

// Initialize Firebase

```
const firebaseConfig = {
  apiKey: "YOUR_API_KEY",
  authDomain: "YOUR_PROJECT.firebaseio.com",
  projectId: "YOUR_PROJECT",
  storageBucket: "YOUR_PROJECT.appspot.com",
  messagingSenderId: "...",
  appId: "..."
};
firebase.initializeApp(firebaseConfig);
const auth = firebase.auth();
const db = firebase.firestore();
const storage = firebase.storage();
```

// UI Elements

```
const loginBtn = document.getElementById('login-btn');
const logoutBtn = document.getElementById('logout-btn');
const loginModal = document.getElementById('login-modal');
const loginForm = document.getElementById('login-form');
const uploadSection = document.getElementById('upload-section');
const uploadForm = document.getElementById('upload-form');
const productsList = document.getElementById('products-list');
```

// Show login modal

```
loginBtn.addEventListener('click', () => loginModal.hidden = false);
```

// Logout

```
logoutBtn.addEventListener('click', () => auth.signOut());
```

// Auth state listener

```
auth.onAuthStateChanged(user => {
  if(user) {
    loginBtn.hidden = true;
    logoutBtn.hidden = false;
    loginModal.hidden = true;
    uploadSection.hidden = false;
    loadProducts();
  } else {
    loginBtn.hidden = false;
    logoutBtn.hidden = true;
    uploadSection.hidden = true;
  }
});
```

// Handle login/signup

```
loginForm.addEventListener('submit', e => {
  e.preventDefault();
  const { email, password } = loginForm.elements;
  auth.signInWithEmailAndPassword(email.value, password.value)
    .catch(err => {
      if(err.code === 'auth/user-not-found') {
        return auth.createUserWithEmailAndPassword(email.value, password.value);
      }
    })
});
```

```
    alert(err.message);
  });
});
```

// Upload new product

```
uploadForm.addEventListener('submit', async e => {
  e.preventDefault();
  const name = uploadForm['prod-name'].value;
  const price = uploadForm['prod-price'].value;
  const imageFile = uploadForm['prod-image'].files[0];
  const videoFile = uploadForm['prod-video'].files[0];
```

// Upload media

```
const imgRef = storage.ref(`products/${Date.now()}_img`);
const vidRef = videoFile ? storage.ref(`products/${Date.now()}_vid`) : null;
await imgRef.put(imageFile);
const imgUrl = await imgRef.getDownloadURL();
let vidUrl = "";
if(vidRef) {
  await vidRef.put(videoFile);
  vidUrl = await vidRef.getDownloadURL();
}
```

// Save product data

```
await db.collection('products').add({ name, price, imgUrl, vidUrl, timestamp:
firebase.firestore.FieldValue.serverTimestamp() });
uploadForm.reset();
loadProducts();
});
```

// Load & display products

```
async function loadProducts() {
  productList.innerHTML = "";
  const snapshot = await db.collection('products').orderBy('timestamp','desc').get();
  snapshot.forEach(doc => {
    const data = doc.data();
    const card = document.createElement('div');
    card.className = 'product-card';
    card.innerHTML = `
      <h3>${data.name}</h3>
      
      <p>₹${data.price}</p>
      ${data.vidUrl ? `<video controls width="100%" src="${data.vidUrl}"></video>` : ""}
    `;
    productList.append(card);
  });
}
```