



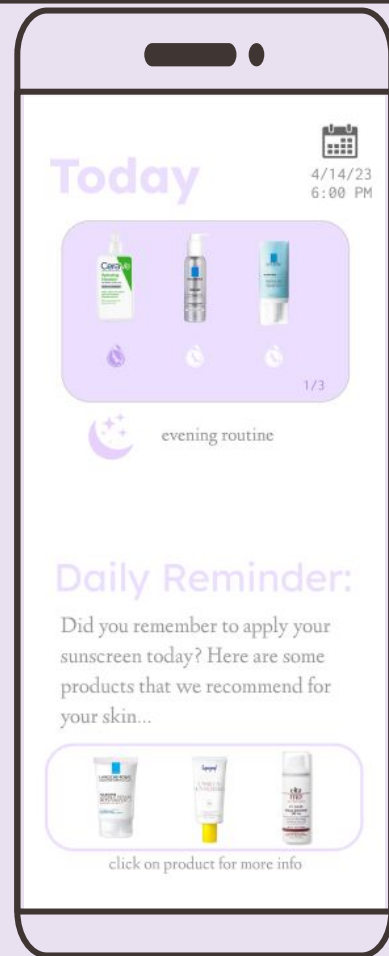
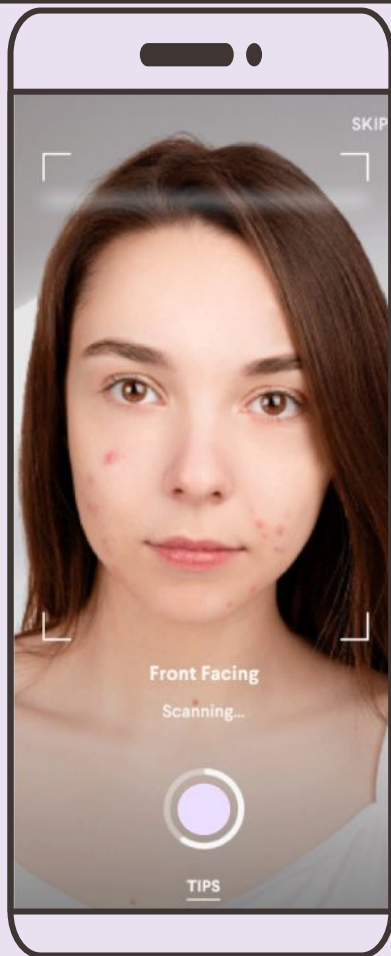
# Skin4You

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# Recap of App

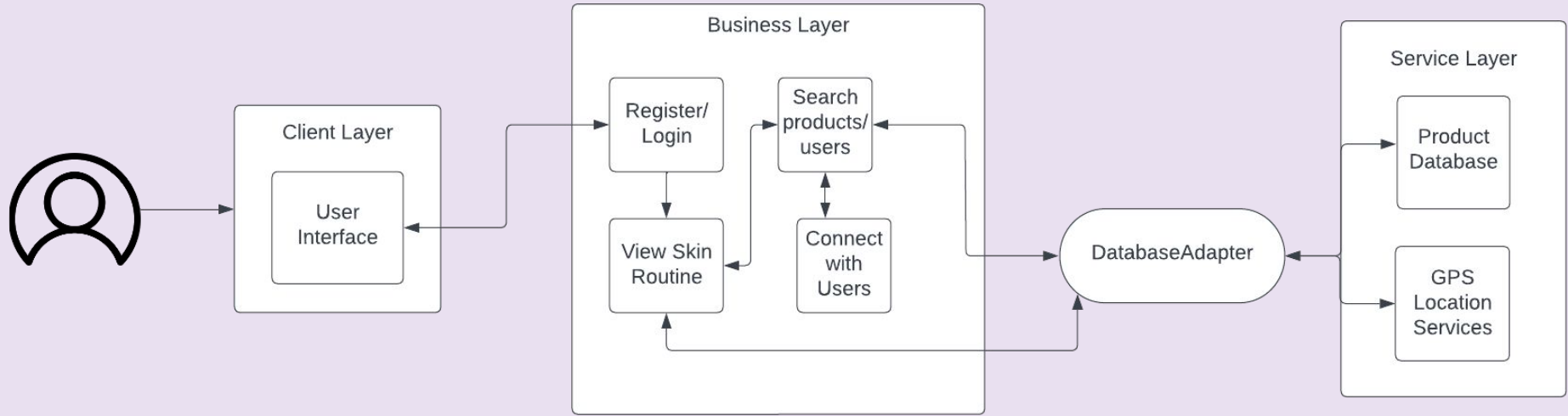
- Skin4You will allow customers to find a personalized skin care routine specific to their skin type and goals. The app will recommend dermatologist approved products and provide a link to and/or location as to where the product could be bought. Users can share their reviews and own routine with friends and family through the interface, making the vast world of skin care products easier to navigate.
  - Skin4You will be free for everybody with an additional cost if the users would like to access the premium benefits such as a wide array of discounts on a variety of dermatologist approved skin care brands/products.
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# System Overview

- architectural design utilizes a three-tier style
  - composed of a client layer, business layer and service layer
    - **client** server will consist of the user interface and features
    - **business** layer will consist of the app's functions such as the logging in, account creation, product matching, purchasing and sharing through the social aspect
      - layer will be home to the user's profile, preferences and information
    - **service** layer will host the location services software, online databases and product information all used to facilitate the business the layer.

# Structural Design



# Actor Identification

01

## New Users

actors who have not  
created an account

02

## Registered Users

actors who have  
created an account

03

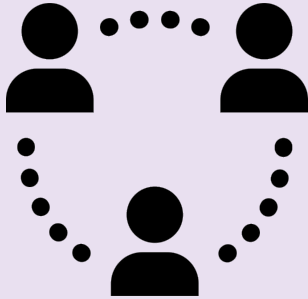
## Server

actor which hosts  
the databases and  
holds user data

# Design Rationale

## Three-Tier Architectural Style

- ❖ Client Layer
- ❖ Business Layer
- ❖ Service Layer



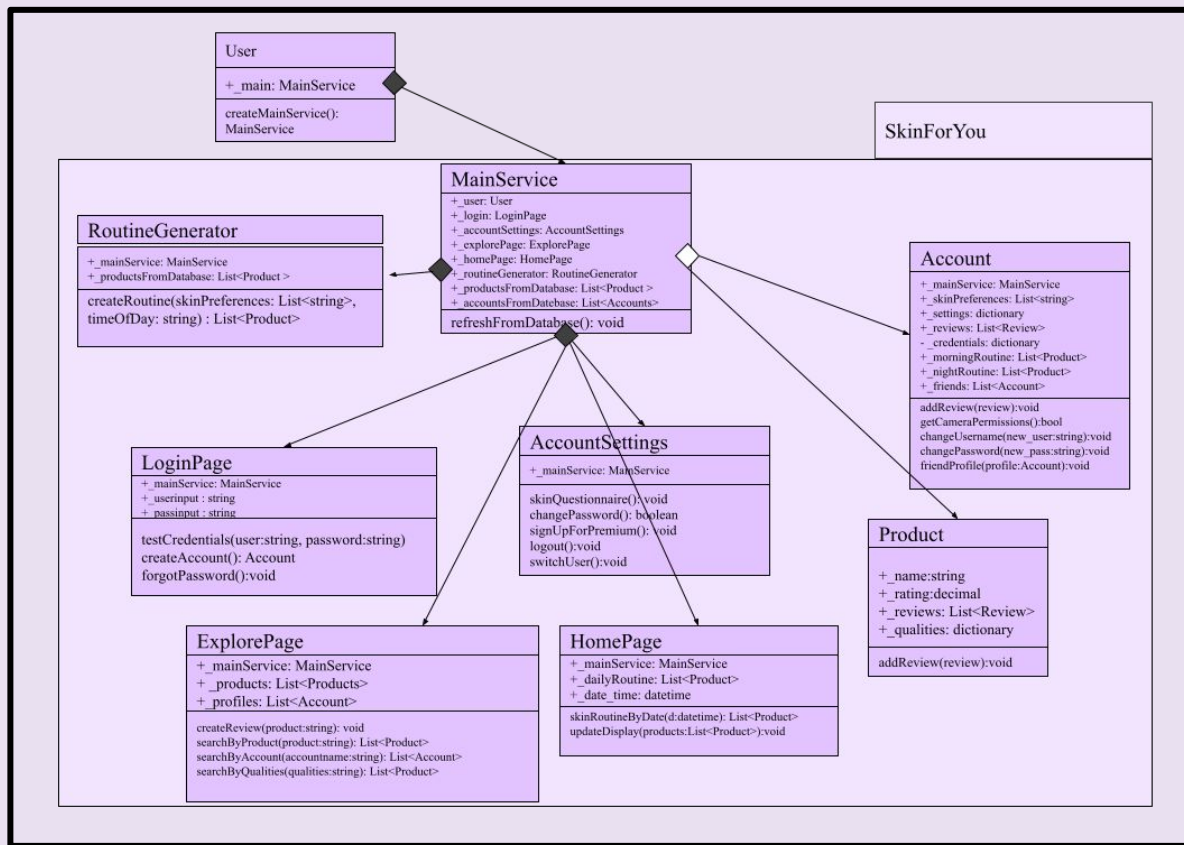
## Design Patterns

- ❖ **Façade:** The user will be exposed to a simple display with easy functionality. Behind the aesthetic, social app, will be a complex system of algorithms and databases allowing the user to find the perfect products for their unique skin.
- ❖ **Adapter:** This design will allow for incompatible components to become compatible with each other, allowing for a seamless three tier system. This will be the connection between the multiple APIs utilized to make Skin4You an easy, useful mobile application.
- ❖ **Decorator:** This design will add functionality to existing components without modifying source code. This design will be most useful in the social media aspect of the application.
- ❖ **Strategy:** This design allows for a family of algorithms to become interchangeable. This design will be vital for possible updates.
- ❖ **Command:** This design encapsulates a command request as an object, allowing for the parameterization of clients with different requests, queue or log requests and support undoable operations. This design is vital to the user interface.

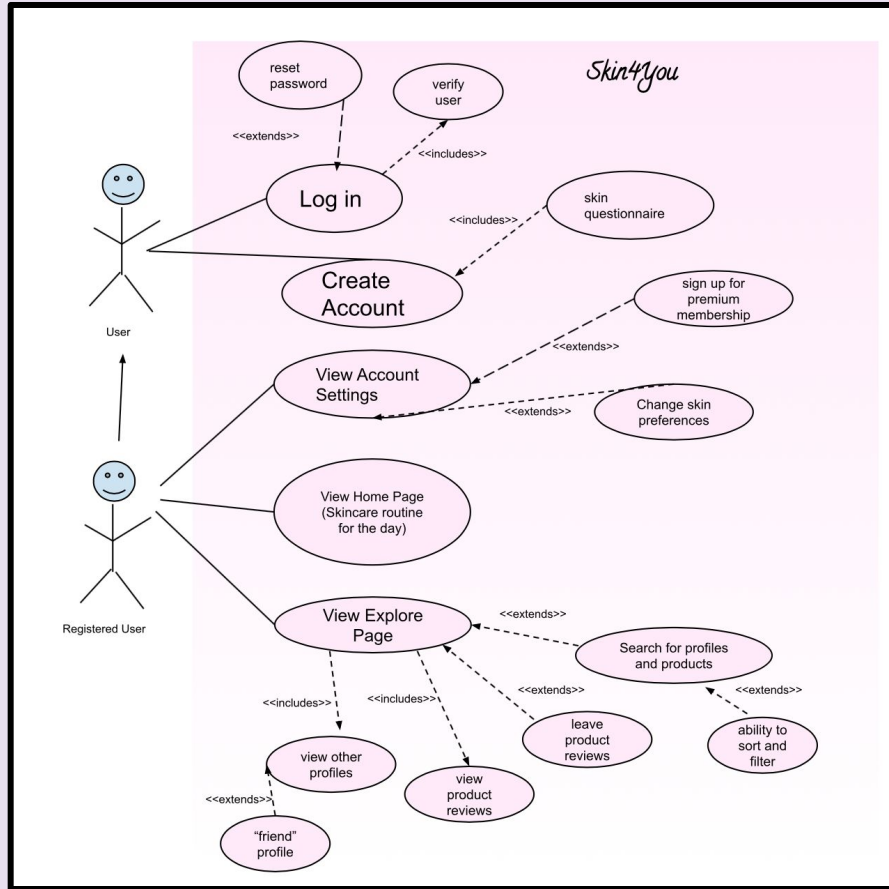
# Framework

For our framework, we will be utilizing **Flutter**. Flutter is an open-source UI software development kit created by Google. It is used to develop cross-platform applications for Android, iOS, Linux, macOS, Windows, Google Fuchsia, and the web from a single codebase. **Flutter's versatility is what makes it the most attractive framework for our mobile application.** Skin4You is going to be accessible on several platforms and will contain complex algorithms and a sophisticated structure. Flutter, not only well documented, but will also provide the best platform and experience for the users.



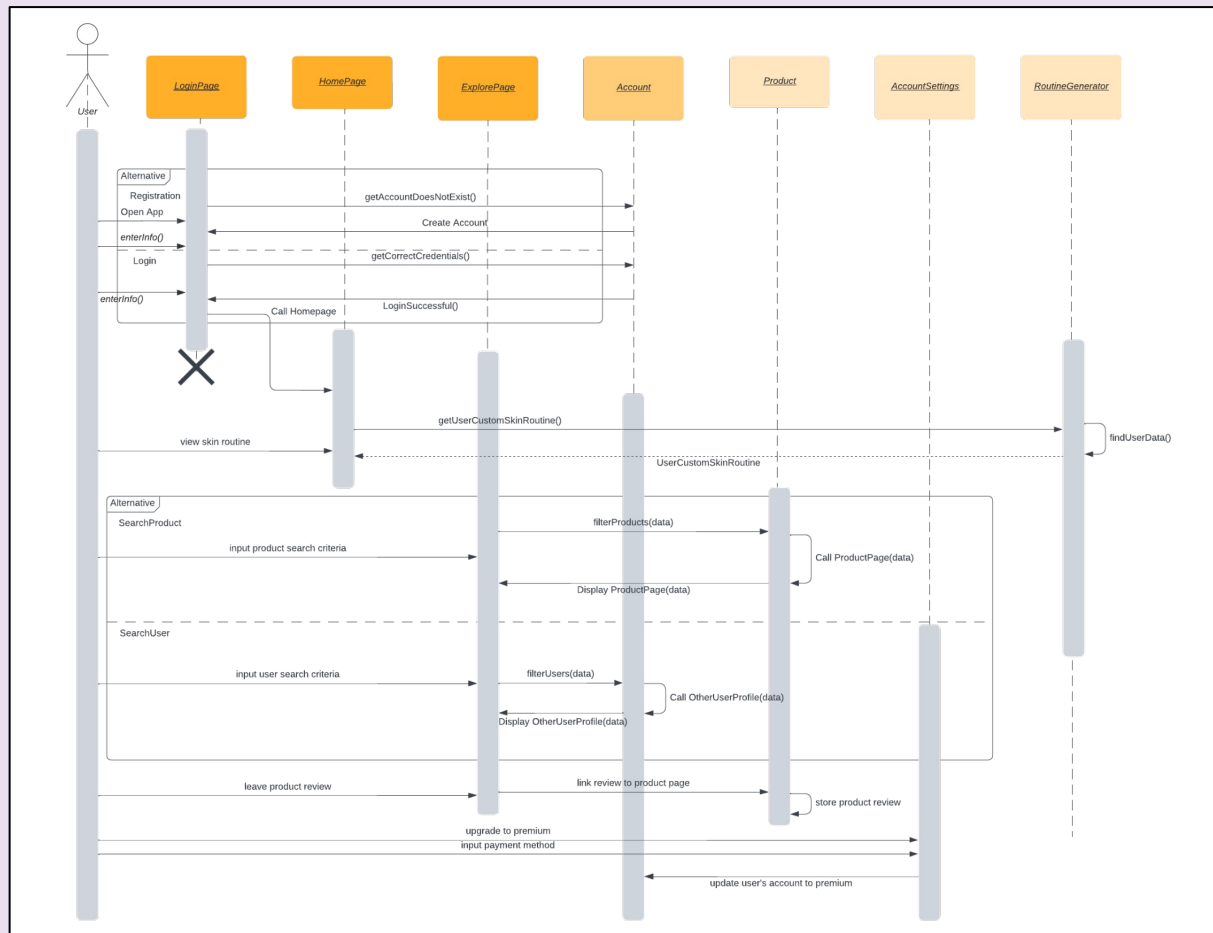


# Class Diagram



# Use Case Diagram

# Functional Design: *Interacting with Application*



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**Thank you!**

*it's a beautiful day to take care of your skin*

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