## **### ShopSphere E-commerce App Documentation**

### \*\*Author\*\*: Esmael Mosad

### \*\*Introduction\*\*

ShopSphere is a full-stack e-commerce app built with React, Firebase, and Stripe. It supports user authentication, cart management, payments via Stripe, and order history, styled with Tailwind CSS,Created as a task for interview at **zimozi company** 

### \*\*Features\*\*

- Login: Google/email via Firebase (`src/Login.tsx`).
- Cart: Real-time updates (`src/CartPage.tsx`).
- Checkout: Stripe payments (`src/CheckoutPage.tsx`).
- Order History: Error-handled (`src/OrderHistory.tsx`).
- Storage: Images via `postimg.cc` (`storage.rules`).

# \*\*Technical Design\*\*

- Frontend: React, TypeScript, Tailwind CSS (`src/`, `tailwind.config.js`).
- Backend: Firebase Functions (`functions/`).
- Database: Firestore ('src/firebase.ts').
- Storage: `postimg.cc` workaround (replaced Firebase Storage).
- Payments: Stripe API integration.

### \*\*Development Process\*\*

- Tools: Vite, Firebase CLI, VS Code.
- Challenges: Login redirects, Stripe payments, data refresh.
- Solutions: Fixed Auth redirects, debugged Stripe, persisted data.

### \*\*Setup Guide\*\*

- 1. Clone: 'git clone https://github.com/esmael889/ecommerce-app.git'
- 2. Install: 'npm install' (root), 'cd functions && npm install'.
- 3. Configure: Add `.env` (see README).
- 4. Run: `npm start`, `firebase deploy --only functions`.

### \*\*Reflection\*\*

Learned React, Firebase, and Stripe integration. Future: Add search functionality.

#### \*\*Links\*\*

- GitHub: https://github.com/esmael889/ecommerce-app
- Video:

https://fcibuedu-my.sharepoint.com/:f:/g/personal/esmaiel195025\_fci\_bu\_edu\_eg/EjN2xHDiyXFNIh-y3l59t88Bvw KRMfoNNl8V6LUZjSrgQ?e=oEcbib