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'use client';

// Importations des dépendances principales
import React, { useState, useEffect, useRef, useCallback } from "react";
import {
  FaComment,
  FaPaperclip,
  FaTimes,
  FaPaperPlane,
  FaMicrophone,
  FaGlobe
} from "react-icons/fa";
import { toast } from "sonner";
import { CircleUserRound } from "lucide-react";
import { getApiUrl } from "@app/lib/config";
import { v4 as uuidv4 } from "uuid";
import io, { Socket } from 'socket.io-client';

// Interfaces
interface Message {
  id: string;
  content: string;
  sender: "USER" | "RAG";
  timestamp: Date;
}

interface MainSessionProps {
  activeChatId: string | null;
  setActiveChatId: (id: string | null) => void;
  initialMessages: Message[];
  fetchSettings: () => void;
  UserChats: () => void;
}

interface ProfilDropdownProps {
  isProfileOpen: boolean;
  setIsProfileOpen: (value: boolean) => void;
  username: string;
  email: string;
  handleLogout: () => void;
}

// Composant de chargement
const ChatLoading = () => (
  <div className="animate-pulse">
    <div className="w-3 h-3 bg-gray-400 rounded-full inline-block mr-1"></div>
    <div className="w-3 h-3 bg-gray-400 rounded-full inline-block mr-1"></div>
    <div className="w-3 h-3 bg-gray-400 rounded-full inline-block"></div>
  </div>

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);

// Composant ProfilDropdown
const ProfilDropdown = ({
  isProfileOpen,
  setIsProfileOpen,
  username,
  email,
  handleLogout
}: ProfilDropdownProps) => {
  const dropdownRef = useRef<HTMLDivElement>(null);

  useEffect(() => {
    const handleClickOutside = (event: MouseEvent) => {
      if (dropdownRef.current && !dropdownRef.current.contains(event.target as Node)) {
        setIsProfileOpen(false);
      }
    };

    if (isProfileOpen) {
      document.addEventListener("mousedown", handleClickOutside);
    }

    return () => {
      document.removeEventListener("mousedown", handleClickOutside);
    };
  }, [isProfileOpen, setIsProfileOpen]);

  return (
    isProfileOpen && (
      <div
        ref={dropdownRef}
        className="absolute right-0 mt-2 w-64 bg-white rounded-md shadow-lg z-50 border border-gray-200"
      >
        <div className="p-4 border-b border-gray-200">
          <h3 className="font-medium text-gray-900">Mon Profil</h3>
        </div>
        <div className="p-4">
          <div className="mb-3">
            <p className="text-sm text-gray-500">Nom d'utilisateur</p>
            <p className="font-medium">{username} || "Changement..."</p>
          </div>
          <div className="mb-4">
            <p className="text-sm text-gray-500">Email</p>
            <p className="font-medium">{email} || "Changement..."</p>
          </div>
          <button

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        onClick={handleLogout}
        className="w-full py-2 px-4 bg-red-600 text-white rounded-md
hover:bg-red-700 transition-colors"
      >
        Déconnexion
      </button>
    </div>
  </div>
)
);
};

// Composant principal MainSession
const MainSession = ({
  activeChatId,
  setActiveChatId,
  initialMessages,
  fetchUserChats,
}: MainSessionProps) => {
  const [messages, setMessages] = useState<Message[]>(initialMessages);
  const [inputValue, setInputValue] = useState("");
  const [isAiTyping, setIsAiTyping] = useState(false);
  const [isRecording, setIsRecording] = useState(false);
  const [isProfileOpen, setIsProfileOpen] = useState(false);

  const [username, setUsername] = useState("");
  const [email, setEmail] = useState("");
  const socketRef = useRef<Socket | null>(null);

  const companyId = "cmbjjpZR20002m0018cd10zn3";

  const messagesEndRef = useRef<HTMLDivElement>(null);
  const inputRef = useRef<HTMLTextAreaElement>(null);

  const scrollToBottom = useCallback(() => {
    messagesEndRef.current?.scrollIntoView({ behavior: "smooth" });
  }, []);

  useEffect(() => {
    console.log('[DEBUG] État messages mis à jour :', messages);
    scrollToBottom();
  }, [messages, isAiTyping, scrollToBottom]);

  const fetchUser = async () => {
    const token = localStorage.getItem("accessToken");
    const userId = localStorage.getItem("user");

    if (!token || !userId) {
      console.error("Vous devez être connecté pour effectuer cette action.");
    }
  };

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    return;
  }

  try {
    const response = await fetch(
      `${getApiUrl(`/user/connected/${userId}`)}`,
      {
        method: "GET",
        headers: {
          Authorization: `Bearer ${token}`,
        },
      }
    );

    if (!response.ok) throw new Error("Erreur lors de la récupération de l'utilisateur");

    const user = await response.json();
    setUsername(user.username);
    setEmail(user.email);
  } catch (error) {
    console.error("Erreur lors de la récupération :", error);
    toast.error("Erreur lors de la récupération");
  }
};

useEffect(() => {
  fetchUser();
}, []);

// Initialisation du WebSocket
useEffect(() => {
  const token = localStorage.getItem("accessToken");
  socketRef.current = io(getApiUrl(''), {
    auth: { token: `Bearer ${token}` },
  });

  socketRef.current.on('connect', () => {
    console.log('[DEBUG] Connecté au WebSocket:', socketRef.current?.id);
    if (activeChatId) {
      socketRef.current?.emit('joinChat', activeChatId);
      console.log('[DEBUG] Rejoint le chat:', activeChatId);
    }
  });

  socketRef.current.on('messageUpdate', (message: Message) => {
    console.log('[DEBUG] Message WebSocket reçu:', message);
    setMessages((prev) => {
      const updated = [...prev];

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    const index = updated.findIndex((m) => m.id === message.id);
    if (index !== -1) {
      updated[index] = {
        id: message.id,
        content: message.content,
        sender: message.sender,
        timestamp: new Date(message.createdAt || Date.now()),
      };
    } else {
      updated.push({
        id: message.id,
        content: message.content,
        sender: message.sender,
        timestamp: new Date(message.createdAt || Date.now()),
      });
    }
    return updated;
  });
  setIsAiTyping(message.sender === 'RAG' && message.content === '');
});

socketRef.current.on('disconnect', () => {
  console.log('[DEBUG] Déconnecté du WebSocket');
});

socketRef.current.on('connect_error', (error) => {
  console.error('[ERREUR] Erreur de connexion WebSocket:', error);
  toast.error("Erreur de connexion au WebSocket");
});

return () => {
  socketRef.current?.disconnect();
};
}, [activeChatId]);

const handleLogout = () => {
  localStorage.removeItem("accessToken");
  localStorage.removeItem("isAdmin");
  localStorage.removeItem("user");
  window.location.href = "/pages/authentication/login";
};

const sendMessageToBackend = async (messageContent: string) => {
  console.log('[DEBUG] Début de sendMessageToBackend - Message:',
messageContent);

  const userId = localStorage.getItem("user");
  const token = localStorage.getItem("accessToken");
  if (!userId || !token) {

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        console.error('[ERREUR] Identifiants manquants dans le localStorage');
        toast.error("Session expirée, veuillez vous reconnecter");
        handleLogout();
        return null;
    }

    const body = JSON.stringify({
        userId,
        question: messageContent,
        companyId,
    });

    console.log('[DEBUG] Configuration requête:', { url: '/chats', method:
"POST", body: JSON.parse(body) });

    try {
        const response = await fetch(getApiUrl('/chats'), {
            method: "POST",
            headers: {
                Authorization: `Bearer ${token}`,
                "Content-Type": "application/json",
            },
            body,
        });

        if (!response.ok) {
            const errorText = await response.text();
            console.error('[ERREUR] Requête échouée:', response.status,
errorText);
            throw new Error(`Erreur HTTP: ${response.status} - ${errorText}`);
        }

        const responseData = await response.json();
        console.log('[DEBUG] Réponse finale:', responseData);

        if (responseData.chatResponse?.id) {
            console.log('[DEBUG] Nouveau chat créé, ID:',
responseData.chatResponse.id);
            setActiveChatId(responseData.chatResponse.id);
            socketRef.current?.emit('joinChat', responseData.chatResponse.id);
            console.log('[DEBUG] Rejoint le chat via WebSocket:',
responseData.chatResponse.id);
        }

        fetchUserChats();
        return responseData.chatResponse;
    } catch (error) {
        console.error('[ERREUR] sendMessageToBackend:', error);
    }

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        toast.error(
            error instanceof Error ? error.message : "Erreur lors de l'envoi du message"
        );
        return null;
    }
};

const fetchChatMessages = async (chatId: string) => {
    const token = localStorage.getItem("accessToken");
    const userId = localStorage.getItem("user");

    if (!token || !userId) {
        console.error("Vous devez être connecté pour effectuer cette action.");
        return;
    }

    try {
        const response = await fetch(`${getApiUrl(`/chats/${chatId}`)}`, {
            method: "GET",
            headers: {
                Authorization: `Bearer ${token}`,
            },
        });

        if (!response.ok) {
            const errorText = await response.text();
            console.error('[ERREUR] fetchChatMessages échoué:', response.status, errorText);
            throw new Error("Erreur lors de la récupération des messages");
        }

        const chat = await response.json();
        console.log('[DEBUG] Chat récupéré via fetchChatMessages:', chat);
        setMessages(chat.messages.map((msg: any) => ({
            id: msg.id,
            content: msg.content,
            sender: msg.sender,
            timestamp: new Date(msg.createdAt),
        })));
    } catch (error) {
        console.error("Erreur lors de la récupération des messages :", error);
        toast.error("Erreur lors de la récupération des messages");
    }
};

useEffect(() => {
    console.log('[DEBUG] activeChatId changé:', activeChatId);
    if (activeChatId) {

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    fetchChatMessages(activeChatId);
    socketRef.current?.emit('joinChat', activeChatId);
    console.log('[DEBUG] Rejoint le chat:', activeChatId);
  } else {
    setMessages([]);
  }
}, [activeChatId]);

const handleSendMessage = async () => {
  if (!inputValue.trim()) return;

  const tempId = uuidv4();
  const userMessage: Message = {
    id: tempId,
    content: inputValue.trim(),
    sender: "USER",
    timestamp: new Date(),
  };

  console.log('[DEBUG] Ajout message utilisateur :', userMessage);
  setMessages((prev) => [...prev, userMessage]);
  setInputValue("");
  setIsAiTyping(true);

  try {
    await sendMessageToBackend(inputValue.trim());
  } catch (error) {
    console.error('[ERREUR] handleSendMessage :', error);
    toast.error("Erreur de communication avec le serveur");
  }
};

const handleKeyDown = (e: React.KeyboardEvent) => {
  if (e.key === "Enter" && !e.shiftKey) {
    e.preventDefault();
    handleSendMessage();
  }
};

const toggleRecording = () => {
  if (isRecording) {
    setIsRecording(false);
    setInputValue((prev) => prev + " [Message vocal transcrit]");
  } else {
    setIsRecording(true);
  }
};

return (

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<div className="flex flex-col h-screen bg-white">
  <div className="p-4 border-b border-gray-200 flex items-center justify-between">
    <h1 className="righteous text-xl font-semibold text-gray-800">
      Perfect Research
    </h1>

    <div className="relative">
      <button
        onClick={() => setIsProfileOpen(!isProfileOpen)}
        className="p-2 rounded-full hover:bg-gray-100"
      >
        <CircleUserRound className="text-gray-700" size={25} />
      </button>

      <ProfilDropdown
        isProfileOpen={isProfileOpen}
        setIsProfileOpen={setIsProfileOpen}
        username={username}
        email={email}
        handleLogout={handleLogout}
      />
    </div>
  </div>

  <div className="flex-1 overflow-y-auto p-4 md:px-6">
    {messages.length === 0 ? (
      <div className="h-full flex flex-col items-center justify-center">
        <div className="max-w-md text-center space-y-4">
          <div className="mb-4">
            <div className="w-16 h-16 mx-auto bg-blue-100 rounded-full flex items-center justify-center">
              <FaComment size={28} className="text-blue-500" />
            </div>
          </div>
          <h2 className="righteous text-2xl font-bold text-gray-800">
            Salut, je suis Perfect Chat
          </h2>
          <p className="text-gray-600">
            Comment puis-je vous aider aujourd'hui ? <br />
            Posez-moi une question sur votre recherche ou mémoire.
          </p>
        </div>
      </div>
    ) : (
      <div className="space-y-6 pt-4 pb-20">
        {messages.map((message) => {
          console.log('[DEBUG] Rendu message :', message);
          return (

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        <div
          key={message.id}
          className={`flex ${
            message.sender === "USER" ? "justify-end" : "justify-
start"
          }}
        >
        <div
          className={`max-w-[70%] rounded-2xl px-4 py-3 ${
            message.sender === "USER"
              ? "bg-blue-400 text-white"
              : "bg-gray-200 text-gray-800"
          }}
        >
        <p className="whitespace-pre-wrap">{message.content}</p>
        <div className="text-xs mt-1 opacity-70 text-right">
          {new Date(message.timestamp).toLocaleTimeString([], {
            hour: "2-digit",
            minute: "2-digit",
          })}
        </div>
        </div>
      </div>
    );
  }

  {isAiTyping && (
    <div className="flex justify-start">
      <div className="bg-gray-200 text-gray-800 rounded-2xl px-4 py-
3 max-w-[200px]">
        <div className="flex items-center space-x-2">
          <ChatLoading />
        </div>
      </div>
    </div>
  )}

  <div ref={messagesEndRef} />
</div>
)}

<div className="p-4 border-t border-gray-200 bg-white">
  <div className="max-w-3xl mx-auto">
    <div className="relative bg-gray-100 rounded-xl border border-gray-
300 shadow-sm p-2">
      <textarea
        ref={inputRef}
        value={inputValue}

```



```
export default MainSession;
```