

// firebase.js - Firebase Configuration

```
import { initializeApp } from 'firebase/app';

import { getFirestore } from 'firebase/firestore';

import { getAuth } from 'firebase/auth';

import { getStorage } from 'firebase/storage';

const firebaseConfig = {

  // Replace with your Firebase config

  apiKey: "your-api-key",

  authDomain: "your-project.firebaseio.com",

  projectId: "your-project-id",

  storageBucket: "your-project.appspot.com",

  messagingSenderId: "123456789",

  appId: "your-app-id"

};
```

```
const app = initializeApp(firebaseConfig);

export const db = getFirestore(app);

export const auth = getAuth(app);

export const storage = getStorage(app);
```

// firebaseService.js - Database Operations

```
import {

  collection,

  addDoc,

  getDocs,

  doc,

  updateDoc,

  deleteDoc,

  query,

  orderBy

} from 'firebase/firestore';

import { db } from './firebase';

export const FirebaseService = {

  // Portfolio Projects

  async addProject(projectData) {

    try {

      const docRef = await addDoc(collection(db, 'projects'), {

        ...projectData,

        createdAt: new Date()

      });

      return docRef.id;

    } catch (error) {

      console.error('Error adding project:', error);

      throw error;

    }

  }

};
```

```
},

async getProjects() {

  try {

    const q = query(collection(db, 'projects'), orderBy('createdAt', 'desc'));

    const querySnapshot = await getDocs(q);

    return querySnapshot.docs.map(doc => ({

      id: doc.id,

      ...doc.data()

    }));

  } catch (error) {

    console.error('Error fetching projects:', error);

    throw error;

  }

},

async updateProject(projectId, updatedData) {

  try {

    const projectRef = doc(db, 'projects', projectId);

    await updateDoc(projectRef, {

      ...updatedData,

      updatedAt: new Date()

    });

  } catch (error) {

    console.error('Error updating project:', error);

    throw error;

  }

},

async deleteProject(projectId) {

  try {

    await deleteDoc(doc(db, 'projects', projectId));

  } catch (error) {

    console.error('Error deleting project:', error);

    throw error;

  }

},

// Testimonials

async addTestimonial(testimonialData) {

  try {

    const docRef = await addDoc(collection(db, 'testimonials'), {

      ...testimonialData,

      createdAt: new Date()

    });

    return docRef.id;

  } catch (error) {

    console.error('Error adding testimonial:', error);
```

```
        throw error;
    }
},

async getTestimonials() {

    try {

        const q = query(collection(db, 'testimonials'), orderBy('createdAt', 'desc'));

        const querySnapshot = await getDocs(q);

        return querySnapshot.docs.map(doc => ({

            id: doc.id,

            ...doc.data()

        }));

    } catch (error) {

        console.error('Error fetching testimonials:', error);

        throw error;

    }

},

async updateTestimonial(testimonialId, updatedData) {

    try {

        const testimonialRef = doc(db, 'testimonials', testimonialId);

        await updateDoc(testimonialRef, {

            ...updatedData,

            updatedAt: new Date()

        });

    } catch (error) {

        console.error('Error updating testimonial:', error);

        throw error;

    }

},

async deleteTestimonial(testimonialId) {

    try {

        await deleteDoc(doc(db, 'testimonials', testimonialId));

    } catch (error) {

        console.error('Error deleting testimonial:', error);

        throw error;

    }

},

// Contact Form Submissions

async addContactSubmission(contactData) {

    try {

        const docRef = await addDoc(collection(db, 'contacts'), {

            ...contactData,

            createdAt: new Date(),

            status: 'unread'

        });

    }
```

```
        return docRef.id;
    } catch (error) {

        console.error('Error adding contact submission:', error);

        throw error;
    }
},

async getContactSubmissions() {

    try {

        const q = query(collection(db, 'contacts'), orderBy('createdAt', 'desc'));

        const querySnapshot = await getDocs(q);

        return querySnapshot.docs.map(doc => ({

            id: doc.id,

            ...doc.data()

        }));

    } catch (error) {

        console.error('Error fetching contact submissions:', error);

        throw error;
    }

},

async updateContactStatus(contactId, status) {

    try {

        const contactRef = doc(db, 'contacts', contactId);

        await updateDoc(contactRef, {

            status,

            updatedAt: new Date()

        });

    } catch (error) {

        console.error('Error updating contact status:', error);

        throw error;
    }

}

};
```

// authService.js - Authentication Service

```
import { signInWithEmailAndPassword, signOut, onAuthStateChanged } from 'firebase/auth';

import { auth } from './firebase';

export const AuthService = {

    async signIn(email, password) {

        try {

            const userCredential = await signInWithEmailAndPassword(auth, email, password);

            return userCredential.user;

        } catch (error) {

            console.error('Sign in error:', error);

            throw error;
        }

    }

};
```

```
    },
    async signOut() {
      try {
        await signOut(auth);
      } catch (error) {
        console.error('Sign out error:', error);
        throw error;
      }
    },
    onAuthStateChanged(callback) {
      return onAuthStateChanged(auth, callback);
    }
  }
};

// AdminPanel.jsx - Admin Dashboard Component

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

import { FirebaseService } from '../firebaseService';

import { AuthService } from '../authService';

import { Plus, Edit, Trash2, Eye, LogOut, Upload } from 'lucide-react';

const AdminPanel = () => {

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

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

  const [activeTab, setActiveTab] = useState('projects');

  const [projects, setProjects] = useState([]);

  const [testimonials, setTestimonials] = useState([]);

  const [contacts, setContacts] = useState([]);

  const [showModal, setShowModal] = useState(false);

  const [editingItem, setEditingItem] = useState(null);

  // Login form state

  const [loginData, setLoginData] = useState({ email: "", password: "" });

  // Project form state

  const [projectForm, setProjectForm] = useState({

    title: "",

    description: "",

    image: "",

    category: "",

    link: ""

  });

  // Testimonial form state

  const [testimonialForm, setTestimonialForm] = useState({

    name: "",

    company: "",

    text: "",

    rating: 5
```

```
});

useEffect(() => {

  const unsubscribe = AuthService.onAuthStateChanged((user) => {

    setUser(user);

    setLoading(false);

  });

  return () => unsubscribe();

}, []);

useEffect(() => {

  if (user) {

    loadData();

  }

}, [user, activeTab]);

const loadData = async () => {

  try {

    if (activeTab === 'projects') {

      const projectsData = await FirebaseService.getProjects();

      setProjects(projectsData);

    } else if (activeTab === 'testimonials') {

      const testimonialsData = await FirebaseService.getTestimonials();

      setTestimonials(testimonialsData);

    } else if (activeTab === 'contacts') {

      const contactsData = await FirebaseService.getContactSubmissions();

      setContacts(contactsData);

    }

  } catch (error) {

    console.error('Error loading data:', error);

  }

};

const handleLogin = async (e) => {

  e.preventDefault();

  try {

    await AuthService.signIn(loginData.email, loginData.password);

  } catch (error) {

    alert('Login failed: ' + error.message);

  }

};

const handleLogout = async () => {

  try {

    await AuthService.signOut();

  } catch (error) {

    console.error('Logout error:', error);

  }

};

};
```

```
const handleSaveProject = async (e) => {

  e.preventDefault();

  try {

    if (editingItem) {

      await FirebaseService.updateProject(editingItem.id, projectForm);

    } else {

      await FirebaseService.addProject(projectForm);

    }

    setShowModal(false);

    setEditingItem(null);

    setProjectForm({ title: "", description: "", image: "", category: "", link: "" });

    loadData();

  } catch (error) {

    alert('Error saving project: ' + error.message);

  }

};

const handleSaveTestimonial = async (e) => {

  e.preventDefault();

  try {

    if (editingItem) {

      await FirebaseService.updateTestimonial(editingItem.id, testimonialForm);

    } else {

      await FirebaseService.addTestimonial(testimonialForm);

    }

    setShowModal(false);

    setEditingItem(null);

    setTestimonialForm({ name: "", company: "", text: "", rating: 5 });

    loadData();

  } catch (error) {

    alert('Error saving testimonial: ' + error.message);

  }

};

const handleDelete = async (type, id) => {

  if (window.confirm('Are you sure you want to delete this item?')) {

    try {

      if (type === 'project') {

        await FirebaseService.deleteProject(id);

      } else if (type === 'testimonial') {

        await FirebaseService.deleteTestimonial(id);

      }

      loadData();

    } catch (error) {

      alert('Error deleting item: ' + error.message);

    }

  }

}
```

```
    }

};

const handleContactStatusUpdate = async (contactId, status) => {

  try {

    await FirebaseService.updateContactStatus(contactId, status);

    loadData();

  } catch (error) {

    alert('Error updating contact status: ' + error.message);

  }

};

if (loading) {

  return <div className="min-h-screen flex items-center justify-center">

    <div className="text-xl">Loading...</div>

  </div>;

}

if (!user) {

  return (

    <div className="min-h-screen bg-gray-100 flex items-center justify-center">

      <div className="bg-white p-8 rounded-2xl shadow-lg w-full max-w-md">

        <h1 className="text-2xl font-bold text-center mb-6">Admin Login</h1>

        <form onSubmit={handleLogin} className="space-y-4">

          <input

            type="email"

            placeholder="Email"

            value={loginData.email}

            onChange={(e) => setLoginData({...loginData, email: e.target.value})}

            className="w-full p-3 border rounded-lg focus:ring-2 focus:ring-blue-500"

            required

          />

          <input

            type="password"

            placeholder="Password"

            value={loginData.password}

            onChange={(e) => setLoginData({...loginData, password: e.target.value})}

            className="w-full p-3 border rounded-lg focus:ring-2 focus:ring-blue-500"

            required

          />

          <button

            type="submit"

            className="w-full bg-blue-600 text-white p-3 rounded-lg hover:bg-blue-700 transition-colors"

          >

            Sign In

          </button>

        </form>

      </div>

    </div>

  );

}
```



```

    </div>

</div>

);
}

return (

<div className="min-h-screen bg-gray-100">

  <nav className="bg-white shadow-sm p-4">

    <div className="max-w-7xl mx-auto flex justify-between items-center">

      <h1 className="text-2xl font-bold">Admin Panel</h1>

      <button

        onClick={handleLogout}

        className="flex items-center space-x-2 bg-red-600 text-white px-4 py-2 rounded-lg hover:bg-red-700 transition-colors"

        >

        <LogOut className="w-4 h-4" />

        <span>Logout</span>

      </button>

    </div>

  </nav>

<div className="max-w-7xl mx-auto p-6">

  { /* Tabs */ }

  <div className="bg-white rounded-lg shadow-sm mb-6">

    <div className="flex border-b">

      {[ 'projects', 'testimonials', 'contacts' ].map((tab) => (

        <button

          key={tab}

          onClick={() => setActiveTab(tab)}

          className={`px-6 py-3 font-medium capitalize ${

            activeTab === tab

              ? 'text-blue-600 border-b-2 border-blue-600'

              : 'text-gray-500 hover:text-gray-700'

            }`}

          >

          {tab}

        </button>

      )))}

    </div>

  </div>

  { /* Projects Tab */ }

  {activeTab === 'projects' && (

    <div className="bg-white rounded-lg shadow-sm p-6">

      <div className="flex justify-between items-center mb-6">

        <h2 className="text-xl font-bold">Portfolio Projects</h2>

        <button

          onClick={() => {
```

```
        setShowModal(true);

        setEditingItem(null);

        setProjectForm({ title: "", description: "", image: "", category: "", link: "" });
    }}

    className="bg-blue-600 text-white px-4 py-2 rounded-lg hover:bg-blue-700 transition-colors flex items-center space-x-2"
>

    <Plus className="w-4 h-4" />

    <span>Add Project</span>

</button>

</div>


<div className="grid gap-4">

    {projects.map((project) => (

        <div key={project.id} className="border rounded-lg p-4 flex justify-between items-center">

            <div>

                <h3 className="font-semibold">{project.title}</h3>

                <p className="text-gray-600 text-sm">{project.category}</p>

                <p className="text-gray-500 text-sm mt-1">{project.description}</p>

            </div>

            <div className="flex space-x-2">

                <button

                    onClick={() => {

                        setEditingItem(project);

                        setProjectForm(project);

                        setShowModal(true);

                    }}

                    className="p-2 text-blue-600 hover:bg-blue-50 rounded"

                >

                    <Edit className="w-4 h-4" />

                </button>

                <button

                    onClick={() => handleDelete('project', project.id)}

                    className="p-2 text-red-600 hover:bg-red-50 rounded"

                >

                    <Trash2 className="w-4 h-4" />

                </button>

            </div>

        </div>

    ))}

</div>

</div>

)}

{/* Testimonials Tab */}

{activeTab === 'testimonials' && (
```

```
<div className="bg-white rounded-lg shadow-sm p-6">

  <div className="flex justify-between items-center mb-6">

    <h2 className="text-xl font-bold">Testimonials</h2>

    <button

      onClick={() => {

        setShowModal(true);

        setEditingItem(null);

        setTestimonialForm({ name: "", company: "", text: "", rating: 5 });

      }}

      className="bg-blue-600 text-white px-4 py-2 rounded-lg hover:bg-blue-700 transition-colors flex items-center space-x-2"

    >

      <Plus className="w-4 h-4" />

      <span>Add Testimonial</span>

    </button>

  </div>
```

```
<div className="grid gap-4">

  {testimonials.map((testimonial) => (

    <div key={testimonial.id} className="border rounded-lg p-4 flex justify-between items-start">

      <div>

        <h3 className="font-semibold">{testimonial.name}</h3>

        <p className="text-gray-600 text-sm">{testimonial.company}</p>

        <p className="text-gray-500 text-sm mt-2">"{testimonial.text}"</p>

        <p className="text-yellow-500 text-sm mt-1">★ {testimonial.rating}/5</p>

      </div>

      <div className="flex space-x-2">

        <button

          onClick={() => {

            setEditingItem(testimonial);

            setTestimonialForm(testimonial);

            setShowModal(true);

          }}

          className="p-2 text-blue-600 hover:bg-blue-50 rounded"

        >

          <Edit className="w-4 h-4" />

        </button>

        <button

          onClick={() => handleDelete('testimonial', testimonial.id)}

          className="p-2 text-red-600 hover:bg-red-50 rounded"

        >

          <Trash2 className="w-4 h-4" />

        </button>

      </div>

    </div>

  ))}

</div>
```

```
    )}

</div>

</div>

)}

{/* Contacts Tab */}

{activeTab === 'contacts' && (

  <div className="bg-white rounded-lg shadow-sm p-6">

    <h2 className="text-xl font-bold mb-6">Contact Submissions</h2>

    <div className="grid gap-4">

      {contacts.map((contact) => (

        <div key={contact.id} className="border rounded-lg p-4">

          <div className="flex justify-between items-start mb-3">

            <div>

              <h3 className="font-semibold">{contact.name}</h3>

              <p className="text-gray-600 text-sm">{contact.email}</p>

            </div>

            <span className={`px-2 py-1 rounded text-xs ${

              contact.status === 'read'

                ? 'bg-green-100 text-green-800'

                : 'bg-yellow-100 text-yellow-800'

            }`}>

              {contact.status}

            </span>

          </div>

          <p className="text-gray-700 mb-3">{contact.message}</p>

          <div className="flex justify-between items-center text-sm text-gray-500">

            <span>{new Date(contact.createdAt?.toDate()).toLocaleDateString()}</span>

            <button

              onClick={() => handleContactStatusUpdate(

                contact.id,

                contact.status === 'unread' ? 'read' : 'unread'

              )}

              className="text-blue-600 hover:underline"

            >

              Mark as {contact.status === 'unread' ? 'Read' : 'Unread'}

            </button>

          </div>

        </div>

      )})

    </div>

  )}

</div>

)}

</div>

{/* Modal for adding/editing projects and testimonials */}
```

```
{showModal && (  
  
  <div className="fixed inset-0 bg-black bg-opacity-50 flex items-center justify-center z-50">  
  
    <div className="bg-white rounded-lg p-6 w-full max-w-md max-h-screen overflow-y-auto">  
  
      <h3 className="text-lg font-bold mb-4">  
  
        {editingItem ? 'Edit' : 'Add'} {activeTab.slice(0, -1)}  
  
      </h3>  
  

```

```
{activeTab === 'projects' ? (  
  
  <form onSubmit={handleSaveProject} className="space-y-4">  
  
    <input  
  
      type="text"  
  
      placeholder="Project Title"  
  
      value={projectForm.title}  
  
      onChange={(e) => setProjectForm({...projectForm, title: e.target.value})}  
  
      className="w-full p-3 border rounded-lg"  
  
      required  
  
    />  
  
    <input  
  
      type="text"  
  
      placeholder="Category"  
  
      value={projectForm.category}  
  
      onChange={(e) => setProjectForm({...projectForm, category: e.target.value})}  
  
      className="w-full p-3 border rounded-lg"  
  
      required  
  
    />  
  
    <textarea  
  
      placeholder="Description"  
  
      value={projectForm.description}  
  
      onChange={(e) => setProjectForm({...projectForm, description: e.target.value})}  
  
      className="w-full p-3 border rounded-lg"  
  
      rows="3"  
  
      required  
  
    />  
  
    <input  
  
      type="url"  
  
      placeholder="Image URL"  
  
      value={projectForm.image}  
  
      onChange={(e) => setProjec
```