Create a main folder, e.g.
 - react-express-hello
 - Inside it, create two folders:
 - backend
 - frontend
-

Step 2: Run Backend (Express)

1. Open **terminal** in VS Code
2. Go to backend folder:
3. `cd backend`
4. Install dependencies:
5. `npm install`
6. Start server:
7. `npm start`
8. Output should be:
9. Server running on `http://localhost:5000`
10. Open browser and visit:
11. `http://localhost:5000`

You will see **Hello World**

Step 3: Run Frontend (React)

1. Open **new terminal** in VS Code
2. Go to frontend folder:
3. `cd frontend`
4. Install dependencies:
5. `npm install`
6. Start React app:
7. `npm start`
8. Browser opens automatically at:
9. `http://localhost:3000`
10. Page will display:

Hello World