

Job Board Website Code and Structure

Project Overview

1. Frontend: HTML, CSS, and JavaScript (React for interactivity).
2. Backend: Node.js (with Express.js).
3. Database: MongoDB.

Project Directory Structure

```
job-board/  
  ■■■ backend/      # Node.js backend  
  ■■■ frontend/     # React frontend  
  ■■■ package.json  # Project dependencies
```

1. Frontend: React (HTML + CSS + JavaScript)

Steps to create React App:

1. Run: `npx create-react-app frontend`

Replace frontend/src/App.js with:

```
import React, { useEffect, useState } from "react";  
import "./App.css";
```

```
function App() {  
  const [jobs, setJobs] = useState([]);  
  
  useEffect(() => {  
    fetch("http://localhost:5000/jobs")  
      .then((response) => response.json())  
      .then((data) => setJobs(data));  
  }, []);  
  
  return (  
    <div className="App">  
      <header>  
        <h1>Job Board</h1>  
      </header>  
      <main>  
        <div className="job-list">  
          {jobs.map((job, index) => (  
            <div key={index} className="job-card">  
              <h2>{job.title}</h2>  
              <p>{job.company}</p>  
              <p>{job.location}</p>  
            </div>  
          ))}  
        </div>  
      </main>  
    </div>  
  );  
}
```

export default App;

Replace frontend/src/App.css with:

```
-----  
body { font-family: Arial, sans-serif; margin: 0; padding: 0; }  
header { background-color: #6200ea; color: white; padding: 1rem; text-align: center; }  
main { padding: 1rem; }  
.job-list { display: grid; gap: 1rem; grid-template-columns: repeat(auto-fit, minmax(300px, 1fr)); }  
.job-card { border: 1px solid #ddd; border-radius: 5px; padding: 1rem; box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1); }
```

2. Backend: Node.js + Express.js

Steps to create the backend:

1. mkdir backend && cd backend
2. npm init -y
3. npm install express mongoose cors body-parser

index.js:

```
-----  
const express = require("express");  
const mongoose = require("mongoose");  
const cors = require("cors");  
  
const app = express();  
app.use(cors());  
app.use(express.json());  
  
mongoose.connect("mongodb://localhost:27017/job-board", { useNewUrlParser: true, useUnifiedTopology: true })  
  .then(() => console.log("MongoDB connected"))  
  .catch((err) => console.log(err));  
  
const jobSchema = new mongoose.Schema({  
  title: String,  
  company: String,  
  location: String,  
});  
  
const Job = mongoose.model("Job", jobSchema);  
  
app.get("/jobs", async (req, res) => {  
  const jobs = await Job.find();  
  res.json(jobs);  
});  
  
app.post("/jobs", async (req, res) => {  
  const newJob = new Job(req.body);  
  await newJob.save();  
  res.json(newJob);  
});  
  
const PORT = 5000;  
app.listen(PORT, () => console.log(`Server running on port ${PORT}`));
```

3. Database: MongoDB

Install MongoDB and start the server: mongod

4. Running the Application

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1. Start the backend: node index.js
 2. Start the React frontend: cd frontend && npm start