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import React, { useState, useEffect, useRef } from 'react';
import { initializeApp } from 'firebase/app';
import {
  getAuth,
  signInAnonymously,
  onAuthStateChanged,
  signInOut,
  updateProfile
} from 'firebase/auth';
import {
  getFirestore,
  collection,
  addDoc,
  onSnapshot,
  doc,
  setDoc,
  getDoc,
  serverTimestamp
} from 'firebase/firestore';
import {
  Camera,
  Home,
  User,
  PlusSquare,
  Heart,
  MessageCircle,
  Send,
  Logout,
  Image as ImageIcon,
  ArrowLeft,
  Loader2
} from 'lucide-react';

// --- Firebase Configuration ---
const firebaseConfig = JSON.parse(__firebase_config);
const app = initializeApp(firebaseConfig);
const auth = getAuth(app);
const db = getFirestore(app);
const appId = typeof __app_id !== 'undefined' ? __app_id : 'default-app-id';

// --- Helper: Image Compression ---
const compressImage = (file) => {
  return new Promise((resolve) => {
    const reader = new FileReader();
    reader.readAsDataURL(file);
    reader.onload = (event) => {
      const img = new Image();
      img.src = event.target.result;
      img.onload = () => {
        const canvas = document.createElement('canvas');

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const MAX_WIDTH = 600;
const scaleSize = MAX_WIDTH / img.width;
canvas.width = MAX_WIDTH;
canvas.height = img.height * scaleSize;

const ctx = canvas.getContext('2d');
ctx.drawImage(img, 0, 0, canvas.width, canvas.height);

resolve(canvas.toDataURL('image/jpeg', 0.6));
  };
};
});
};

// --- Components ---

function LoginScreen({ onLogin }) {
  const [mobile, setMobile] = useState("");
  const [otp, setOtp] = useState("");
  const [step, setStep] = useState(1);
  const [loading, setLoading] = useState(false);

  const handleSendOtp = () => {
    if (mobile.length < 10) return alert("Please enter valid mobile number");
    setLoading(true);
    // Simulate API delay
    setTimeout(() => {
      setStep(2);
      setLoading(false);
    }, 1000);
  };

  const handleVerifyOtp = () => {
    if (otp.length !== 4) return alert("Enter 4 digit OTP (Any 4 digits for demo)");
    setLoading(true);
    signInAnonymously(auth).catch((error) => {
      console.error(error);
      setLoading(false);
    });
  };

  return (
    <div className="flex flex-col items-center justify-center h-screen bg-white p-6">
      <h1 className="text-4xl font-cursive mb-8 text-pink-600" style={{fontFamily:
'cursive'}}>Hey Chat</h1>

      <div className="w-full max-w-sm">
        {step === 1 ? (
          ◇
          <label className="block text-gray-700 text-sm font-bold mb-2">Mobile

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Number</label>
    <input
      type="tel"
      value={mobile}
      onChange={(e) => setMobile(e.target.value)}
      placeholder="+91 98765 43210"
      className="w-full border border-gray-300 rounded-lg px-4 py-3 mb-4
focus:outline-none focus:border-pink-500"
    />
    <button
      onClick={handleSendOtp}
      disabled={loading}
      className="w-full bg-blue-500 text-white font-bold py-3 rounded-lg
hover:bg-blue-600 transition flex justify-center items-center"
    >
      {loading ? <Loader2 className="animate-spin" /> : "Send OTP"}
    </button>
  </>
) : (
  <div>
    <label className="block text-gray-700 text-sm font-bold mb-2">Enter OTP</
label>
    <input
      type="text"
      value={otp}
      onChange={(e) => setOtp(e.target.value)}
      placeholder="1234"
      maxLength={4}
      className="w-full border border-gray-300 rounded-lg px-4 py-3 mb-4
focus:outline-none focus:border-pink-500 text-center tracking-widest text-xl"
    />
    <button
      onClick={handleVerifyOtp}
      disabled={loading}
      className="w-full bg-blue-500 text-white font-bold py-3 rounded-lg
hover:bg-blue-600 transition flex justify-center items-center"
    >
      {loading ? <Loader2 className="animate-spin" /> : "Verify & Login"}
    </button>
    <button
      onClick={() => setStep(1)}
      className="w-full mt-4 text-sm text-gray-500 hover:text-gray-700"
    >
      Change Number
    </button>
  </div>
)}
</div>
<div className="mt-8 text-xs text-gray-400">
  By logging in, you agree to our Terms.

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    </div>
  </div>
);
}

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function ProfileSetup({ user, onComplete }) {
  const [username, setUsername] = useState("");
  const [loading, setLoading] = useState(false);

  const handleSave = async () => {
    if (!username.trim()) return;
    setLoading(true);

    try {
      const userRef = doc(db, 'artifacts', appld, 'users', user.uid, 'profile', 'info');
      await setDoc(userRef, {
        username: username.toLowerCase().replace(/s/g, '_'),
        uid: user.uid,
        joinedAt: serverTimestamp()
      });
      onComplete();
    } catch (error) {
      console.error("Error saving profile:", error);
      setLoading(false);
    }
  };

  return (
    <div className="flex flex-col items-center justify-center h-screen bg-white p-6">
      <h2 className="text-2xl font-bold mb-2">Create Username</h2>
      <p className="text-gray-500 mb-6 text-center">Pick a username for your new
account.</p>

      <div className="w-full max-w-sm">
        <div className="relative">
          <span className="absolute left-4 top-3 text-gray-400">@</span>
          <input
            type="text"
            value={username}
            onChange={(e) => setUsername(e.target.value)}
            placeholder="username"
            className="w-full border border-gray-300 rounded-lg pl-8 pr-4 py-3 mb-4
focus:outline-none focus:border-pink-500 lowercase"
          />
        </div>
        <button
          onClick={handleSave}
          disabled={loading || !username}
          className="w-full bg-blue-500 text-white font-bold py-3 rounded-lg
disabled:opacity-50"

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    >
    {loading ? "Saving..." : "Next"}
  </button>
</div>
</div>
);
}

function PostCard({ post }) {
  const [liked, setLiked] = useState(false);

  return (
    <div className="bg-white mb-4 border-b border-gray-100 pb-2">
      {/* Header */}
      <div className="flex items-center p-3">
        <div className="w-8 h-8 rounded-full bg-gradient-to-tr from-yellow-400 to-pink-600 p-[2px]">
          <div className="w-full h-full rounded-full bg-white flex items-center justify-center">
            <User size={16} className="text-gray-400" />
          </div>
        </div>
        <span className="ml-3 font-semibold text-sm">{post.username || 'user'}</span>
      </div>

      {/* Image */}
      <div className="w-full aspect-square bg-gray-100 overflow-hidden">
        <img src={post.imageUrl} alt="Post" className="w-full h-full object-cover" />
      </div>

      {/* Actions */}
      <div className="flex items-center px-3 py-2 space-x-4">
        <button onClick={() => setLiked(!liked)}>
          <Heart size={24} className={liked ? "fill-red-500 text-red-500" : "text-gray-700"} />
        </button>
        <MessageCircle size={24} className="text-gray-700" />
        <Send size={24} className="text-gray-700" />
      </div>

      {/* Caption */}
      <div className="px-3 pb-2">
        <p className="text-sm">
          <span className="font-semibold mr-2">{post.username}</span>
          {post.caption}
        </p>
        <p className="text-xs text-gray-400 mt-1 uppercase">
          {post.timestamp?.seconds ? new Date(post.timestamp.seconds * 1000).toLocaleDateString() : 'Just now'}
        </p>
      </div>
    </div>
  );
}

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    </p>
  </div>
</div>
);
}

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function UploadModal({ user, userProfile, onClose }) {
  const [image, setImage] = useState(null);
  const [caption, setCaption] = useState("");
  const [loading, setLoading] = useState(false);
  const fileInputRef = useRef(null);

  const handleFileChange = async (e) => {
    if (e.target.files[0]) {
      const compressed = await compressImage(e.target.files[0]);
      setImage(compressed);
    }
  };

  const handlePost = async () => {
    if (!image) return;
    setLoading(true);

    try {
      const postsRef = collection(db, 'artifacts', appId, 'public', 'data', 'posts');
      await addDoc(postsRef, {
        imageUrl: image,
        caption: caption,
        userId: user.uid,
        username: userProfile?.username || 'user',
        likes: 0,
        timestamp: serverTimestamp()
      });
      setLoading(false);
      onClose();
    } catch (error) {
      console.error("Error adding post: ", error);
      setLoading(false);
      alert("Failed to upload. Try a smaller image.");
    }
  };

  return (
    <div className="fixed inset-0 bg-white z-50 flex flex-col">
      <div className="flex items-center justify-between p-4 border-b">
        <button onClick={onClose}><ArrowLeft size={24} /></button>
        <h2 className="font-semibold text-lg">New Post</h2>
        <button
          onClick={handlePost}
          disabled={!image || loading}

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        className="text-blue-500 font-semibold disabled:opacity-50"
      >
        {loading ? "Sharing..." : "Share"}
      </button>
    </div>

    <div className="flex-1 overflow-y-auto p-4">
      {!image ? (
        <div
          onClick={() => fileInputRef.current.click()}
          className="w-full aspect-square bg-gray-100 rounded-lg flex flex-col items-
center justify-center cursor-pointer border-2 border-dashed border-gray-300
hover:bg-gray-50"
        >
          <ImageIcon size={48} className="text-gray-400 mb-2" />
          <span className="text-gray-500 font-medium">Select Photo</span>
          <input
            type="file"
            accept="image/*"
            ref={fileInputRef}
            className="hidden"
            onChange={handleFileChange}
          />
        </div>
      ) : (
        <div className="flex flex-col space-y-4">
          <div className="w-full aspect-square rounded-lg overflow-hidden shadow-
sm">
            <img src={image} alt="Preview" className="w-full h-full object-cover" />
          </div>
          <button
            onClick={() => setImage(null)}
            className="text-red-500 text-sm font-medium self-start"
          >
            Remove photo
          </button>
          <textarea
            placeholder="Write a caption..."
            value={caption}
            onChange={(e) => setCaption(e.target.value)}
            className="w-full p-3 border rounded-lg focus:outline-none focus:border-
gray-400 resize-none h-24"
          />
        </div>
      )}
    </div>
  </div>
);
}

```

// --- Main App Component ---

```
export default function HeyChatApp() {
  const [user, setUser] = useState(null);
  const [userProfile, setUserProfile] = useState(null);
  const [loading, setLoading] = useState(true);
  const [posts, setPosts] = useState([]);
  const [currentTab, setCurrentTab] = useState('home'); // home, profile
  const [showUpload, setShowUpload] = useState(false);

  // 1. Auth Listener
  useEffect(() => {
    const unsubscribe = onAuthStateChanged(auth, (currentUser) => {
      setUser(currentUser);
      if (!currentUser) setLoading(false);
    });
    return () => unsubscribe();
  }, []);

  // 2. Fetch User Profile
  useEffect(() => {
    if (!user) {
      setUserProfile(null);
      return;
    }

    // Check if profile exists
    const userRef = doc(db, 'artifacts', appId, 'users', user.uid, 'profile', 'info');
    const unsubProfile = onSnapshot(userRef, (docSnap) => {
      if (docSnap.exists()) {
        setUserProfile(docSnap.data());
      } else {
        setUserProfile(null); // Triggers profile setup screen
      }
      setLoading(false);
    });

    return () => unsubProfile();
  }, [user]);

  // 3. Fetch Feed Posts
  useEffect(() => {
    if (!user) return;

    const postsRef = collection(db, 'artifacts', appId, 'public', 'data', 'posts');
    const unsubPosts = onSnapshot(postsRef, (snapshot) => {
      const postData = snapshot.docs.map(doc => ({
        id: doc.id,
        ...doc.data()
      }));
    });
  });
}
```



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// Sort client-side because of restriction on complex queries
postsData.sort((a, b) => {
  const timeA = a.timestamp?.seconds || 0;
  const timeB = b.timestamp?.seconds || 0;
  return timeB - timeA;
});
setPosts(postsData);
});

return () => unsubPosts();
}, [user]);

if (loading) {
  return (
    <div className="flex items-center justify-center h-screen bg-white">
      <div className="text-center">
        
        <Loader2 className="animate-spin text-gray-400 mx-auto" />
      </div>
    </div>
  );
}

// Not Logged In
if (!user) {
  return <LoginScreen />;
}

// Profile not set
if (!userProfile) {
  return <ProfileSetup user={user} onComplete={() => {}} />;
}

// Upload Screen Overlay
if (showUpload) {
  return <UploadModal user={user} userProfile={userProfile} onClose={() => setShowUpload(false)} />;
}

// Main App Interface
return (
  <div className="max-w-md mx-auto bg-white h-screen flex flex-col shadow-2xl relative">
    {/* Top Navbar */}
    <div className="px-4 py-3 flex items-center justify-between border-b bg-white sticky top-0 z-10">
      <h1 className="text-2xl font-cursive font-bold select-none cursor-pointer" style={{fontFamily: 'cursive'}}>Hey Chat</h1>

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    <div className="flex space-x-4">
      <Heart size={24} className="text-gray-800" />
      <MessageCircle size={24} className="text-gray-800" />
    </div>
  </div>

  {/* Main Content Area */}
  <div className="flex-1 overflow-y-auto bg-white">
    {currentTab === 'home' && (
      <div className="pb-16">
        {/* Stories (Mock) */}
        <div className="flex space-x-4 p-4 overflow-x-auto border-b hide-
scrollbar">
          {[ 'Your Story', 'rohit', 'priya', 'amit', 'sara' ].map((name, i) => (
            <div key={i} className="flex flex-col items-center flex-shrink-0 space-
y-1">
              <div className={`w-16 h-16 rounded-full p-[2px] ${i === 0 ? 'bg-
gray-200' : 'bg-gradient-to-tr from-yellow-400 to-pink-600'}`}>
                <div className="w-full h-full bg-white rounded-full flex items-center
justify-center overflow-hidden">
                  <User size={24} className="text-gray-300" />
                </div>
              </div>
              <span className="text-xs truncate w-16 text-center">{name}</span>
            </div>
          ))}
        </div>

        {/* Posts Feed */}
        {posts.length === 0 ? (
          <div className="text-center py-20 text-gray-400">
            <Camera size={48} className="mx-auto mb-4 opacity-50" />
            <p>No posts yet.</p>
            <p className="text-sm">Be the first to upload!</p>
          </div>
        ) : (
          posts.map(post => <PostCard key={post.id} post={post} />)
        )}
      </div>
    )}

    {currentTab === 'profile' && (
      <div className="p-4">
        <div className="flex items-center justify-between mb-8">
          <h2 className="font-bold text-xl">{userProfile.username}</h2>
          <button onClick={() => signOut(auth)}><Logout size={20}
className="text-red-500" /></button>
        </div>

        <div className="flex items-center mb-8">

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        <div className="w-20 h-20 bg-gray-200 rounded-full flex items-center
justify-center mr-8">
            <User size={40} className="text-gray-400" />
        </div>
        <div className="flex space-x-8 text-center">
            <div>
                <div className="font-bold text-lg">{posts.filter(p => p.userId ===
user.userId).length}</div>
                <div className="text-sm text-gray-500">Posts</div>
            </div>
            <div>
                <div className="font-bold text-lg">124</div>
                <div className="text-sm text-gray-500">Followers</div>
            </div>
            <div>
                <div className="font-bold text-lg">365</div>
                <div className="text-sm text-gray-500">Following</div>
            </div>
        </div>
    </div>

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        <div className="border-t pt-4 grid grid-cols-3 gap-1">
            {posts.filter(p => p.userId === user.userId).map(post => (
                <div key={post.id} className="aspect-square bg-gray-100 overflow-
hidden">
                    <img src={post.imageUrl} className="w-full h-full object-cover" />
                </div>
            ))}
        </div>
    </div>
    </div>
    </div>

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    { /* Bottom Navigation */ }
    <div className="h-14 bg-white border-t flex items-center justify-around fixed
bottom-0 w-full max-w-md pb-safe">
        <button onClick={() => setCurrentTab('home')} className={currentTab ===
'home' ? 'text-black' : 'text-gray-400'}>
            <Home size={28} strokeWidth={currentTab === 'home' ? 2.5 : 2} />
        </button>

        <button onClick={() => setShowUpload(true)} className="text-black">
            <PlusSquare size={28} />
        </button>

        <button onClick={() => setCurrentTab('profile')} className={currentTab ===
'profile' ? 'text-black' : 'text-gray-400'}>
            <div className={`w-7 h-7 rounded-full border border-gray-300 flex items-
center justify-center overflow-hidden ${currentTab === 'profile' ? 'ring-1 ring-black' : ''}
`}>

```

```
        <User size={16} />
      </div>
    </button>
  </div>
</div>
);
}
```