const express = require("express");

const helmet = require("helmet");

const cors = require("cors");

const usersRouter = require("./routes/users");

const app = express();

app.use(express.json());

app.use(cors());

app.use(helmet()); // Security headers

app.use("/api/users", usersRouter);

const PORT = process.env.PORT || 5000;

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

const jwt = require("jsonwebtoken");

function authenticateToken(req, res, next) {

const token = req.headers["authorization"];

if (!token) return res.sendStatus(401);

jwt.verify(token, "SECRET\_KEY", (err, user) => {

if (err) return res.sendStatus(403);

req.user = user;

next();

});

}

module.exports = authenticateToken;

const express = require("express");

const router = express.Router();

const authenticateToken = require("../middleware/auth");

const users = [

{ id: 1, name: "Alice" },

{ id: 2, name: "Bob" }

];

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

res.json(users);

});

module.exports = router;

import React, { useState } from "react";

import DarkModeToggle from "./components/DarkModeToggle";

import SearchFilter from "./components/SearchFilter";

export default function App() {

const [dark, setDark] = useState(false);

return (

<div className={dark ? "bg-gray-900 text-white min-h-screen" : "bg-gray-50 min-h-screen"}>

<div className="p-4">

<DarkModeToggle dark={dark} setDark={setDark} />

<SearchFilter />

<h1 className="text-2xl mt-4">Welcome to My App</h1>

</div>

</div>

);

}

export default function DarkModeToggle({ dark, setDark }) {

return (

<button

onClick={() => setDark(!dark)}

className="border px-3 py-1 rounded hover:bg-gray-300 dark:hover:bg-gray-700"

>

{dark ? "Light Mode" : "Dark Mode"}

</button>

);

}

import React, { useState } from "react";

export default function SearchFilter() {

const [query, setQuery] = useState("");

return (

<input

type="text"

placeholder="Search..."

value={query}

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

className="border p-2 rounded mt-2 w-full"

/>

);

}

import React from "react";

import ReactDOM from "react-dom";

import App from "./App";

import "./styles.css";

ReactDOM.render(<App />, document.getElementById("root"));

const DarkModeToggle = React.lazy(() => import("./components/DarkModeToggle"));

import { render, screen, fireEvent } from "@testing-library/react";

import DarkModeToggle from "./DarkModeToggle";

test("toggles dark mode", () => {

let dark = false;

const setDark = (val) => { dark = val; };

render(<DarkModeToggle dark={dark} setDark={setDark} />);

const button = screen.getByText(/Dark Mode/i);

fireEvent.click(button);

expect(dark).toBe(true);

});