Project Final Report (Ecommerce Website):

**Aim**

To develop an e-commerce platform for selling trendy Men fashion products.

**Description**

Our e-commerce platform, "Ebra", provides users with a wide range of men clothing products, from hats to shoes. The platform aims to make fashion shopping easy, fun, and accessible.

**Functional and Non-Functional Requirements**

Functional Requirements

* Users must be able to register and log in.
* Users should be able to browse products.
* A search functionality should be present to find products.
* Users should be able to filter the products by favorites.
* Users should be able to add products to cart and proceed to checkout.
* Users should be able to add products to Wishlist.
* Payment gateway integration for processing payments.

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Non-Functional Requirements

* The website should load within 3 seconds.
* The website should be represented in English and Frensh.
* It should be mobile-responsive.
* The system should be able to handle up to 10,000 concurrent users.
* Data backups should occur daily.
* System uptime of 99.9%.

**User Stories**

* Browse Products

As a user, I want to browse products and filter them by favorites so that I can quickly find what I am looking for.

* Search for a Product

As a user, I want to search for a specific product so that I can find it without browsing through multiple pages.

* Add to Cart

As a user, I want to add products to my cart so that I can purchase multiple items at once.

* Add to Wishlist

As a user, I want to add products to my Wishlist so that I can save my items for later.

* Checkout

As a user, I want to be able to securely check out and make a payment so I can receive my ordered products.

**Test Cases**

* User Registration:

Input: Valid email and password.

Expected Output: Successful registration and redirection to login page.

Actual Output: Registration successful, user redirected to login page.

* Add Product to Cart

Input: Click "Add to Cart" on a product.

Expected Output: Product is added to cart, cart count increases by 1.

Actual Output: Product added, cart count increased.

* User Login:

Input: Valid email and password.

Expected Output: Successful login and redirection to homepage.

Actual Output: Login successful, user redirected to homepage.

* Admin Panel

Input: Path /admin.

Expected Output: Only signed in admin users should access this endpoint.

Actual Output: Authorization checked of signed in user if admin 🡪 get page / else redirect to homepage.

**Individual’s Role and Responsibilities**

**Wei Jin**

* Developed the database schema.
* Internationalization and localization.
* Admin Panel.
* API CRUD Operations.

**Malek Kazal**

* Designed the UI/UX of the website.
* Stripe Integration / Checkout Logic.
* Firestore configuration / Integration.
* AWS Hosting.
* Full Routing.
* Authorization.

**Sean Burke**

* Firebase Signup/Login.
* Authentication.
* Single Product Component.
* Code Refactoring.