



November 04, 2023

# *Ecloset*

## **UI/UX Design + Architectural Design for the Software Solution**

**Students (G5-32)**

CHEBOUI Fatma Imene (Leader)

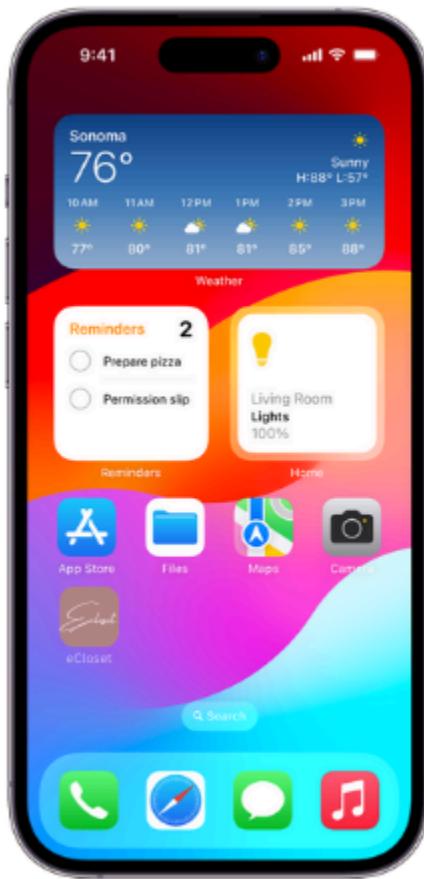
BAKHOUCHE Rachel

DJAID Douaa

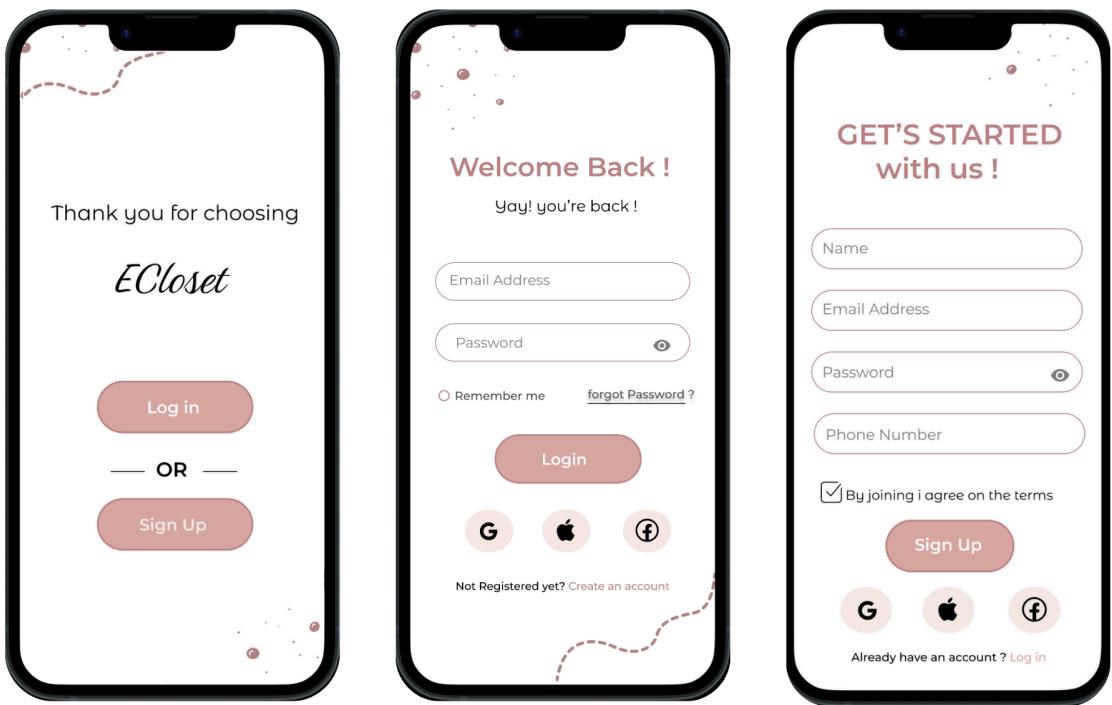
AFRA Hana

## Section 1 : UI/UX Designs

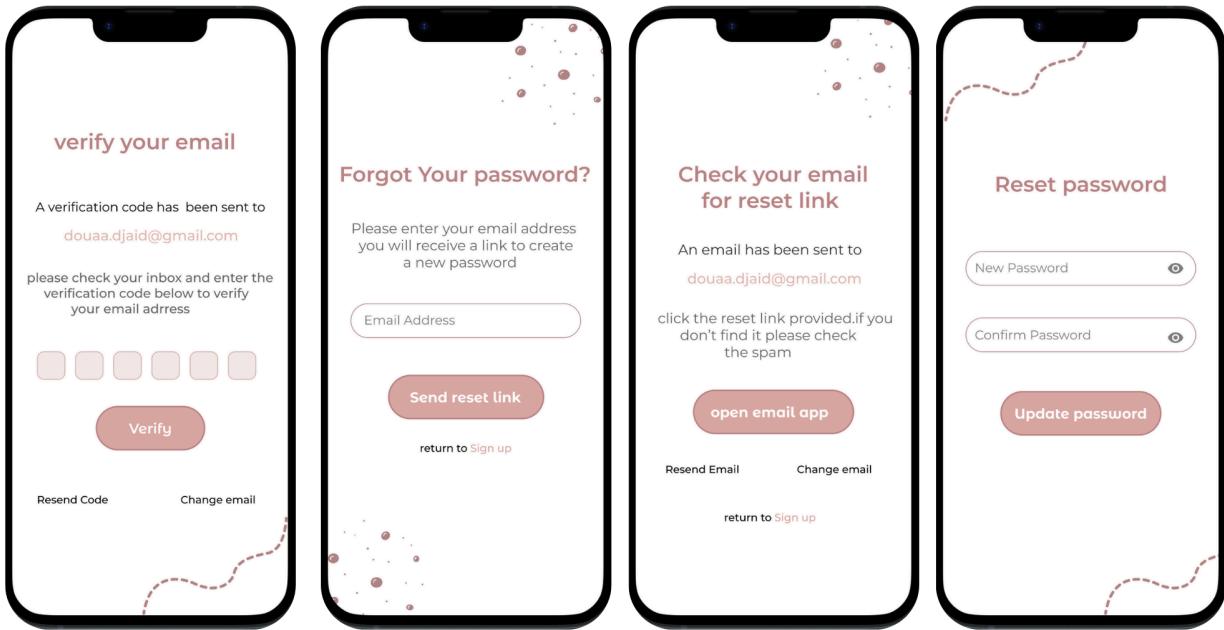
### App-Icon:



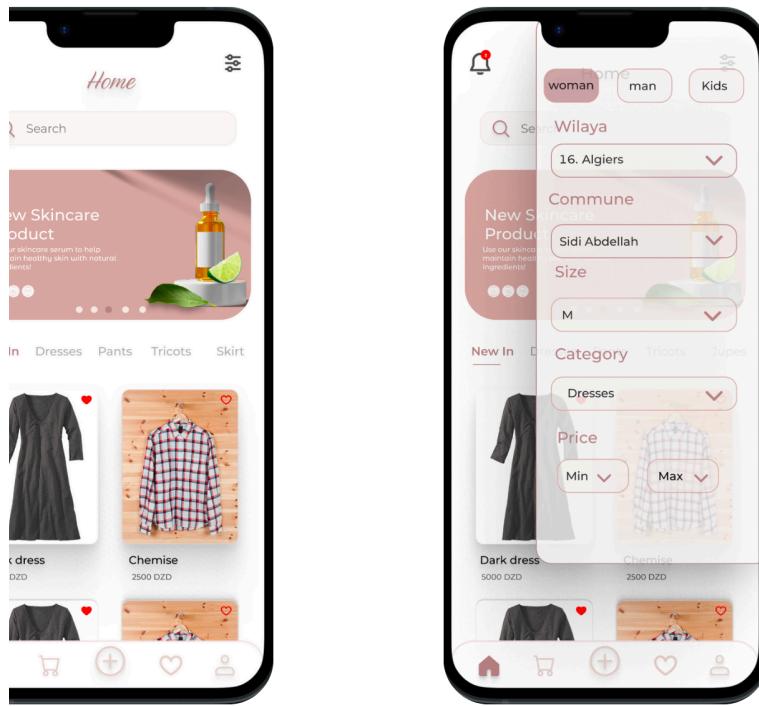
## Registration (Sign-up/ Login):



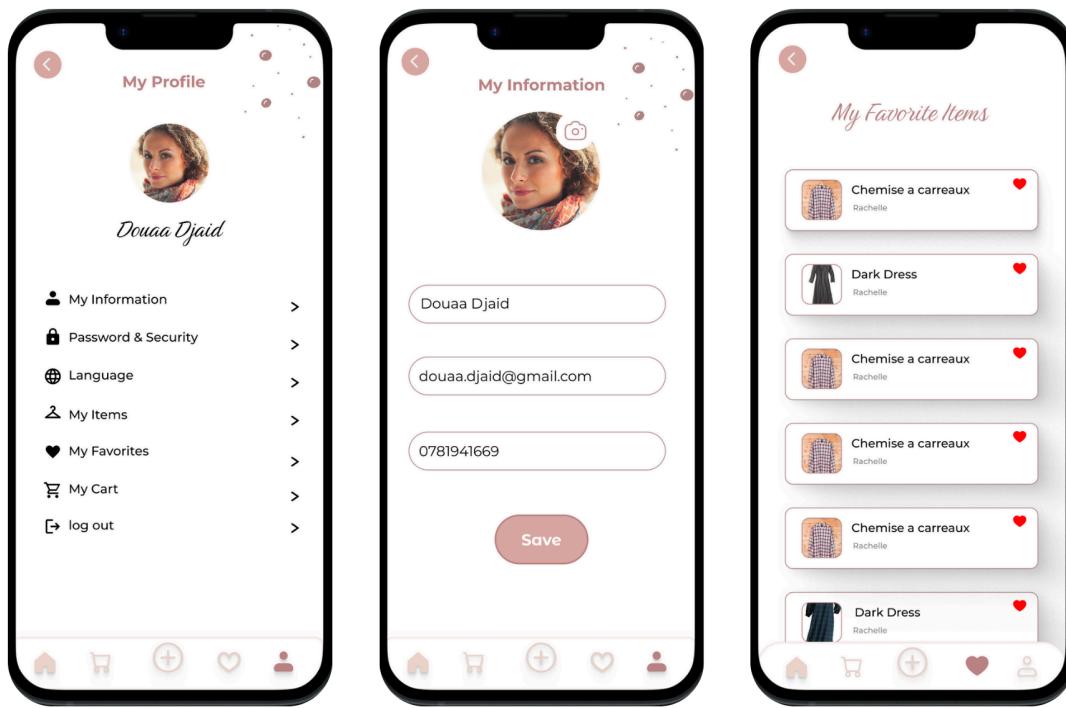
## Password Reset:



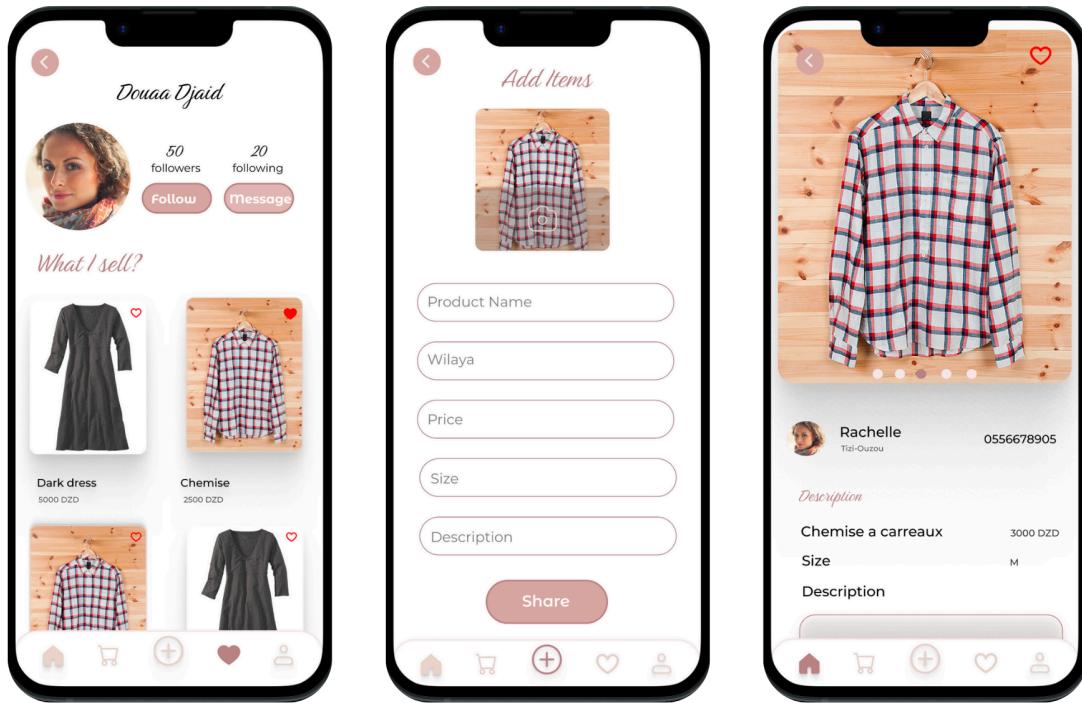
## Home-Page + Filter Search:



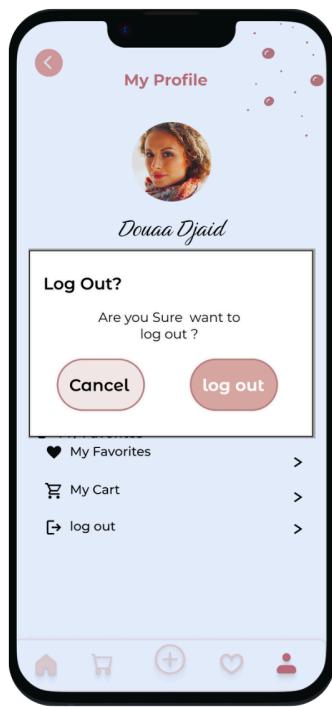
## User Profile + Edit profile info + my Favorite items:



## Seller profile +Procedure of adding an item for sale and its User-Facing Presentation:

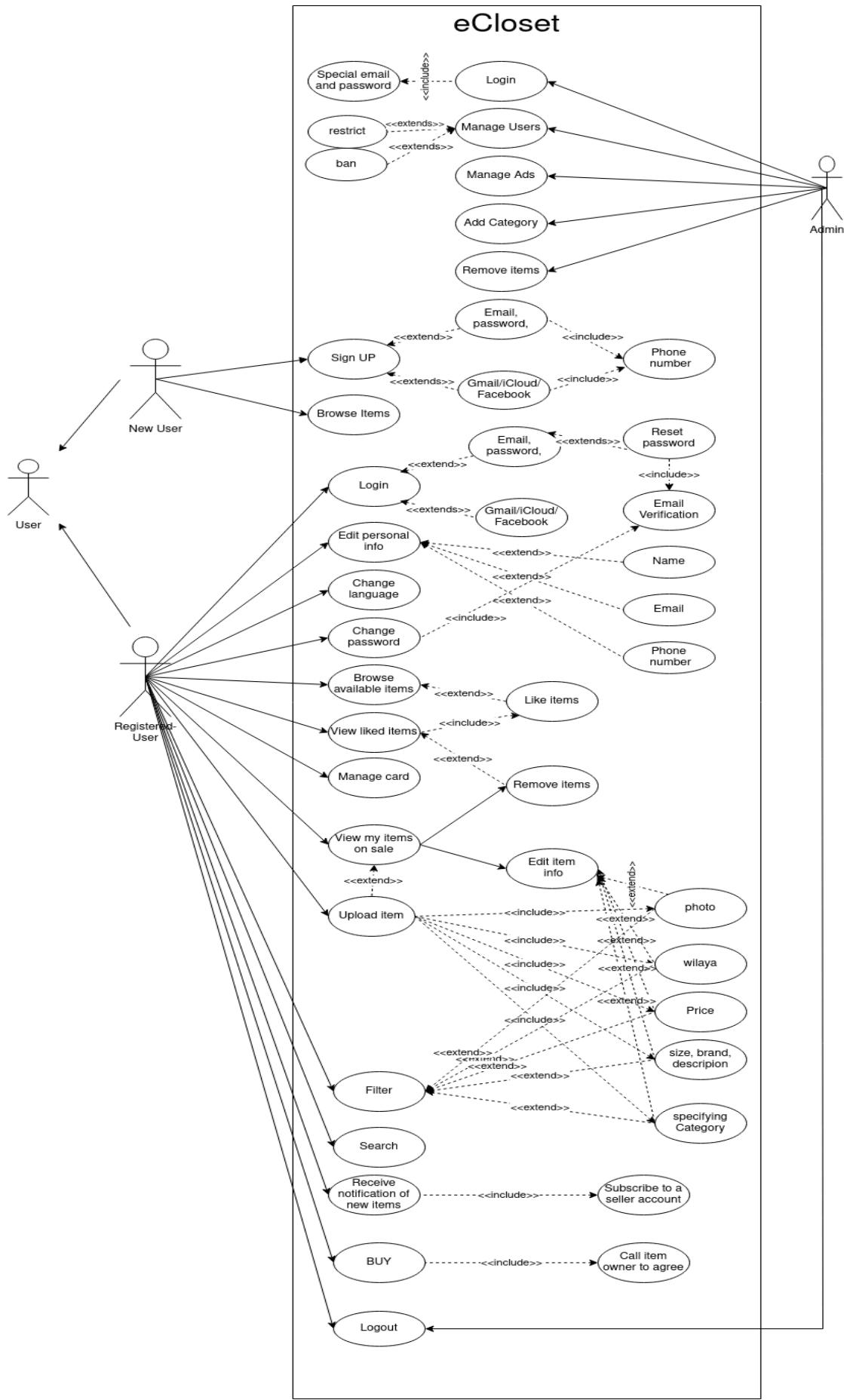


## Logout:

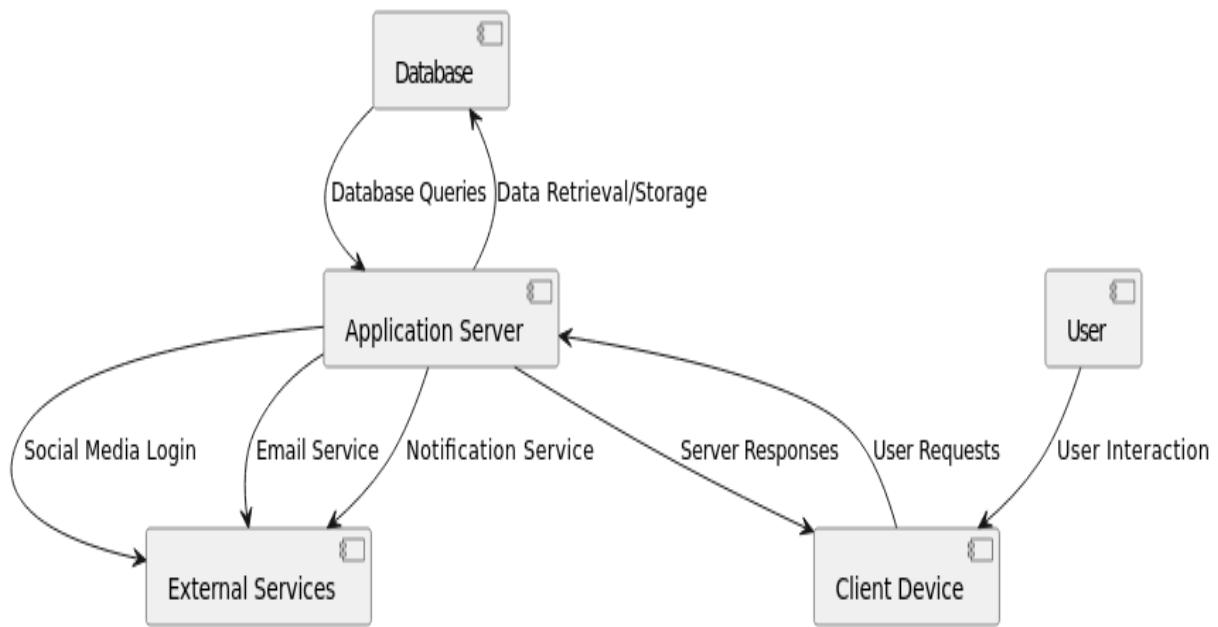


## Section 2 : Software Architecture:

### *2.1 Use Case Diagram:*



## 2.2 Architecture Overview :



## 2.3 Software Components :

### 1. Mobile Frontend (Client Side)

- Objective: Provide a user-friendly interface for buyers and sellers on mobile devices.
- Technology/Framework: Flutter for IOS and Android

### 2. Backend Services

- Objective: To manage business logic, database interactions, and serve data to the mobile app.

- Technology/Framework:
  - Server: Python for handling requests and logic.
  - Database: Firebase Realtime Database for storing data.

### **3. APIs (Application Programming Interfaces)**

- Objective: Enable communication between the mobile app and backend services.
- Technology/Framework: RESTful APIs to return data in XML format using standard HTTP methods (GET, POST, PUT, Delete) to perform CRUD (create, read, update, delete) operations on resources.

### **4. User Authentication & Authorization**

- Objective: Secure user logins, registrations, and access control.
- Technology/Framework: Firebase Authentication for user management.

### **5. Push Notification Service**

- Objective: Send notifications for wish-listed items, updates, etc.
- Technology/Framework: Firebase Cloud Messaging (FCM)

### **6. Image & Content Storage**

- Objective: Store images, descriptions, and user-related content.
- Technology/Framework: Firebase Cloud Storage

### **7. Local Data Storage**

- Objective: Store temporary app data and user preferences locally.

- Technology/Framework: SQLite

## **8. Geolocation Services**

- Objective: Enable location-based features within the app.
- Technology/Framework: use packages for geolocation in Flutter like ‘geolocator’