```
// Orders.js
const mongoose = require('mongoose');

const OrdersSchema = new mongoose.Schema({
    OrderID: String,
    CustomerName: String,
    ProductName: String,
    Quantidy: Number,
    Date: { type: Date, default: Date.now }
});

module.exports = mongoose.model('Orders', OrdersSchema);
```

```
const express = require('express');
const mongoose = require('mongoose');
const cors = require('cors');
const Orders = require('./Orders');
const app = express();
app.use(express.json());
app.use(cors());
mongoose.connect('mongodb://localhost:27017/', { useNewUrlParser: true,
useUnifiedTopology: true })
  .then(() => console.log('Connected to MongoDB'))
  .catch((err) => console.log(err));
app.get('/api', async (req, res) => {
   const data = await Orders.find();
   res.status(200).send(data);
 } catch (error) {
    res.status(500).send(error);
});
app.get('/api/id/:id', async (req, res) => {
    const data = await Orders.findOne({ OrderID: req.params.id });
    data ? res.status(200).send(data) : res.send('Order Not Found');
```

```
res.status(500).send(error);
});
app.post('/api/create', async (req, res) => {
   const { OrderID, CustomerName, ProductName, Quantidy } = req.body;
    const newOrder = new Orders({ OrderID, CustomerName, ProductName,
Quantidy });
   await newOrder.save();
   res.status(200).send(newOrder);
 } catch (error) {
   res.status(500).send(error);
});
app.delete('/api/delete/:id', async (req, res) => {
   const data = await Orders.findOneAndDelete({ OrderID: req.params.id
});
   data ? res.status(200).send('Order Deleted') : res.send('Order Not
Found');
 } catch (error) {
    res.status(500).send(error);
});
app.put('/api/update/:id', async (req, res) => {
   const data = await Orders.findOneAndUpdate({ OrderID: req.params.id
}, { $set: { Quantidy: req.body.Quantidy } }, { new: true });
   data ? res.status(200).send('Updated Successfully') :
res.send('Order Not Found');
   res.status(500).send(error);
});
app.listen(5002, () => {
 console.log('Server is running on port 5002');
});
```

```
import React, { useState } from "react";
import axios from 'axios';
import "bootstrap/dist/css/bootstrap.min.css";
import { Button, Form, FormGroup, Input, Label } from "reactstrap";
function AddOrder() {
 const [data, sendData] = useState({
   OrderID: "",
   CustomerName: "",
   ProductName: "",
   Quantidy: 0
 const handleSubmit = async (e) => {
     e.preventDefault();
axios.post("http://localhost:5002/api/create", data);
       alert('Added Successfully');
        alert('Cannot add');
     console.log(error);
     <Form onSubmit={handleSubmit}>
       <FormGroup>
          <Label>Order Id: </Label>
         <Input type="text" placeholder="Enter Id"</pre>
value={data.OrderID} onChange={(e) => sendData({ ...data, OrderID:
e.target.value }) } />
       </FormGroup>
          <Label>Customer Name: </Label>
          <Input type="text" placeholder="Enter Customer Name"</pre>
value={data.CustomerName} onChange={(e) => sendData({ ...data,
CustomerName: e.target.value }) } />
```

```
// DeleteOrder.js
import React, { useState } from "react";
import axios from 'axios';
import { Button, Form, FormGroup, Input, Label } from "reactstrap";

function DeleteOrder() {
  const [id, setId] = useState("");

  const handleSubmit = async (e) => {
    try {
      e.preventDefault();
      const response = await

axios.delete(`http://localhost:5002/api/delete/${id}`);
    if (response) {
      alert('Deleted');
    } else {
      alert('Not Found');
    }
  } catch (error) {
      console.log(error);
```

```
// SearchOrder.js
import React, { useState } from "react";
import axios from 'axios';
import { Button, Form, FormGroup, Input, Label } from "reactstrap";

function SearchOrder() {
  const [id, setId] = useState("");
  const [data, setData] = useState(null);

  const handleSubmit = async (e) => {
    try {
      e.preventDefault();
      const response = await

  axios.get(`http://localhost:5002/api/id/${id}`);
    if (response) {
      setData(response.data);
    } else {
       alert('Not Found');
    }
    } catch (error) {
      console.log(error);
    }
};
```

```
// UpdateOrder.js
import React, { useState } from "react";
import axios from 'axios';
import { Button, Form, FormGroup, Input, Label } from "reactstrap";

function UpdateOrder() {
  const [id, setId] = useState("");
  const [q, setQ] = useState(null);

  const handleSubmit = async (e) => {
    try {
      e.preventDefault();
      const response = await

axios.put(`http://localhost:5002/api/update/${id}`, { Quantidy: q });
    if (response) {
        alert('Updated');
    }
}
```

```
alert('Not Found');
     console.log(error);
     <Form onSubmit={handleSubmit}>
       <FormGroup>
         <Label>Order Id: </Label>
         <Input type="text" placeholder="Enter Id" value={id}</pre>
onChange={(e) => setId(e.target.value)} />
       </FormGroup>
         <Label>Updated Quantidy: </Label>
         <Input type="number" placeholder="Enter Quantidy" value={q}</pre>
onChange={ (e) => setQ(e.target.value) } />
        </FormGroup>
        <Button color="primary" type="submit">Submit
     </Form>
export default UpdateOrder;
```

```
import React from 'react';
import { BrowserRouter as Router, Routes, Route, Link } from
"react-router-dom";

// Import your components
import AddOrder from './components/AddOrder';
import UpdateOrder from './components/UpdateOrder';
import SearchOrder from './components/SearchOrder';
import DeleteOrder from './components/DeleteOrder';
const App = () => {
```

Directory: C:\Users\srini\AppOrder

```
Mode
                LastWriteTime
                                   Length Name
d---- 12-11-2024 01:44
                                       backend
PS C:\Users\srini\AppOrder> cd backend
Create files
server.js
orders.js and write code,save
PS C:\Users\srini\AppOrder\backend> npm init -y
 "name": "backend",
 "version": "1.0.0",
 "main": "Orders.js",
 "scripts": {
  "test": "echo \"Error: no test specified\" && exit 1",
  "start": "node server.js"
 },
 "keywords": [],
 "author": "",
 "license": "ISC",
 "description": ""
}
PS C:\Users\srini\AppOrder\frontend> echo webpack.config.js
InputObject[1]:
webpack.config.js
PS C:\Users\srini\AppOrder\frontend> echo > webpack.config.js
cmdlet Write-Output at command pipeline position 1
Supply values for the following parameters:
InputObject[0]:
```

```
const path = require('path');
const HtmlWebpackPlugin = require('html-webpack-plugin');
module.exports = {
 entry: './src/app/index.js',
 output: {
   path: path.resolve( dirname, 'dist'),
 mode: process.env.NODE ENV || 'development',
 module: {
    rules: [
       use: 'babel-loader',
        test: /\.svg$/,
        test: /\.css$/i,
      template: './public/index.html',
```

After writing webpack file, create a sub folder called app, and inside that create index.js file

/public/index.html Write the code

Now:

```
frontend > (1) package.json > ...

webpack.configjs... U
oindex.html fronte... M
for index.js frontends... W
Js index.js frontends... U
APPORDER L D O
Forntend S

y public
faviconico

webpack.configjs... U
frontend > (1) package.json > ...
"dependencies": {
"@testing-library/jest-dom": "^5.17.0",
"@testing-library/react": "^13.4.0",
"@testing-library/user-event": "^13.5.0",
"bootstrap": "^5.3.3",
"react": "^18.3.1",
"react-dom": "^18.3.1",
"react-scripts": "5.0.1",
"react-strap": "^9.2.3",
"web-vitals": "^2.1.4"
                                                                                                                                      index.html M
                                                                                                                                                                                       {} package.json M X JS index.js ...\src M
                                                                   "web-vitals": "^2.1.4"

},

Debug

"scripts": {

"build": "webpack serve --config webpack.config.js --mode development",

"build": "webpack --config webpack.config.js --mode production"

"build": "webpack --config webpack.config.js --mode production"

"eslintConfig": {

"extends": [
  "extends": [
    "react-app",
    "react-app/jest"
]
      JS App.test.js
# index.css
                                                                                                                                                                                                                                                                             ./src/app/index.js 641 bytes [built] [code generated] webpack 5.96.1 compiled successfully in 1163 ms ⟨i> [webpack-dev-server] Gracefully shutting down. To ^C again. Please wait...
Terminate batch job (Y/N)? y

■ PS C:\Users\srini\AppOrder\frontend> npm run build
       JS index.js
      logo.svg
       JS reportWebVitals.js
       JS setupTests.js
                                                                             Server is running on port 5002
                                                                                                                                                                                                                                                                                   > frontend@0.1.0 build
> webpack --config webpack.config.js --mode production
    {} package.json

 README.md
```

In package.json, change scripts for webpacks, do this after showing all frontend and backend

PS C:\Users\srini\AppOrder\frontend> npm start

```
> frontend@0.1.0 start
```

> webpack serve --config webpack.config.js --mode development

```
<i> [webpack-dev-server] Project is running at:
```

- <i> [webpack-dev-server] Loopback: http://localhost:8080/
- <i> [webpack-dev-server] On Your Network (IPv4): http://172.22.35.231:8080/
- <i> [webpack-dev-server] Content not from webpack is served from

'C:\Users\srini\AppOrder\frontend\public' directory

asset bundle.js 306 KiB [emitted] (name: main)

asset index.html 283 bytes [emitted]

runtime modules 27.4 KiB 12 modules

modules by path ./node modules/ 214 KiB

modules by path ./node_modules/webpack-dev-server/client/ 76.3 KiB 16 modules modules by path ./node modules/webpack/hot/*.js 5.2 KiB

./node modules/webpack/hot/dev-server.js 1.91 KiB [built] [code generated]

./node_modules/webpack/hot/log.js 1.75 KiB [built] [code generated]

+ 2 modules

modules by path ./node_modules/html-entities/lib/*.js 114 KiB

./node_modules/html-entities/lib/index.js 5.72 KiB [built] [code generated]

./node modules/html-entities/lib/named-references.js 107 KiB [built] [code generated]

./node_modules/html-entities/lib/numeric-unicode-map.js 464 bytes [built] [code generated]

./node_modules/html-entities/lib/surrogate-pairs.js 613 bytes [built] [code generated]

./node_modules/ansi-html-community/index.js 4.25 KiB [built] [code generated] ./node_modules/events/events.js 13.9 KiB [built] [code generated] ./src/app/index.js 641 bytes [built] [code generated]

webpack 5.96.1 compiled successfully in 1163 ms //this indicates that webpack is done successfully

<i> [webpack-dev-server] Gracefully shutting down. To force exit, press ^C again. Please wait

Webpack is compiled successfully

To check if your application is running properly after the build and if the Webpack bundle has been correctly created, follow these steps:

1. Ensure Webpack Dev Server is Running

If you're using Webpack Dev Server for development, you should run the following command:

bash Copy code npm start

This will start the development server and you should see the output indicating that it's running on a local address, typically something like:

```
csharp
Copy code
Project is running at:
Loopback: http://localhost:8080/
On Your Network (IPv4): http://<your-ip>:8080/
```

Visit http://localhost:8080/ in your browser. If everything is set up correctly, you should see your application rendered.

Directory:

//in frontend you can see dist/ bundle.js —proof for webpack

∨ APPORDER	
∨ backend	
JS Orders.js	
<pre>{} package.json</pre>	
JS server.js	
✓ frontend	
> build	
✓ dist	
JS bundle.js	U
<>→ index.html	U
> node_modules	
∨ public	
★ favicon.ico	
<>→ index.html	М
🖾 logo192.png	
🖾 logo512.png	
{} manifest.json	
≡ robots.txt	
∨ src	
∨ app	
Js index.js	U
✓ components	
JS AddOrder.js	U
JS DeleteOrder.js	U
JS SearchOrder.js	U
JS UpdateOrder.js	U
# App.css	
J s App.js	М
Js App.test.js	
# index.css	
JS index.js	М
¹ logo.svg	

🖾 logo192.png	
🖾 logo512.png	
{} manifest.json	
≡ robots.txt	
∨ src	
∨ app	
JS index.js	U
✓ components	
JS AddOrder.js	U
JS DeleteOrder.js	U
JS SearchOrder.js	U
JS UpdateOrder.js	U
# App.css	
JS App.js	М
Js App.test.js	
# index.css	
JS index.js	М
¹ logo.svg	
JS reportWebVitals.js	
JS setupTests.js	
.gitignore	
{} package-lock.json	М
{} package.json	М
 README.md 	
webpack.config.js	U