

E-Commerce Clothing App Documentation

1. Project Planning

Project Overview:

This system has two applications:

- Customer App: for browsing clothing categories, viewing products, adding items to cart, and placing orders.
- Admin App: for adding, updating, and deleting products and categories.

The backend uses Firebase Authentication and Firebase Firestore.

Main Objectives:

- Provide smooth shopping experience
- Allow admin to manage products
- Store data in Firestore
- Use Firebase Auth for login

Customer App Scope:

- Login/Register
- Browse categories
- View products
- Add to cart
- Checkout

Admin App Scope:

- Add/Update/Delete categories
- Add/Update/Delete products

2. Stakeholder Analysis

Customer: Uses customer app to browse and buy clothes.

Admin: Uses admin app to manage products and categories.

3. Database Design (Firestore)

Collections:

users:

- name
- email
- createdAt

categories:

- Id
- name
- Image URL
- categoryNumber

products:

- Id
- name
- price
- discount
- final Price
- categoryId
- size
- colors

- rating
- imageUrl
- description
- category
- isFeatured

carts:

- userId
- productId
- quantity
- size
- color
- price

4. UI/UX Design

Customer App Screens:

- Login/Register
- Home
- Categories
- Products
- Product Details
- Cart
- Checkout
- Profile

Admin App Screens:

- Dashboard

- Add Category
- Add Product
- Update Product
- Update Category

Design Goals:

- Modern clothing style UI
- Clean admin CRUD interface