# **🧑‍🏫 שיעור: בניית אפליקציית React מודרנית עם מבנה מקצועי**

## **🧰 דרישות מקדימות:**

* מותקן Node.js (node -v)
* מותקן npm (npm -v)
* עורך קוד (כגון VS Code)

## **🚀 שלב 1: יצירת פרויקט חדש עם Vite**

bash

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npm create vite@latest my-react-app -- --template react

cd my-react-app

npm install

## **📁 שלב 2: יצירת מבנה תיקיות**

bash

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cd src

mkdir api assets components contexts pages

touch api/index.js

touch assets/react.svg

touch components/Navbar.jsx

touch contexts/UserContext.jsx

touch pages/Login.jsx

touch pages/Register.jsx

cd ..

### **🧱 עץ הפרויקט (המחשה)**

pgsql

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my-react-app

├── public

├── src

│ ├── api

│ │ └── index.js

│ ├── assets

│ │ └── react.svg

│ ├── components

│ │ └── Navbar.jsx

│ ├── contexts

│ │ └── UserContext.jsx

│ ├── pages

│ │ ├── Login.jsx

│ │ └── Register.jsx

│ ├── App.css

│ ├── App.jsx

│ ├── index.css

│ └── main.jsx

├── .gitignore

├── eslint.config.js

├── index.html

├── package.json

├── package-lock.json

├── README.md

└── vite.config.js

## **📦 שלב 3: התקנת ספריות נוספות**

bash

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npm install react-router-dom

## **✍️ שלב 4: כתיבת הקבצים המרכזיים**

### **App.jsx**

jsx

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import './App.css';

import Navbar from './components/Navbar';

import { Routes, Route } from 'react-router-dom';

import Login from './pages/Login';

import Register from './pages/Register';

function App() {

return (

<>

<Navbar />

<Routes>

<Route path="/login" element={<Login />} />

<Route path="/register" element={<Register />} />

</Routes>

</>

);

}

export default App;

### **components/Navbar.jsx**

import { Link } from 'react-router-dom';

import { useUser } from '../contexts/UserContext.jsx';

export default function **Navbar**() {

const { user, isAuthenticated, logout } = useUser();

const **handleLogout** = () => {

logout();

};

return (

<nav *className*="bg-white shadow-lg">

<div *className*="max-w-7xl mx-auto px-4 sm:px-6 lg:px-8">

<div *className*="flex justify-between h-16">

<div *className*="flex items-center">

<Link *to*="/" *className*="flex-shrink-0 flex items-center">

<h1 *className*="text-xl font-bold text-gray-900">

Vacation App

</h1>

</Link>

</div>

<div *className*="flex items-center space-x-4">

<Link

*to*="/"

*className*="text-gray-700 hover:text-gray-900 px-3 py-2 rounded-md text-sm font-medium"

>

Home

</Link>

{isAuthenticated ? (

*// Show when user is logged in*

<>

<span *className*="text-gray-700 px-3 py-2 text-sm">

Welcome, {user?.first\_name} {user?.last\_name}

{user?.role\_id === 1 && (

<span *className*="ml-2 bg-red-100 text-red-800 text-xs font-medium px-2.5 py-0.5 rounded">

Admin

</span>

)}

</span>

<button

*onClick*={handleLogout}

*className*="bg-red-600 hover:bg-red-700 text-white px-4 py-2 rounded-md text-sm font-medium"

>

Logout

</button>

</>

) : (

*// Show when user is not logged in*

<>

<Link

*to*="/login"

*className*="text-gray-700 hover:text-gray-900 px-3 py-2 rounded-md text-sm font-medium"

>

Login

</Link>

<Link

*to*="/register"

*className*="bg-indigo-600 hover:bg-indigo-700 text-white px-4 py-2 rounded-md text-sm font-medium"

>

Register

</Link>

</>

)}

</div>

</div>

</div>

</nav>

);

}

### **pages/Login.jsx**

jsx

CopyEdit

function Login() {

return (

<div>

<h2>Login Page</h2>

</div>

);

}

export default Login;

### **pages/Register.jsx**

jsx

CopyEdit

function Register() {

return (

<div>

<h2>Register Page</h2>

</div>

);

}

export default Register;

### **contexts/UserContext.jsx**

jsx

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import { createContext, useState } from 'react';

export const UserContext = createContext();

export function UserProvider({ children }) {

const [user, setUser] = useState(null);

return (

<UserContext.Provider value={{ user, setUser }}>

{children}

</UserContext.Provider>

);

}