



CSC 431

Skin4You

Software Requirements Specification (SRS)

Team 6

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Version History

Version	Date	Authors	Change Comments
1.0	2/15/23	Miranda Bialek, Isabella Dieguez, Rachel Tomasetti	First Draft

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Figure 1: System Use Case Diagram

1. System Requirements

1.1 Functional Requirements

1.1.1 Create an Account and Profile

Table 1: Create an Account and Profile

Title	Create an Account and Profile
Description	User can create an account and profile. In creating profile, user can specify various details about their skin and what they look for in a routine (eg, dry, oily, sun damage, acne, inflammation etc.). User is prompted to scan face using a front-facing camera so that the system can collect the necessary data to create a user-specific skincare routine.
Priority	0
Precondition(s)	User selects “create new” button
Basic Flow	<ol style="list-style-type: none">1. user selects “Create New Account” from home page2. user specifies login details (username, password, phone number, email)3. user is brought through series of questions about skin preferences, goals, etc.
Postconditions(s)	User is brought to page with message communicating the questions are done and their routine/suggested products await. User given button with message communicating something to the effect of “Let’s go!” (which navigates them to their routine)
Use Case Diagram	3.1.1

1.1.2 Logging in

Table 2: Logging in

Description	User enters username and password
Priority	0
Precondition(s)	User has pre-existing account
Basic Flow	<ol style="list-style-type: none">1. user types in username2. user types in password

	3. user clicks “Login”
Postconditions(s)	if authenticated, user is brought to homepage. if unidentified credentials, appropriate message is shown.
Use Case Diagram	3.1.1

1.1.3 Account Settings

Table 3: Account Settings

Description	User is presented with a menu of various items relating to account and profile. Menu items can be selected to result in accessing/modifying account information.
Priority	3
Precondition(s)	User has pre-existing account and is logged in
Basic Flow	<ol style="list-style-type: none"> 1. user selects “Account Settings” from (bottom of) home page 2. user is brought to a scrollable menu of items relating to accessing/modifying account info
Postconditions(s)	User is presented page of menu of account settings categories
Use Case Diagram	3.1.1

1.1.4 View Skin Routine/Product Suggestions

Table 4: View Skin Routing/Product Suggestions

Description	User is presented with a graphic products for that day of skin routine
Priority	1
Precondition(s)	User has pre-existing account and is logged in
Basic Flow	<ol style="list-style-type: none"> 1. This is automatically home page when user is logged in 2. User is presented with either morning/evening version (depending on time of day) of enumerated products in sequence of routine 3. user can swipe right/left to see morning/night of that day’s routine

	4. user can choose view by day or by week 5. user can select a different day of the routine to view
Postconditions(s)	User is at home page with skin routine graphic
Use Case Diagram	3.1.1

1.1.5 Share Skin Product Reviews and Routine with Network

Table 5: Share Skin Product Reviews and Routine with Network

Title	Share Skin Product Reviews and Routine with Network
Description	User has ability to share skin product reviews
Priority	5
Precondition(s)	User is registered
Basic Flow	<ol style="list-style-type: none"> 1. User identifies product 2. User records skin type/goals 3. User writes short review
Postconditions(s)	User is navigated to page of finished review
Use Case Diagram	3.1.1

1.1.6 Search Users with Specific Skin Type

Table 6: Search Users with Specific Skin Type

Title	Search Users with Specific Skin Type
Description	Users can utilize search function to discover and explore other users profiles/routines with matching or similar skin types
Priority	4
Precondition(s)	Other user profiles with specific skin type that current user are searching for are public
Basic Flow	<ol style="list-style-type: none"> 1. User can utilize search bar to find friends and specific people they are familiar with on the network 2. User can also input specific search criteria (skin type, color, e.g.) to filter results

	3. User can scroll through, browse, and view other users public profiles and view information on their routines, reviews, and others they are connected with
Postconditions(s)	User can connect with others on the app so that they can refer back to the profile later on
Use Case Diagram	3.1.1

1.1.7 View Skin Product Reviews

Table 7: View Skin Product Reviews

Title	View Skin Product Reviews
Description	User can click on the products for the custom skin care routine recommended for them and view the reviews of other users
Priority	3
Precondition(s)	User receives their customized skin care routine, other users have already tried and left reviews on the product
Basic Flow	<ol style="list-style-type: none"> 1. User selects specific skin care product that they want to learn more about 2. User can view average five star rating of the product 3. User can view other user's reviews on the product as well as the user's general information (to see if they match)
Postconditions(s)	User can like or dislike the comment if the review was helpful and endorse it later on if they buy the product and had a similar experience
Use Case Diagram	3.1.1

1.1.8 Ability to Filter and Sort

Table 8: Ability to Filter and Sort

Title	Ability to Filter and Sort
Description	User can filter through products based on their skin type, skin color, and specific products that they are searching for

Priority	3
Precondition(s)	User has determined specific criteria that they are looking for
Basic Flow	<ol style="list-style-type: none"> 1. User utilize search bar to search for a specific product 2. User has the ability to adjust a variety of fields including skin type, price range, brand type, etc.
Postconditions(s)	User can browse the products that return as a result, other similar products, and products recommended by users who liked the product they choose (if any)
Use Case Diagram	3.1.1

1.1.9 Connect with Other Users

Table 9: Connect with Other Users

Title	Connect with Other Users
Description	User can connect with other users on the application and can view their profile, as well as be notified when they try/recommend new products
Priority	4
Precondition(s)	User has created a profile and filled out sufficient information and has searched/found people they want to connect with
Basic Flow	<ol style="list-style-type: none"> 1. User has option to sync contacts to see who they know that is using the app 2. User views other profiles 3. User follows another profile with button press
Postconditions(s)	The other user is notified of the new follow and can follow the user back to connect
Use Case Diagram	3.1.1

1.1.10 Sign up for Premium Membership

Table 10: Sign up for Premium Membership

Title	Sign up for Premium Membership
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Description	User has ability to upgrade to a Premium membership for a monthly subscription price
Priority	5
Precondition(s)	User is informed of the benefits of the premium membership and wants to invest
Basic Flow	<ol style="list-style-type: none"> 1. User goes to the account settings and signifies that they want to upgrade to a premium membership 2. User is prompted to fill out financial information 3. User submits information and confirms they would like to upgrade to premium. 4. User receives confirmation message and is informed that to downgrade, they simply have to do it in account settings
Postconditions(s)	User can apply a wide array of substantial discounts to many different skin care products
Use Case Diagram	3.1.1

1.2 Non-Functional Requirements

1.2.1 Accurate Skin Type Matching

Table 11: Accurate Skin Type Matching

Title	Accurate Skin Type Matching
Description	Users will expect the app to match their exact skin type and tone accurately to products.
Priority	0
Applicable FR(s)	1.1.4, 1.1.6, 1.1.8

1.2.2 Efficient Results

Table 12: Efficient Results

Title	Efficient Results
Description	Users will expect the app to provide products that produce efficient results.
Priority	0

Applicable FR(s)	1.1.4, 1.1.6, 1.1.8, 1.1.9
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1.2.3 Network Security

Table 13: Network Security

Title	Network Security
Description	Users will expect the app to provide sufficient network security.
Priority	0
Applicable FR(s)	All

1.2.4 Efficient Search and Match Time

Table 14: Efficient Search and Match Time

Title	Efficient Search and Match Time
Description	Users will expect the app to match them to products and search for the closest location to purchase the product or provide a website to purchase the product online in an efficient amount of time.
Priority	0
Applicable FR(s)	1.1.6, 1.1.7, 1.1.8, 1.1.9

1.2.5 Location Services

Table 15: Location Services

Title	Location Services
Description	Users will expect the app to provide an accurate nearby location to purchase the provided product.
Priority	0
Applicable FR(s)	1.1.4

1.2.6 User Data Privacy and Security

Table 16: User Data Privacy and Security

Title	User Data Privacy and Security
Description	Users will expect the app to provide data privacy and security.
Priority	0
Applicable FR(s)	All

2. System Constraints

2.1 Tool Constraints

2.1.1 Mobile Application Framework Constraint

Table 17: Mobile Application Framework Constraint

Title	Mobile Application Framework Constraint
Description	We will be using Swiftic for the backend framework. Swiftic was chosen due to its high ranking in mobile application frameworks.
Priority	0

2.2 Language Constraints

2.2.1 BackEnd Language

Table 18: BackEnd Language

Title	BackEnd Language
Description	BackEnd will use Java.
Priority	1

2.2.2 FrontEnd Language

Table 19: FrontEnd Language

Title	FrontEnd Language
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Description	FrontEnd will use HTML.
Priority	1

2.3 Platform Constraints

2.3.1 iOS

Table 20: iOS

Title	iOS
Description	App must run on iOS.
Priority	0

2.3.2 Samsung

Table 21: Samsung

Title	Samsung
Description	App must run on Samsung.
Priority	0

2.3.3 Google

Table 22: Google

Title	Google
Description	App must run on Google.
Priority	0

2.4 Hardware Constraints

2.4.1 iPhone Required

Table 23: iPhone Required

Title	iPhone device required.
Description	Users must have an iPhone to access the app.
Priority	0

2.4.2 Samsung Required

Table 24: Samsung Required

Title	Samsung device required.
Description	Users must have a Samsung to access the app.
Priority	0

2.4.3 Google Phone Required

Table 25: Google Phone Required

Title	Google device required.
Description	Users must have a Google Phone to access the app.
Priority	0

2.5 Network Constraints

2.5.1 Internet Required

Table 26: Internet Required

Title	Internet Required
Description	Users must be connected to the Internet via data or wifi to access the app.
Priority	0

2.6 Deployment Constraints

2.6.1 Swiftic Deployment

Table 27: Swiftic Deployment

Title	Swiftic Deployment
Description	Skin4You will be deployed using Swiftic, a leading DIY mobile app maker that helps small businesses build personalized apps.

Priority	1
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2.7 Budget & Schedule Constraints

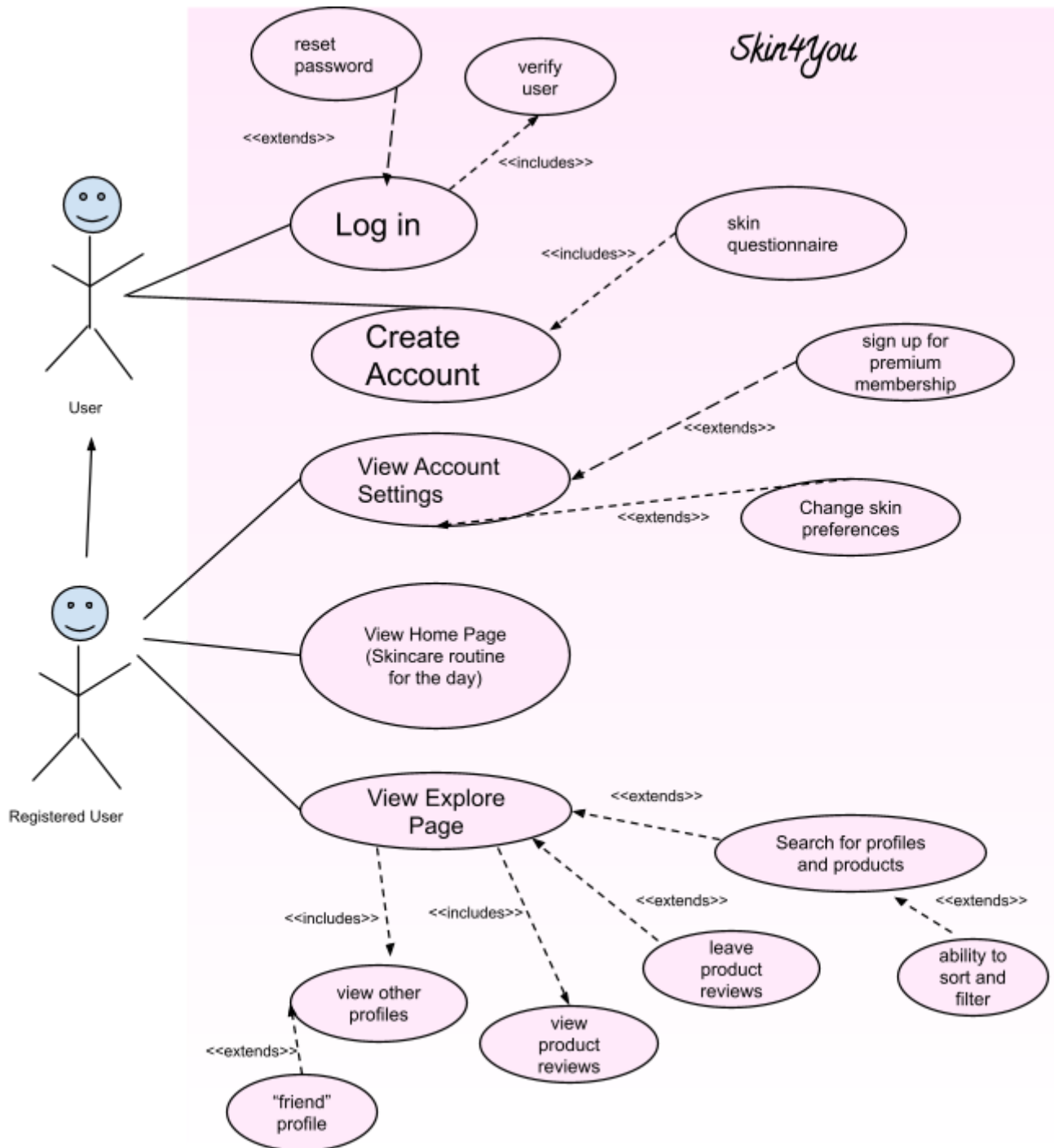
2.7.1 Design and Requirement Schedule

Table 28: Design and Requirement Schedule

Title	Design and Requirement Schedule
Description	Skin4You must be completed by the end of the semester.
Priority	0

3. Requirements Modeling

3.1.1 System Use Case Diagram



4. Evolutionary Requirements

4.1 Functional Requirements

4.1.1 Daily Reminders

Table 29: Daily Reminders

Title	Daily reminders
Description	Users will receive daily reminders at certain times throughout the day reminding them to complete specific skin care habits
Priority	4
Precondition(s)	User confirms that they would like to receive daily reminders
Postconditions(s)	Users can choose which types of messages they would like to receive and at what times depending on their schedule
Use Case Diagram	N/A

4.2 Non-Functional Requirements

4.2.1 System Capacity

Table 30: System Capacity

Title	System Capacity
Description	System should be able to handle 0.1 million users simultaneously
Priority	0
Applicable FR(s)	N/A