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🧩 Arquivo raiz — package.json

json

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{

"name": "agromarket",

"version": "1.0.0",

"scripts": {

"dev": "concurrently \"npm run dev --prefix backend\" \"npm run dev --prefix frontend\""

},

"devDependencies": {

"concurrently": "^8.2.0"

}

}

📘 README.md

md

Copiar código

# AgroMarket 🌾

Marketplace for farmers + real-time weather via Meteomatics API.

### 🚀 Run locally

```bash

npm install

npm run dev

Backend: http://localhost:4000

Frontend: http://localhost:5173

Fill in your .env file inside /backend with:

ini

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METEOMATICS\_USER=your\_username

METEOMATICS\_PASS=your\_password

pgsql

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---

## ⚙️ `backend/package.json`

```json

{

"name": "backend",

"version": "1.0.0",

"main": "index.js",

"scripts": {

"dev": "nodemon index.js"

},

"dependencies": {

"axios": "^1.6.0",

"cors": "^2.8.5",

"dotenv": "^16.3.1",

"express": "^4.18.2"

},

"devDependencies": {

"nodemon": "^3.0.1"

}

}

🌦 backend/index.js

js

Copiar código

const express = require("express");

const cors = require("cors");

const dotenv = require("dotenv");

dotenv.config();

const app = express();

app.use(cors());

app.use(express.json());

const productsRouter = require("./routes/products");

const weatherRouter = require("./routes/weather");

app.use("/api/products", productsRouter);

app.use("/api/weather", weatherRouter);

const PORT = 4000;

app.listen(PORT, () => console.log(`✅ Backend running on port ${PORT}`));

🛒 backend/routes/products.js

js

Copiar código

const express = require("express");

const router = express.Router();

const products = require("../data/products.json");

router.get("/", (req, res) => {

res.json(products);

});

module.exports = router;

☁️ backend/routes/weather.js

js

Copiar código

const express = require("express");

const axios = require("axios");

const router = express.Router();

router.get("/", async (req, res) => {

const { lat, lon } = req.query;

if (!lat || !lon)

return res.status(400).json({ error: "Latitude and longitude required" });

const user = process.env.METEOMATICS\_USER;

const pass = process.env.METEOMATICS\_PASS;

const date = new Date().toISOString().split(".")[0] + "Z";

const url = `https://api.meteomatics.com/${date}/t\_2m:C,precip\_1h:mm,wind\_speed\_10m:ms/${lat},${lon}/json`;

try {

const response = await axios.get(url, {

auth: { username: user, password: pass },

});

res.json(response.data);

} catch (err) {

res.status(500).json({ error: "Weather data fetch failed" });

}

});

module.exports = router;

🌽 backend/data/products.json

json

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[

{ "id": 1, "name": "Corn Seeds", "price": 12.5, "description": "High-yield corn seeds." },

{ "id": 2, "name": "Soybean Seeds", "price": 15.0, "description": "Top-quality soybean seeds." },

{ "id": 3, "name": "Organic Fertilizer", "price": 25.0, "description": "Eco-friendly fertilizer for crops." }

]

🌍 backend/.env.example

env

Copiar código

METEOMATICS\_USER=your\_username

METEOMATICS\_PASS=your\_password

🎨 frontend/package.json

json

Copiar código

{

"name": "frontend",

"version": "1.0.0",

"scripts": {

"dev": "vite",

"build": "vite build",

"preview": "vite preview"

},

"dependencies": {

"axios": "^1.6.0",

"react": "^18.3.0",

"react-dom": "^18.3.0"

},

"devDependencies": {

"tailwindcss": "^3.4.0",

"vite": "^5.0.0"

}

}

🌐 frontend/index.html

html

Copiar código

<!doctype html>

<html lang="en">

<head>

<meta charset="utf-8" />

<meta name="viewport" content="width=device-width, initial-scale=1.0" />

<title>AgroMarket</title>

</head>

<body>

<div id="root"></div>

<script type="module" src="/src/main.jsx"></script>

</body>

</html>

🧠 frontend/src/main.jsx

jsx

Copiar código

import React from "react";

import ReactDOM from "react-dom/client";

import App from "./App";

import "./index.css";

ReactDOM.createRoot(document.getElementById("root")).render(

<React.StrictMode>

<App />

</React.StrictMode>

);

💻 frontend/src/App.jsx

jsx

Copiar código

import React from "react";

import Navbar from "./components/Navbar";

import Home from "./pages/Home";

import Weather from "./pages/Weather";

import Product from "./pages/Product";

import { useState } from "react";

export default function App() {

const [page, setPage] = useState("home");

return (

<div className="min-h-screen bg-gray-50">

<Navbar setPage={setPage} />

{page === "home" && <Home />}

{page === "weather" && <Weather />}

{page === "product" && <Product />}

</div>

);

}

🧭 frontend/src/components/Navbar.jsx

jsx

Copiar código

export default function Navbar({ setPage }) {

return (

<nav className="flex justify-between bg-green-700 text-white p-4">

<h1 className="font-bold text-lg cursor-pointer" onClick={() => setPage("home")}>

🌾 AgroMarket

</h1>

<div className="space-x-4">

<button onClick={() => setPage("home")}>Home</button>

<button onClick={() => setPage("weather")}>Weather</button>

</div>

</nav>

);

}

🏠 frontend/src/pages/Home.jsx

jsx

Copiar código

import { useEffect, useState } from "react";

import axios from "axios";

import ProductCard from "../components/ProductCard";

export default function Home() {

const [products, setProducts] = useState([]);

useEffect(() => {

axios.get("http://localhost:4000/api/products").then((res) => setProducts(res.data));

}, []);

return (

<div className="p-6 grid grid-cols-1 md:grid-cols-3 gap-4">

{products.map((p) => (

<ProductCard key={p.id} product={p} />

))}

</div>

);

}

🌤️ frontend/src/pages/Weather.jsx

jsx

Copiar código

import { useState } from "react";

import axios from "axios";

export default function Weather() {

const [city, setCity] = useState("");

const [data, setData] = useState(null);

async function handleSearch() {

const geo = await axios.get(`https://geocoding-api.open-meteo.com/v1/search?name=${city}`);

if (!geo.data.results?.length) return alert("City not found");

const { latitude, longitude } = geo.data.results[0];

const res = await axios.get(`http://localhost:4000/api/weather?lat=${latitude}&lon=${longitude}`);

setData(res.data);

}

return (

<div className="p-6 text-center">

<input

className="border p-2 rounded mr-2"

placeholder="Enter city name"

value={city}

onChange={(e) => setCity(e.target.value)}

/>

<button onClick={handleSearch} className="bg-green-700 text-white px-4 py-2 rounded">

Search

</button>

{data && (

<pre className="text-left mt-4 bg-gray-100 p-4 rounded">

{JSON.stringify(data, null, 2)}

</pre>

)}

</div>

);

}

🧺 frontend/src/components/ProductCard.jsx

jsx

Copiar código

export default function ProductCard({ product }) {

return (

<div className="border rounded-xl shadow p-4 bg-white">

<h2 className="font-semibold text-lg">{product.name}</h2>

<p className="text-gray-600">{product.description}</p>

<p className="mt-2 font-bold">${product.price.toFixed(2)}</p>

</div>

);

}

Pronto ✅

Copie esse código em uma pasta agromarket/, rode:

bash

Copiar código

npm install

npm run dev