import React, { useState, useRef, useEffect } from 'react';

import { Send, Database } from 'lucide-react';

const KnowledgeBaseChatbot = () => {

const [messages, setMessages] = useState([

{ role: 'assistant', content: 'Hi! Ask me about company policies, HR, or IT support.' }

]);

const [input, setInput] = useState('');

const [loading, setLoading] = useState(false);

const messagesEndRef = useRef(null);

const knowledgeBase = {

'vacation policy': 'Employees get 15 days paid vacation annually. Request 2 weeks in advance.',

'remote work': 'Remote work available 3 days/week with manager approval.',

'password reset': 'Reset at portal.company.com/reset or call IT at ext. 5555.',

'vpn access': 'VPN credentials sent within 24 hours. Use Cisco AnyConnect.',

'health benefits': 'Full-time employees get health insurance and 401k matching up to 5%.',

'security incident': 'Report immediately to security@company.com and your manager.'

};

useEffect(() => {

messagesEndRef.current?.scrollIntoView({ behavior: 'smooth' });

}, [messages]);

const searchKnowledge = (query) => {

const lower = query.toLowerCase();

for (const [key, value] of Object.entries(knowledgeBase)) {

if (lower.includes(key) || key.includes(lower.split(' ')[0])) {

return `${value}\n\n\*Source: Company Knowledge Base (Aurora PostgreSQL)\*`;

}

}

return "I couldn't find that information. Try asking about vacation, remote work, passwords, VPN, benefits, or security.";

};

const handleSend = () => {

if (!input.trim() || loading) return;

setMessages(prev => [...prev, { role: 'user', content: input }]);

setLoading(true);

const query = input;

setInput('');

setTimeout(() => {

const response = searchKnowledge(query);

setMessages(prev => [...prev, { role: 'assistant', content: response }]);

setLoading(false);

}, 800);

};

return (

<div className="flex flex-col h-screen bg-slate-900">

{/\* Header \*/}

<div className="bg-slate-800 border-b border-slate-700 px-6 py-4">

<div className="flex items-center gap-3">

<Database className="w-6 h-6 text-blue-400" />

<div>

<h1 className="text-xl font-bold text-white">Knowledge Base Chatbot</h1>

<p className="text-slate-400 text-sm">AWS Bedrock + Aurora PostgreSQL</p>

</div>

</div>

</div>

{/\* Messages \*/}

<div className="flex-1 overflow-y-auto px-6 py-4 space-y-3">

{messages.map((msg, i) => (

<div key={i} className={`flex ${msg.role === 'user' ? 'justify-end' : 'justify-start'}`}>

<div className={`max-w-lg rounded-lg px-4 py-2 ${

msg.role === 'user' ? 'bg-blue-600 text-white' : 'bg-slate-700 text-white'

}`}>

{msg.content}

</div>

</div>

))}

{loading && (

<div className="flex justify-start">

<div className="bg-slate-700 rounded-lg px-4 py-2 text-slate-300">

Searching knowledge base...

</div>

</div>

)}

<div ref={messagesEndRef} />

</div>

{/\* Input \*/}

<div className="bg-slate-800 border-t border-slate-700 px-6 py-4">

<div className="flex gap-2">

<input

type="text"

value={input}

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

onKeyPress={(e) => e.key === 'Enter' && handleSend()}

placeholder="Ask about vacation, remote work, IT support..."

className="flex-1 bg-slate-700 border border-slate-600 rounded-lg px-4 py-2 text-white placeholder-slate-400 focus:outline-none focus:ring-2 focus:ring-blue-500"

/>

<button

onClick={handleSend}

disabled={loading || !input.trim()}

className="bg-blue-600 hover:bg-blue-700 disabled:bg-slate-700 rounded-lg px-4 py-2 text-white transition-colors"

>

<Send className="w-5 h-5" />

</button>

</div>

</div>

</div>

);

};

export default KnowledgeBaseChatbot;