

Senior Project Defense

SkinSite

SP2024-12



Our Team



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- Problem
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- Objectives

2 Related Works

- Example of skincare websites
- Comparison of functions

3 Methodology

- Requirement Gathering
- System design

○ System Implementation

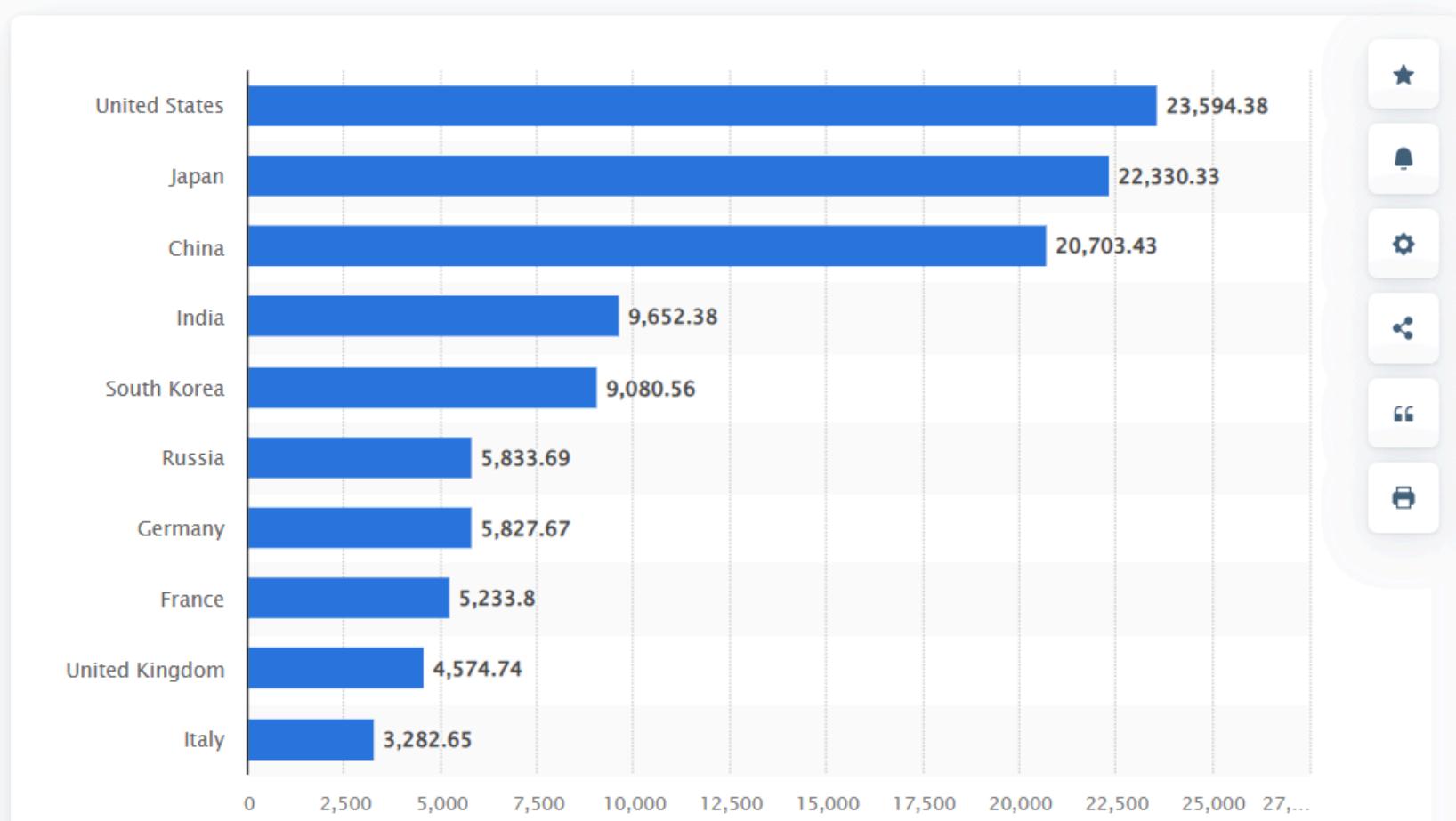
- System architecture
- Data collection
- System Demo

○ System testing

- Overview+Unit test
- System integration

4 Conclusion

Revenue of the global skin care market in 2023, by country (in million U.S. dollars)

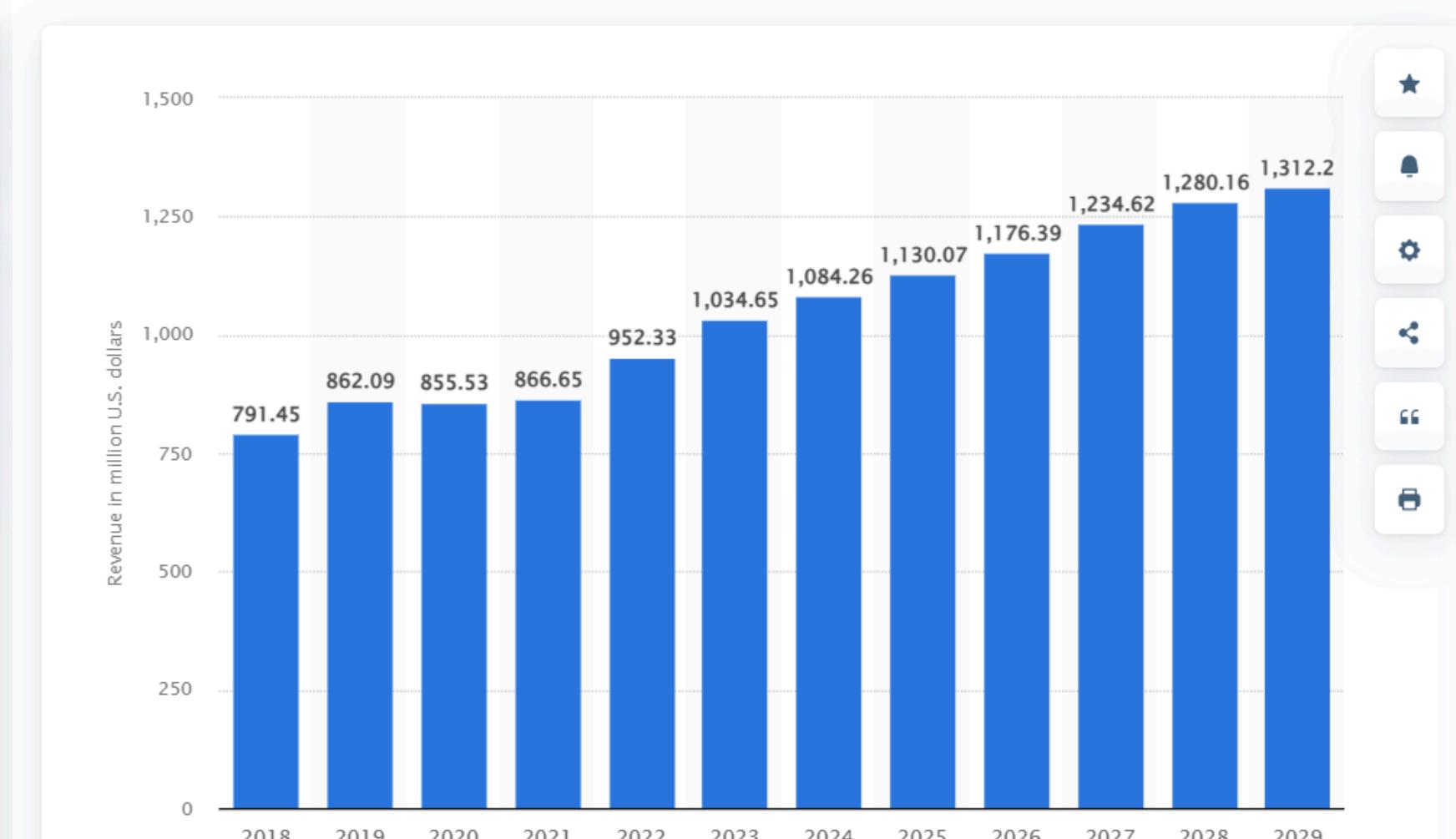


© Statista 2024

Show source

[Additional Information](#)

Revenue of the skin care market in Thailand from 2018 to 2029 (in million U.S. dollars)

[Additional Information](#)

© Statista 2024

Show source

References

1. Department SR.. “Worldwide revenue of the skin care market by country in 2023”; <https://www.statista.com/forecasts/758611/revenue-of-the-skin-care-market-worldwide-by-country>.
2. Department SR.. “Revenue of the skin care market in Thailand from 2018 to 2029”; <https://www.statista.com/forecasts/1220299/thailand-revenue-skin-care-market>.



Motivation x |

Problem x

Objective x | +

01

Thai skincare products are still **underrepresented** both locally and internationally despite growing market value.

02

Poorly represented, Lack of detail, or Reliable information of product

03

Hard to access quality Thai product info → **low consumer trust.**



Motivation

x

|

Problem

x

Objective

x

+

01

To develop a Thai skincare brand website including various features

02

To understand the needs of users in feature and function

03

To develop a Thai skincare database



Introduction X |

Related Works X

Methodology X | +

RELATED WORK



Example Websites

Table of Function

EWG

+

Konvy

CATEGORY BRAND 11.11 AFTERPARTY RECOMMEND LUXE

Search product or beauty deal

Account Cart

Skincare Makeup Baby & Mom Body & Personal care Covid-19 Fashion & Lifestyle Hair Heath & Wellness Household Perfume Toys & Games For Men

ลูกค้าใหม่
สนับสนุนราคากัน 10% + คูปองลด 20%

20% Off
Min. Spend B600
For New User
Get Now

All Products Valid for 7 days after collected

Rojukiss White Poreless 5X Intensive Mask 25ml B1 869

Leaders Snail Intense Plus Mask 25ml B1 849

Konvy Portable Soft Toothbrush With Protect... B1 899

Konvy Portable Air Cushion Folding Comb #Pink B1 899

Konvy Mouse Pad Random 1pc #Rectangle B1 859

Research
11 websites

Konvy

BEAUTRIUM

≡ Search

Sale up to 80%
Buy 1 get 1
Voucher
BEAUTRIUM Exclusive Edition
Korea Makeup
Eyebrow Pencil
Sunscreen
Makeup Remover

Mask
Derma
Perfume
Hair Care
Supplement
Gadget
Men
Acne Care

FLASH SALE

05 : 10 : 09 : 54
DAYS HOURS MINUTES SECONDS

Beautrium

EWG's Skin Deep®

GET UPDATES DONATE

Your guide to safer personal care products

Backed by science. Designed for you. Learn what's really in your personal care products.

Search for an ingredient, brand or product

Can't find your product? BUILD YOUR OWN REPORT

117,718 | 5,825 | 2,444

Products Brands EWG Verified® Products

EWG's Skin Deep

skinsort

Find products, brands, and more

Explore Tools Learn Get the app Log In

Try our other tools

- Ingredient Checker Analyze the ingredients in any cosmetic product
- Routine Creator Design your step-by-step skincare routine
- Compare Products Compare any two cosmetic products
- Skincare Dupes Find dupes for any skincare product
- Fungal Acne Checker Check if a product contains fungal acne triggers
- Ingredients Dictionary Learn more about over 27,000 cosmetic ingredients

Skincare Products

Explore the top with detailed ingredient breakdowns, usage guidelines, and reviews from skincare lovers like you.

People often look for...
Cleansers → Fungal Acne Safe Products →

Holy grails Trending Hydrating Oil-control Soothing Nourish

Category Preference Ingredients Good for

SKIN1004 Madagascar Centella Ampoule ★ 4.0 - Ampoule - Korean - \$11.94 vegan and cruelty-free ampoule that contains 7 ingredients.

Details

Track your products and build your routine with SkinSort.
Get started - it's free!

SkinSort

Comparison Function Table

Functions	Features	Website										
		1	2	3	4	5	6	7	8	9	10	11
Search	Text	Brand	●	●	●	●	●	●	●	●	●	●
		Product Name	●	●	○	●	●	●	●	●	●	●
		Ingredient Concern		○	○	○	○	○				○
		Ingredient		●	○	○						●
		Benefit / Product Goal	○	○	○	○	○	○				○
	Filter	1 Filter	●		●			○	●	●		
		More than 1			●		●	●	●	●		●
	Recommendations		●	●	●	●			○	○		
	Sorting		●	●	●	●	●	●	●	●	●	●
	Wishlist			●	●	●	●	●	●	●	●	●
Skin Routine Set												●
Review		●	●	●			●	●		●	●	
Product Comparison					●			●	●			●
User Account Management		●	●	●	●			●		●	●	

Website

1. Cosmenet
2. Konvy
3. Jeban
4. Beautrium
5. Shopee
6. Lazada
7. Incidecoder
8. Skincarisma
9. EWG's Skin Deep
10. CosDNA
11. SkinSort

● = Available

○ = Available with issues

Comparison Function Table

Functions	Features	Website										
		1	2	3	4	5	6	7	8	9	10	11
Search	Text	Brand	●	●	●	●	●	●	●	●	●	●
		Product Name	●	●	○	●	●	●	●	●	●	●
		Ingredient Concern	○	○	○	○	○	○	○	○	○	○
		Ingredient	●	○	○	○	○	○	○	○	●	●
	Filter	Benefit / Product Goal	○	○	○	○	○	○	○	○	○	○
		1 Filter	●	●	●	●	●	○	●	●	●	●
		More than 1	●	●	●	●	●	●	●	●	●	●
		Recommendations	●	●	●	●	●	●	○	○	●	●
User Interaction	Sorting	Wishlist	●	●	●	●	●	●	●	●	●	●
		Skin Routine Set	●	●	●	●	●	●	●	●	●	●
	Review	Review	●	●	●	●	●	●	●	●	●	●
		Product Comparison	●	●	●	●	●	●	●	●	●	●
	User Account Management	●	●	●	●	●	●	●	●	●	●	●

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Search	Brand	●	●	●	●	●	●	●	●	●	●	●
	Product Name	●	●	○	●	●	●	●	●	●	●	●
	Text	Ingredient Concern										
		●	○	○	○	○	○	○	○	○	○	○
		Ingredient										
		●	○	○	○	○	○	○	○	○	○	●
	Benefit / Product Goal	○	○	○	○	○	○	○	○	○	○	○
	Filter	1 Filter										
		●	●	●	●	●	●	○	●	●	●	●
	More than 1	●	●	●	●	●	●	●	●	●	●	●
	Recommendations	●	●	●	●	●	●	○	○	○	●	●
	Sorting	●	●	●	●	●	●	●	●	●	●	●
	Wishlist	●	●	●	●	●	●	●	●	●	●	●
	Skin Routine Set	●	●	●	●	●	●	●	●	●	●	●
	Review	●	●	●	●	●	●	●	●	●	●	●
	Product Comparison	●	●	●	●	●	●	●	●	●	●	●
	User Account Management	●	●	●	●	●	●	●	●	●	●	●

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		Product Name	●	●	○	●	●	●	●	●	●	●	
		Ingredient Concern		○	○	○	○	○			○		
		Ingredient		●	○	○					●		
	Filter	Benefit / Product Goal	○	○	○	○	○	○			○		
		1 Filter	●		●			○	●	●			
		More than 1		●		●	●	●	●	●		●	
								○	○				
Recommendations		●	●	●	●								
Sorting		●	●	●	●	●	●		●	●	●	●	
Wishlist			●	●	●	●	●	●	●	●	●		
Skin Routine Set											●		
Review		●	●	●		●	●	●	●	●	●	●	
Product Comparison				●				●	●			●	
User Account Management		●	●	●	●			●	●	●	●		

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Search	Text	Brand	●	●	●	●	●	●	●	●	●	●
		Product Name	●	●	○	●	●	●	●	●	●	●
		Ingredient Concern		○	○	○	○	○				○
		Ingredient		●	○	○						●
		Benefit / Product Goal	○	○	○	○	○	○				○
	Filter	1 Filter	●		●			○	●	●		
		More than 1			●		●	●	●	●		●
	Recommendations		●	●	●	●			○	○		
	Sorting		●	●	●	●	●	●	●	●	●	●
	Wishlist			●	●	●	●	●	●	●	●	●
Skin Routine Set												●
Review		●	●	●			●	●		●	●	
Product Comparison					●			●	●			●
User Account Management		●	●	●	●			●	●	●	●	
Notify Skin Concern												

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Comparison Function Table

Functions	Features	Website											
		1	2	3	4	5	6	7	8	9	10	11	12
Search	Text	Brand	●	●	●	●	●	●	●	●	●	●	●
		Product Name	●	●	○	●	●	●	●	●	●	●	●
		Ingredient Concern		○	○	○	○	○			○		●
		Ingredient		●	○	○					●		●
		Benefit / Product Goal	○	○	○	○	○	○			○		●
	Filter	1 Filter	●		●			○	●	●			●
		More than 1			●		●	●	●	●	●		●
	Recommendations		●	●	●	●			○	○			●
	Sorting		●	●	●	●	●	●	●	●	●		●
	Wishlist			●	●	●	●	●	●	●	●		●
User Interaction	Skin Routine Set										●		●
	Review		●	●	●			●	●		●	●	●
	Product Comparison					●			●	●		●	●
	User Account Management		●	●	●	●			●	●	●		●
	Notify Skin Concern												●

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12. SkinSite

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Introduction x | Related Works x

Methodology x

+

METHODOLOGY

STEP

1

REQUIREMENT GATHERING

2

SYSTEM DESIGN

3

SYSTEM IMPLEMENTATION

4

SYSTEM TESTING

STEP

1

REQUIREMENT GATHERING

2

SYSTEM DESIGN

3

SYSTEM IMPLEMENTATION

4

SYSTEM TESTING

OBJECTIVE of Survey

- 1 **Demographic** Information about participants
- 2 **Thai Skincare Brand** Background and Interest in Thai Facial Skincare Product
- 3 **Features** Identify user problem and designed features on website



Requirement Gathering

x

| System design x | System Implement x

Period Survey

October 24 to November 5, 2024

Number of participants

124 participants

The screenshot shows a survey interface with the following details:

- Header: คำตอบ 124 ข้อ
- Buttons: + ดูในชีต, :, เปิดรับคำตอบ (disabled)
- Section 1: General Information
- Question 1: 1) Gender? (เพศ)
- Text: คำตอบ 124 ข้อ
- Other buttons: ข้อมูลสรุป, ค่าดำเนินการ, แยกรายการ, คัดลอกแผนภูมิ



Requirement Gathering x

| System design x | System Implement x

SEC

Demographic

Thai Skincare Brand

Features

Gender	Female	71.8 %
Age	18 years - 25 years	72.6 %
Occupation	Student	66.9 %
Monthly Salary	Less than 10,000 Baht	42.7 %



Requirement Gathering x

| System design x | System Implement x

SEC

Demographic

Thai Skincare Brand

Features

Problem in Purchasing Thai Facial Skincare Products



Misleading or **unclear** information

51.3 %



Non-official product & **Poor quality**

44.2 %



Lack of safety certifications

31 %



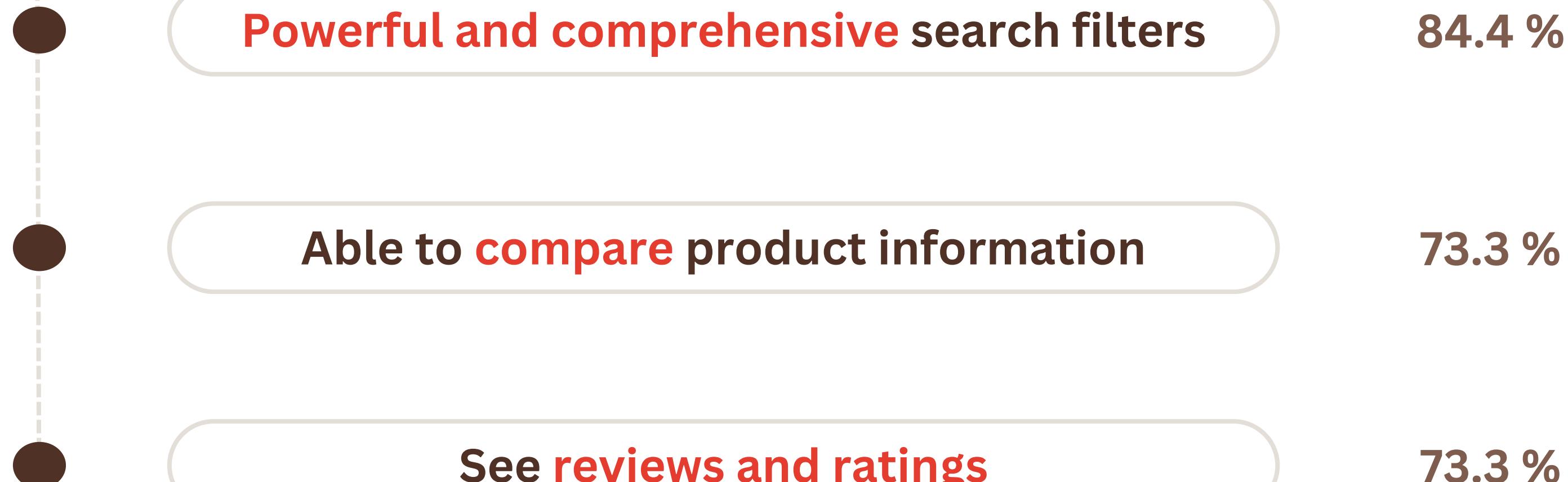
SEC

Demographic

Thai Skincare Brand

Features

Top Features Users Want



STEP

1

REQUIREMENT GATHERING



2

SYSTEM DESIGN

3

SYSTEM IMPLEMENTATION

4

SYSTEM TESTING

STEP

1

REQUIREMENT GATHERING

2

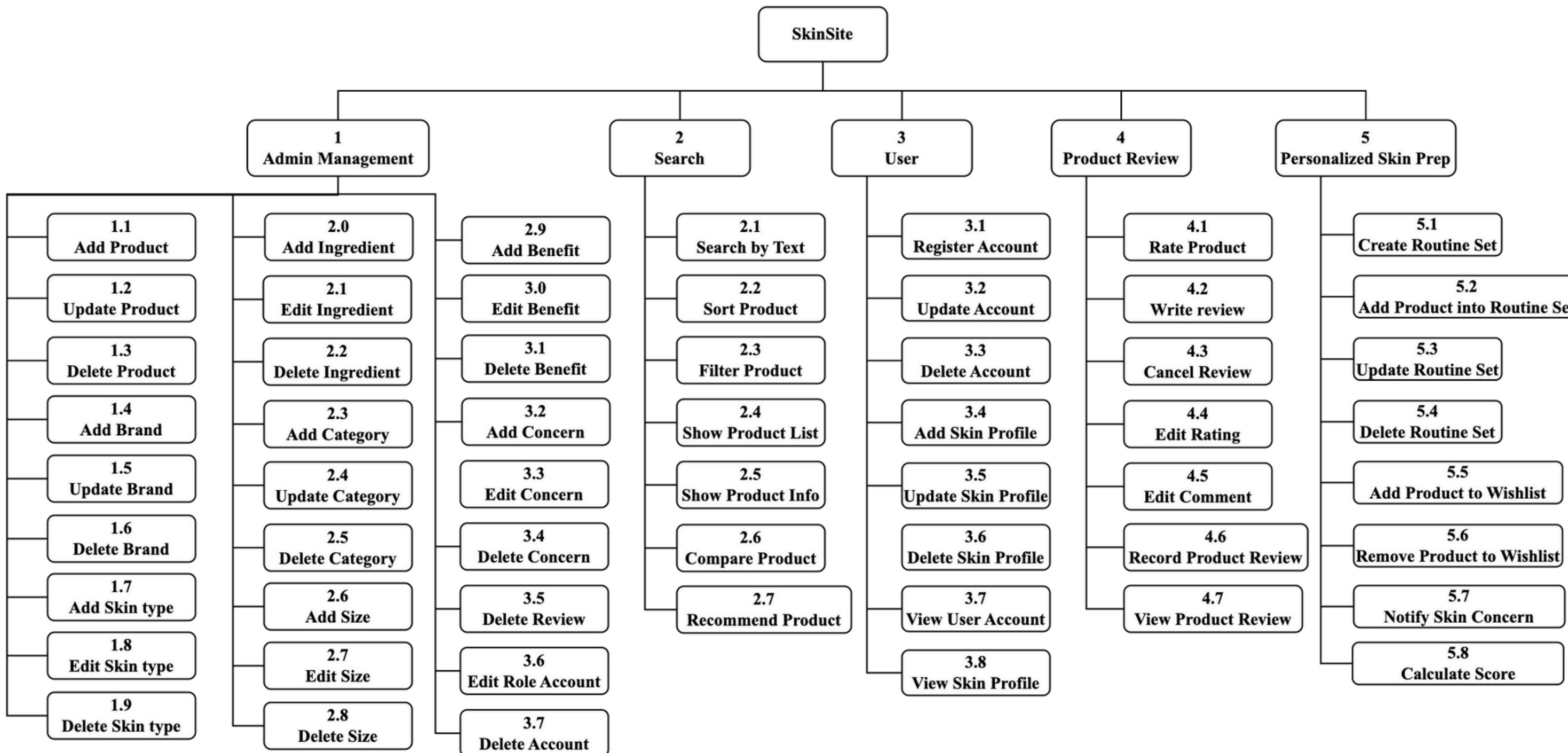
SYSTEM DESIGN

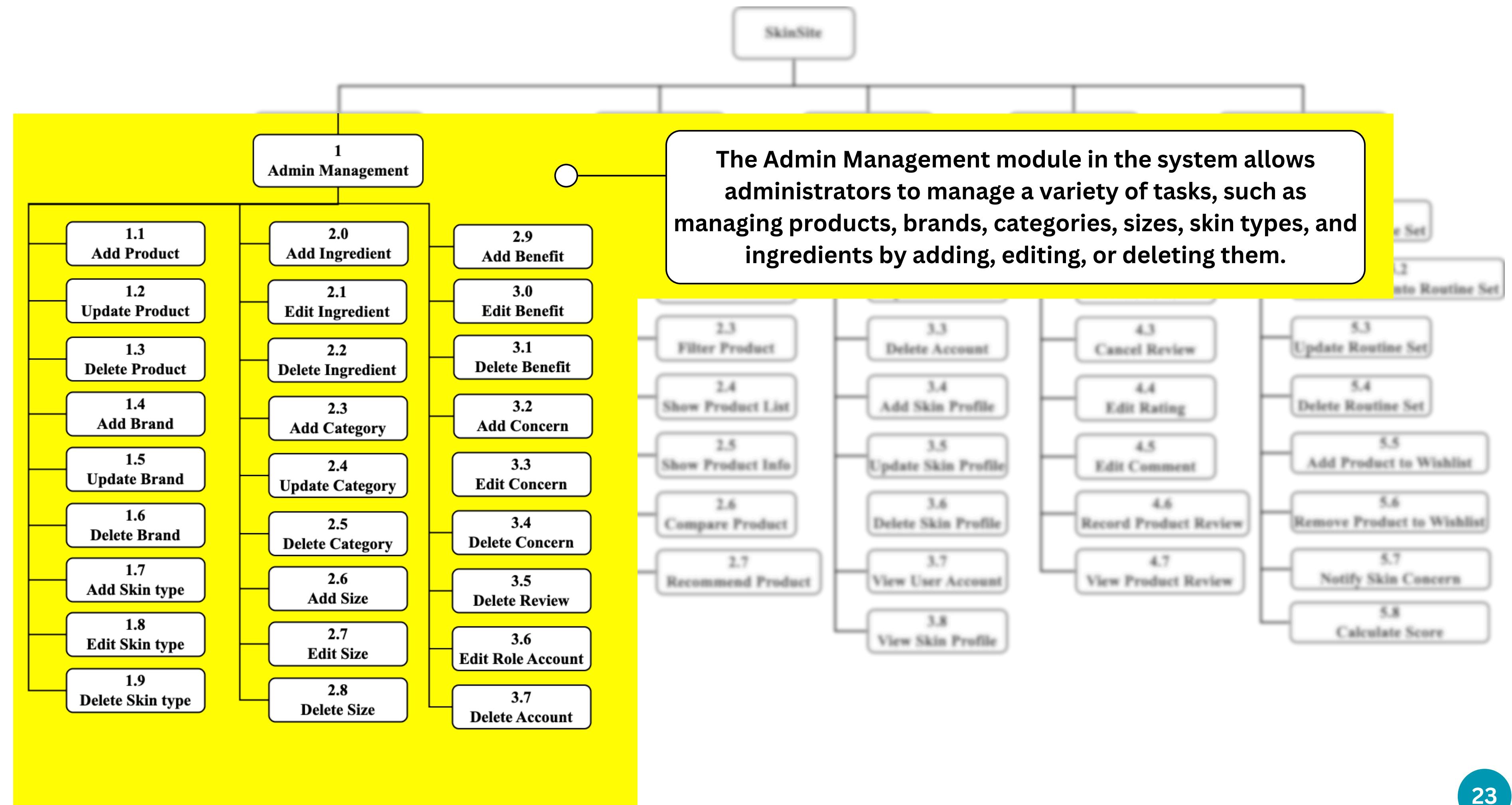
3

SYSTEM IMPLEMENTATION

4

SYSTEM TESTING

SECTION**Structure Chart****Design****ERD**





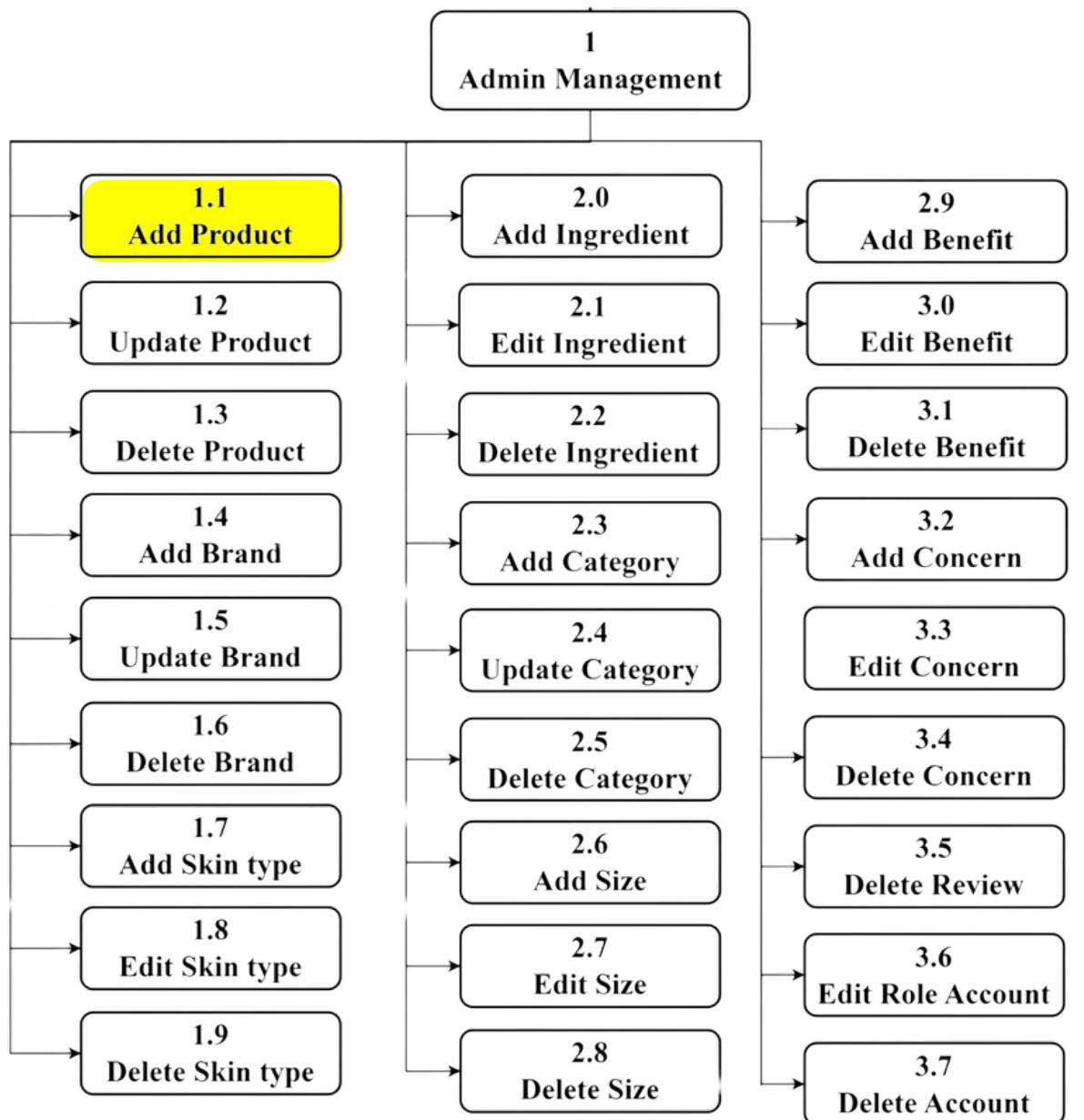
SECTION

Structure Chart

Design

ERD

Admin Management



Product Management

+Add

Q Search by ID or Name

Product	Brand	Category	Size	Price	Actions
PTH00001 4U2 HYALURONIC CLEANSING WATER	4u2	Cleansing	120 ml/g	B299.00	
PTH00002 4U2 GENTLE DEEP CLEANSING FOAM	4u2	Cleansing	120 ml/g	B299.00	
PTH00003 4U2 EYE AND LIP MAKEUP REMOVER	4u2	Cleansing	100 ml/g	B199.00	
PTH00004 4U2 SKIN CLEANSING SHEET	4u2	Cleansing	20 ml/g	B199.00	
PTH00005 4U2 BRIGHTENING SKIN ADVANCE SERUM	4u2	Serum	35 mL/g	B599.00	
PTH00006 4U2 EVERYDAY TONE UP UV GEL SPF50+ PA++++ 01	4u2	Sunscreen	30 mL/g	B499.00	



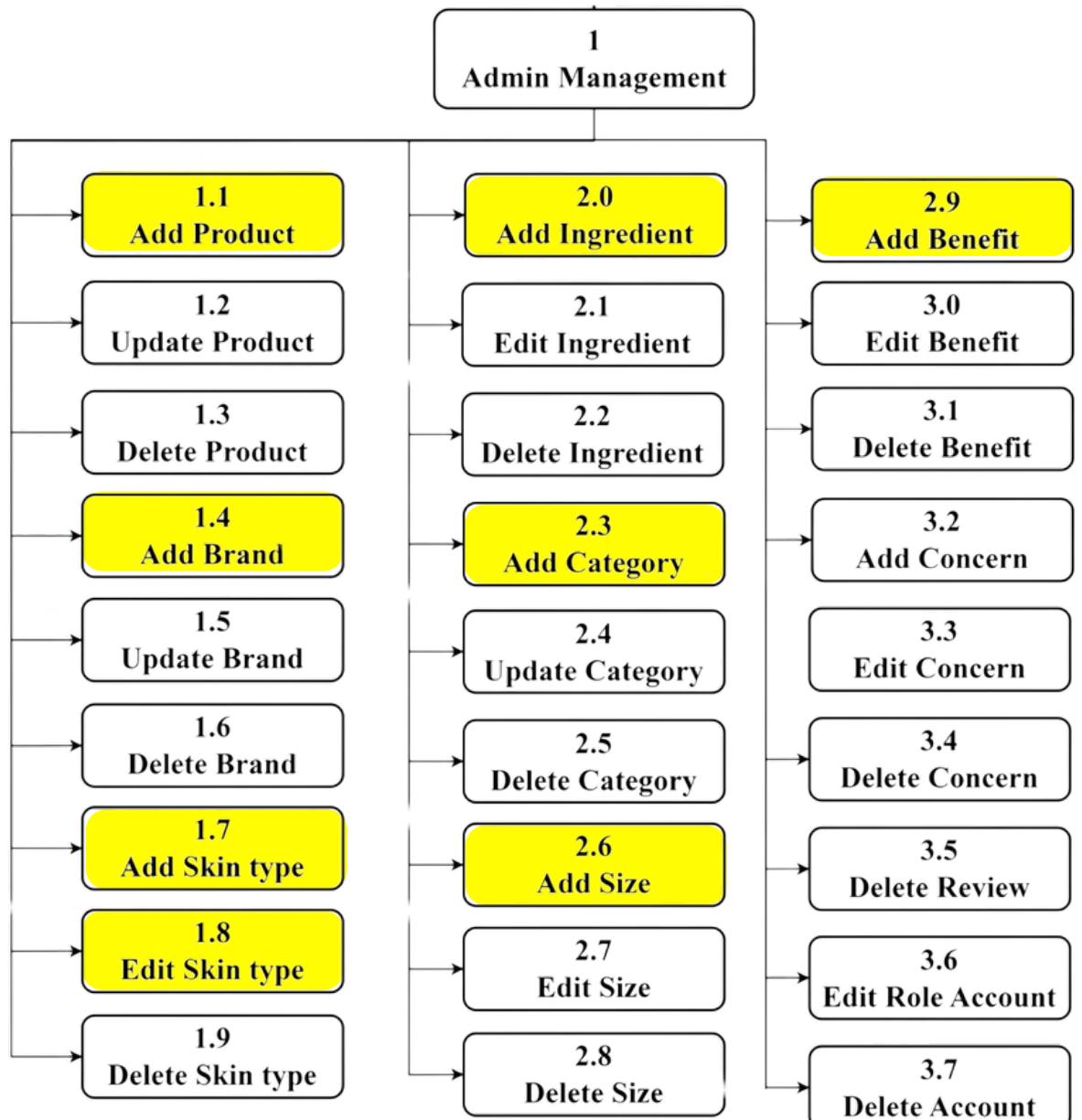
SECTION

Structure Chart

Design

ERD

Admin Management



Product Information

Product Name	<input type="text" value="Product Name"/>	Brand Name	<input type="text" value="Brand Name"/>
Category	<input type="text" value="Category"/>	Skin Type	<input type="text" value="Skin Type"/> i
PAO	<input type="text" value="e.g. 12 M or Not Available"/>		
Size	<input type="text" value="e.g. 50 ml"/>	FDA	<input type="text" value="XX-X-XXXXXXXXX or Not Available"/>
		Price	<input type="text" value="Price"/>

Product Description

Enter product details...

Usage

Enter usage instructions...

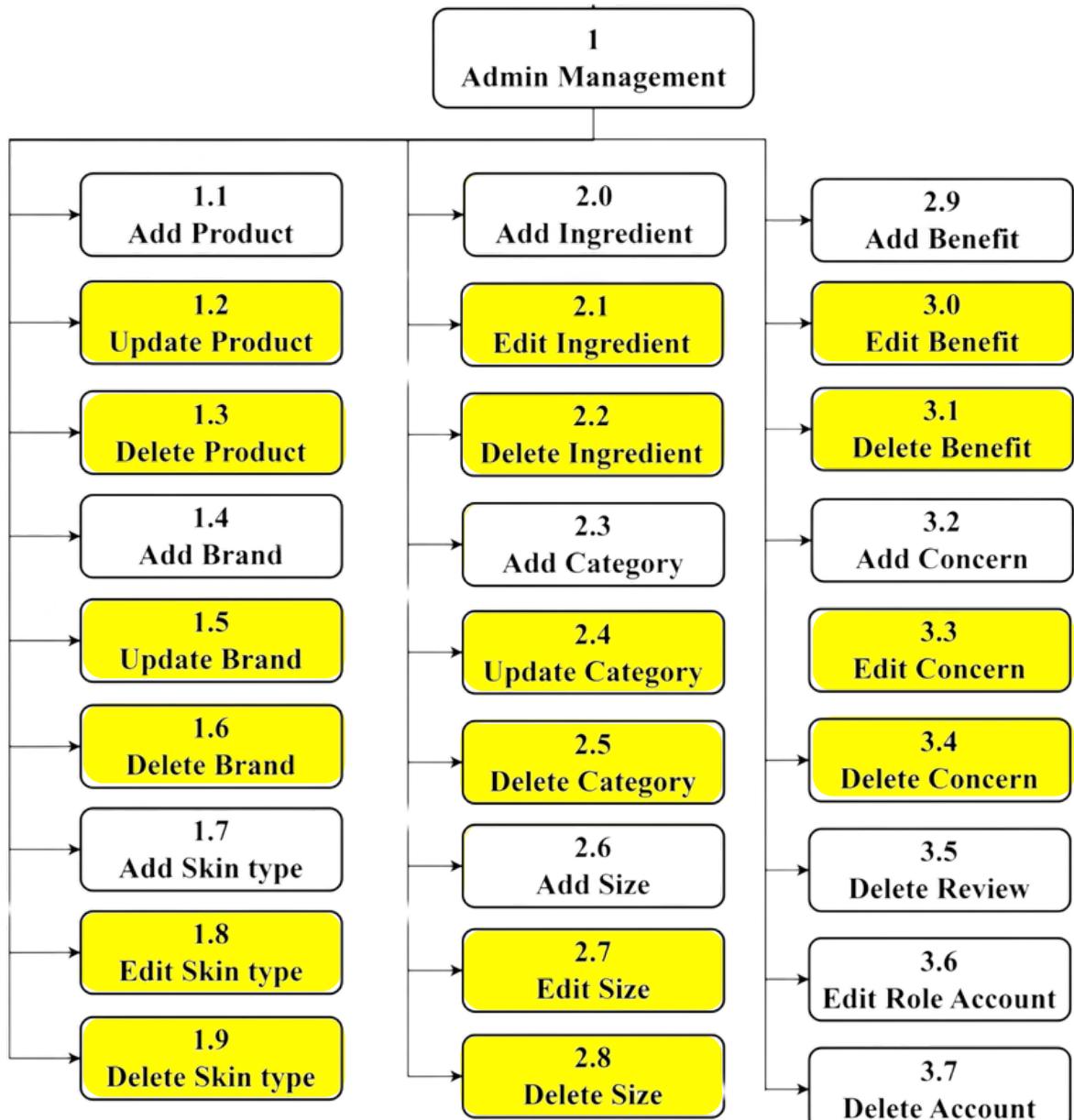
SECTION

Structure Chart

Design

ERD

Admin Management



Edit Products

Product Information

Product Name:	4U2 HYALURONIC CLEANSING WATER	Brand Name:	4U2
Category:	Cleansing	Skin Type:	Combination - Dry - Normal - Oily - Sensitive - Type and press Enter or click Add <input type="button" value="Add"/>
P/D:	Not Available	PA:	10.1 450003888
Size:	120 ml	Price:	288.00

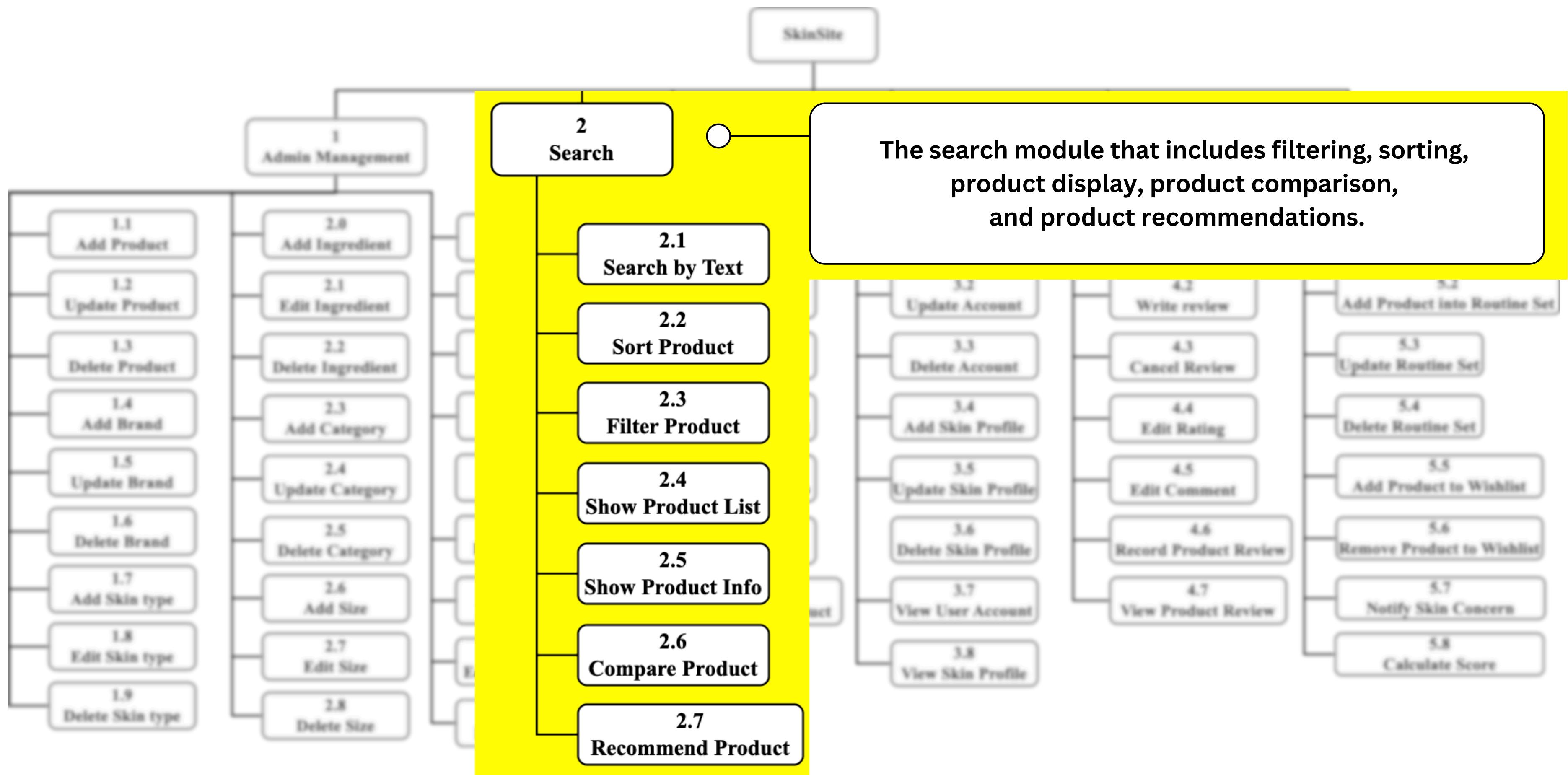
Ingredients:

Water (Aqua)	Cyclopentadecane	Propylene
Isohexadecane	Polysorbate 60	Caprylic/Capric Triglyceride
Sodium Chloride	1,2-Hexanediol	Tocopheryl Acetate
Select Ingredient <input type="button" value="Add"/>		

Product Description:
Cleansing for removing makeup. Removes oil and dirt from the face and moisturizes the skin with gentle, non-irritating, does not dry out the skin, suitable for all skin types.

Usage:
Dip the product into a cotton pad to cleanse makeup on the face.

Image:





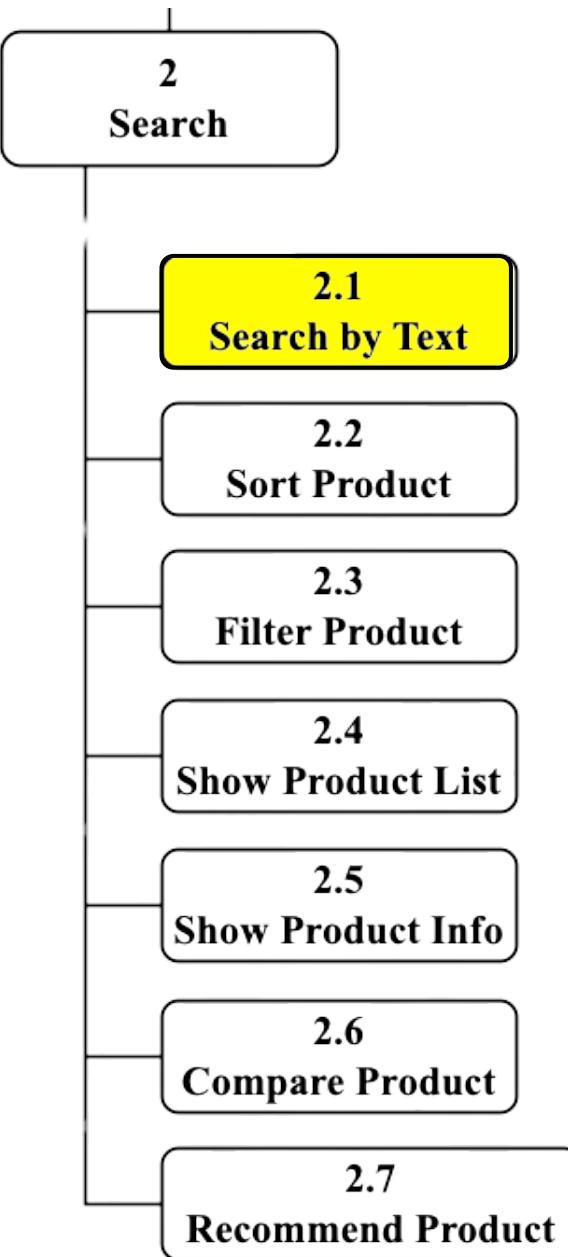
SECTION

Structure Chart

Design

ERD

Search Page



The screenshot displays a web-based product search interface. At the top, there are navigation links: HOME, SEARCH, and COMPARE. On the right side, there are links for ABOUT, CONTACT, and a user icon. The main search area features a search bar with the text '4u2' and a magnifying glass icon. Below the search bar, there are five filter dropdowns labeled: CATEGORY, SKIN TYPE, PREFERENCE CONCERN, BRAND, and BENEFIT. To the right of these filters, a section titled 'Your Filters:' shows a dropdown menu set to 'Sort by: Name: A to Z'. The results section lists three products:

- 4U2 BRIGHTENING SKIN ADVANCE SERUM**
 A lightweight serum that boosts clear skin to add moisture to the skin before applying makeup. It helps the skin glow, looks healthy and balances the skin before applying makeup. It makes the skin soft and helps the makeup last all day long.
 599.00 THB
 ★ 5.0 (4 reviews)
- 4U2 EVERYDAY TONE UP UV GEL SPF50+ PA++++ 01**
 Facial sun protection product from 4U2, white gel texture. Suitable for all skin tones. Helps adjust the skin to look radiant. With the Hybrid Sunscreen feature that can reflect and absorb UV rays in one step. Does not contain ingredients that harm corals.
 499.00 THB
 ★ 4.9 (15 reviews)
- 4U2 EVERYDAY TONE UP UV GEL SPF50+ PA++++ 02**

Each product listing includes a small thumbnail image, the product name, a brief description, the price, and the average rating with the number of reviews. There are also warning and bookmark icons next to each product entry.



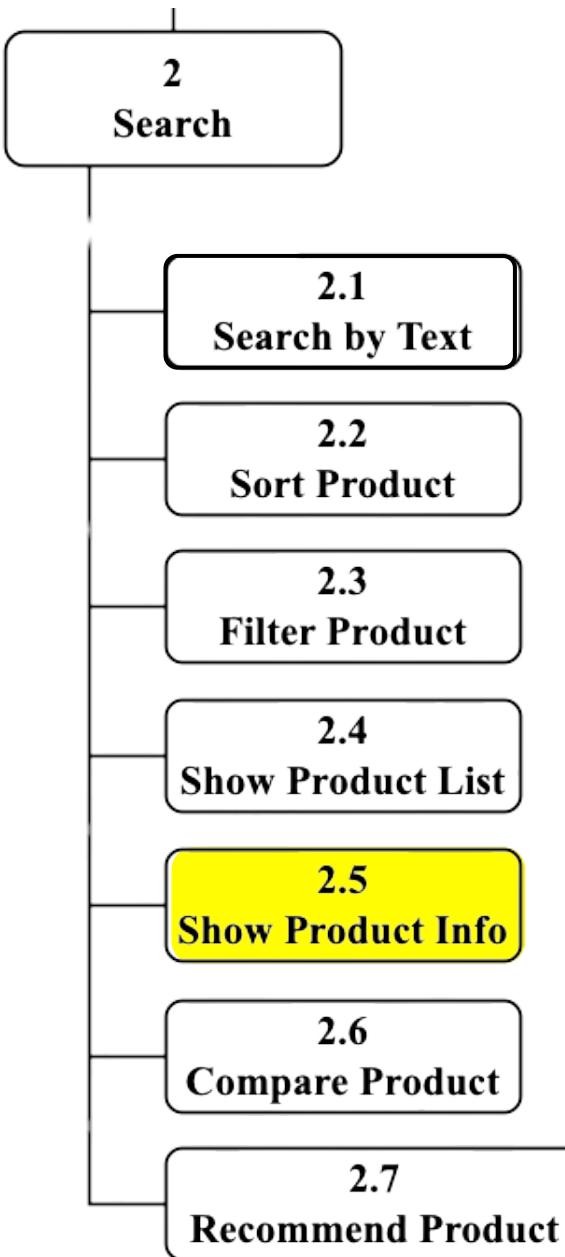
SECTION

Structure Chart

Design

ERD

Search Page



- This product is safe from: Paraben Free
- Contains ingredients you're allergic to: Cyclopentasiloxane



4u2

4U2 EYE AND LIP MAKEUP REMOVER

Cleansing

4.7

13

B

★★★★★

Reviews

Score: 61%

199.00 ₦

Size: 100 ml/g

+ Compare

Add to Wishlist

Product Information

Product Detail

Rating & Reviews 13

Description

A semi-water oil-based remover for removing waterproof makeup. Easy to wipe off, gentle, does not irritate the eyes, mouth, and does not leave excess oil.

Concern

Paraben Free

Alcohol Free

Fragrance Free

Vegan

Benefit



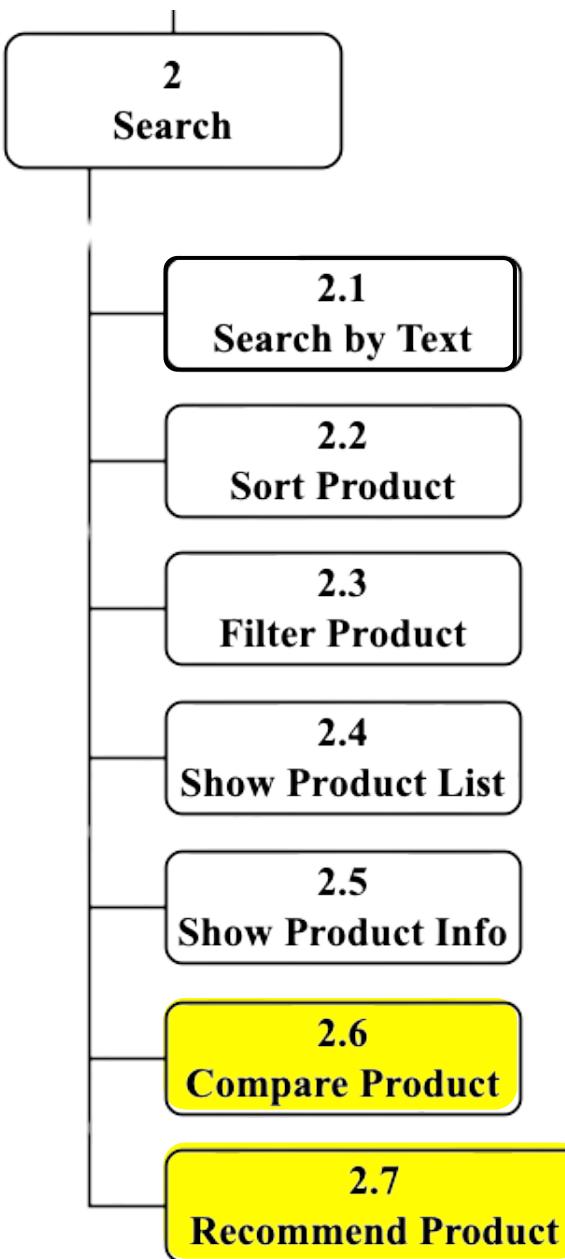
SECTION

Structure Chart

Design

ERD

Compare Page

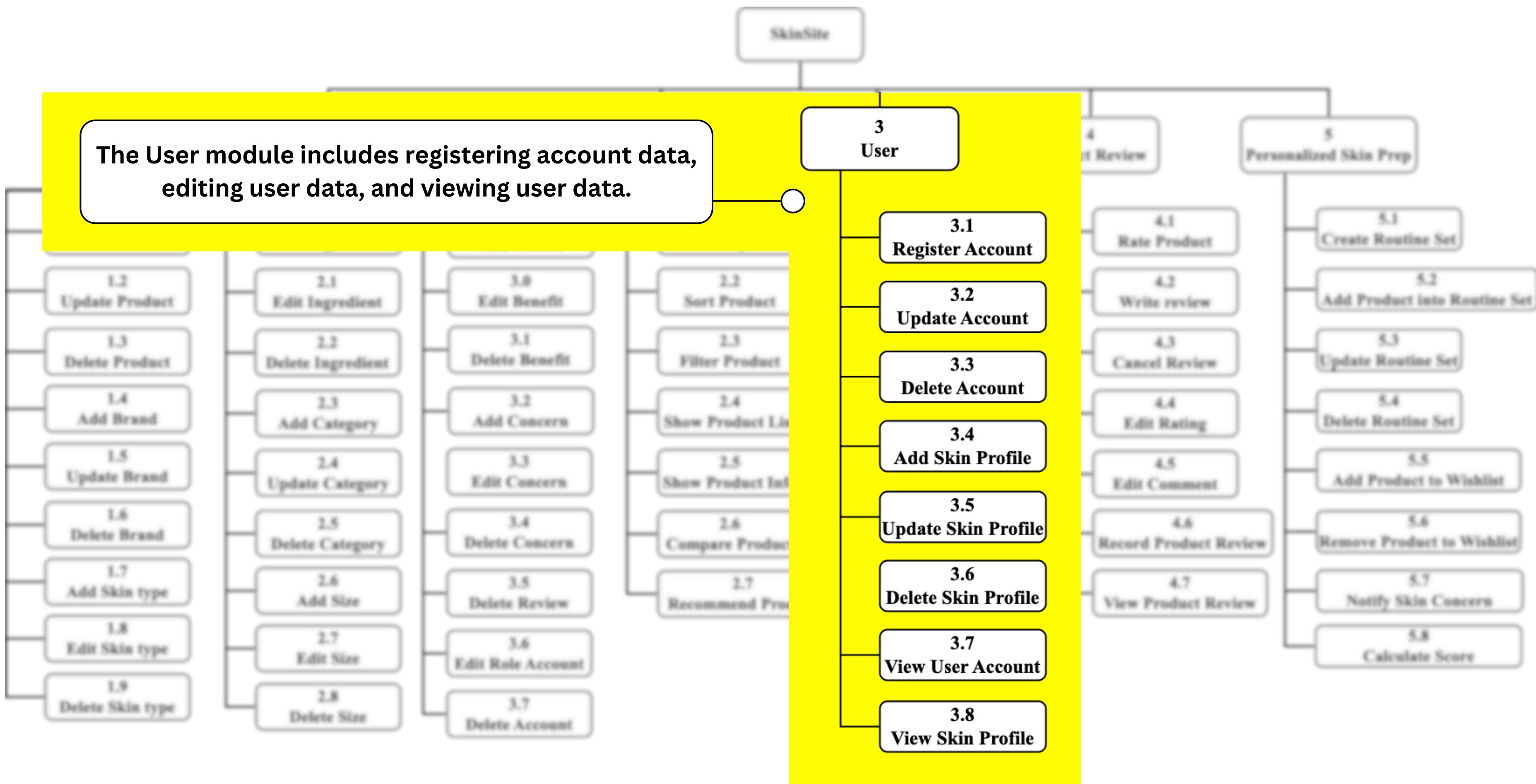


Comparison Results

Product	Category	Benefits	Score
BYBO Soft & Gentle Micellar Cleansing Pad	Cleansing	AntiAging	61% [B]
FYNE Gentle Synthetic Cleansing Oil			62% [B]

Similar Products You Might Like in Cleansing

Product	Category	Benefits	Score
Fundamental SKIN FUNDAMENTAL CLEAN...	Cleansing	AntiAging	4 matching benefits8 matching ingredients
Fundamental SKIN FUNDAMENTAL ACNIC...	Cleansing	AntiAging	4 matching benefits7 matching ingredients
4U2 4U2 GENTLE DEEP CLE...	Cleansing	AntiAging	4 matching benefits9 matching ingredients
4U2 EYE AND LIP MAK...	Cleansing	AntiAging	4 matching benefits9 matching ingredients
HARNN HARNN WHITE MULBE...	Cleansing	AntiAging	4 matching benefits4 matching ingredients





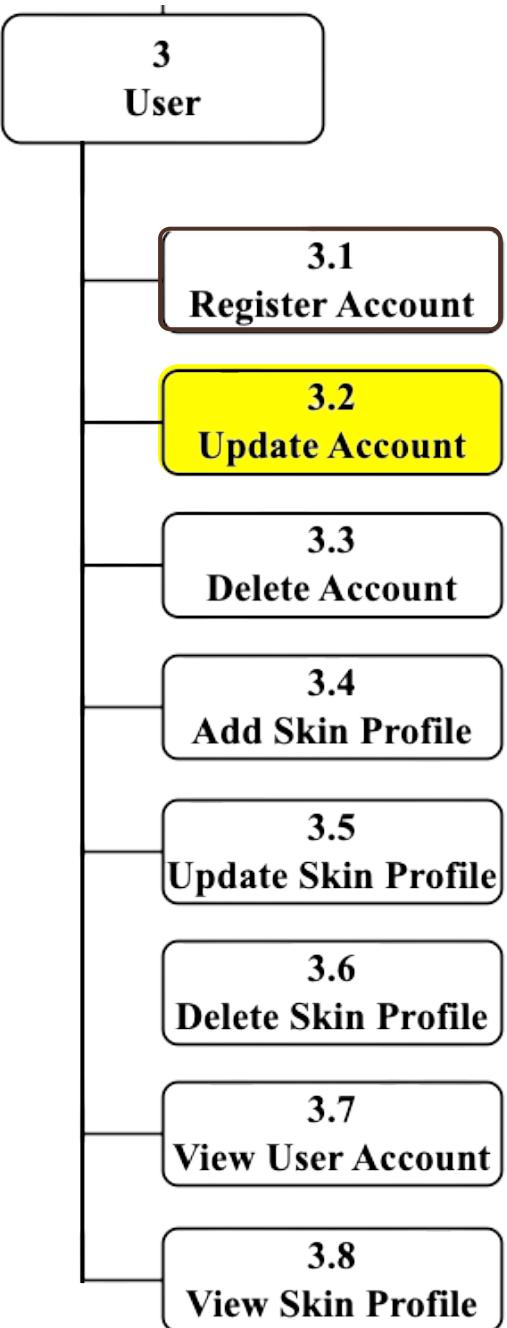
SECTION

Structure Chart

Design

ERD

User



My Account

Edit Profile

Username	jason
Email	forsaken@hotmail.com
Password	(hidden)
Gender	Male
Birthdate	07/18/2002

Update **Delete Account**

Skin Profile

Skin Goal

- UV Protection
- Oil control
- + (add button)

Preferences Concern

- Paraben Free
- ... (more button)

Skin Type

- Oily

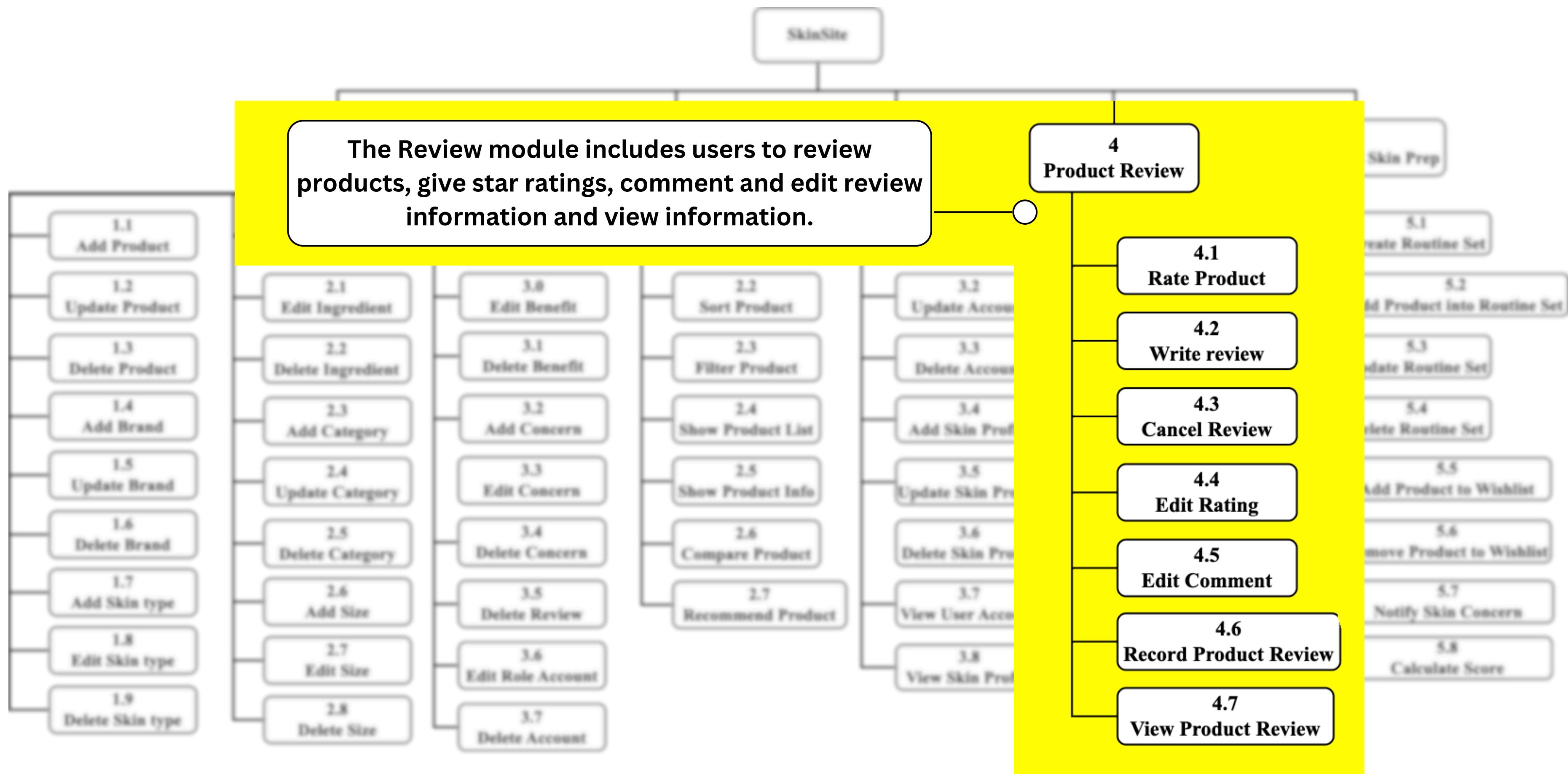
Allergy Ingredients

- Cyclopentasiloxane
- + (add button)

Favorite Brands

- 4u2
- BYBO

Select Brand Add





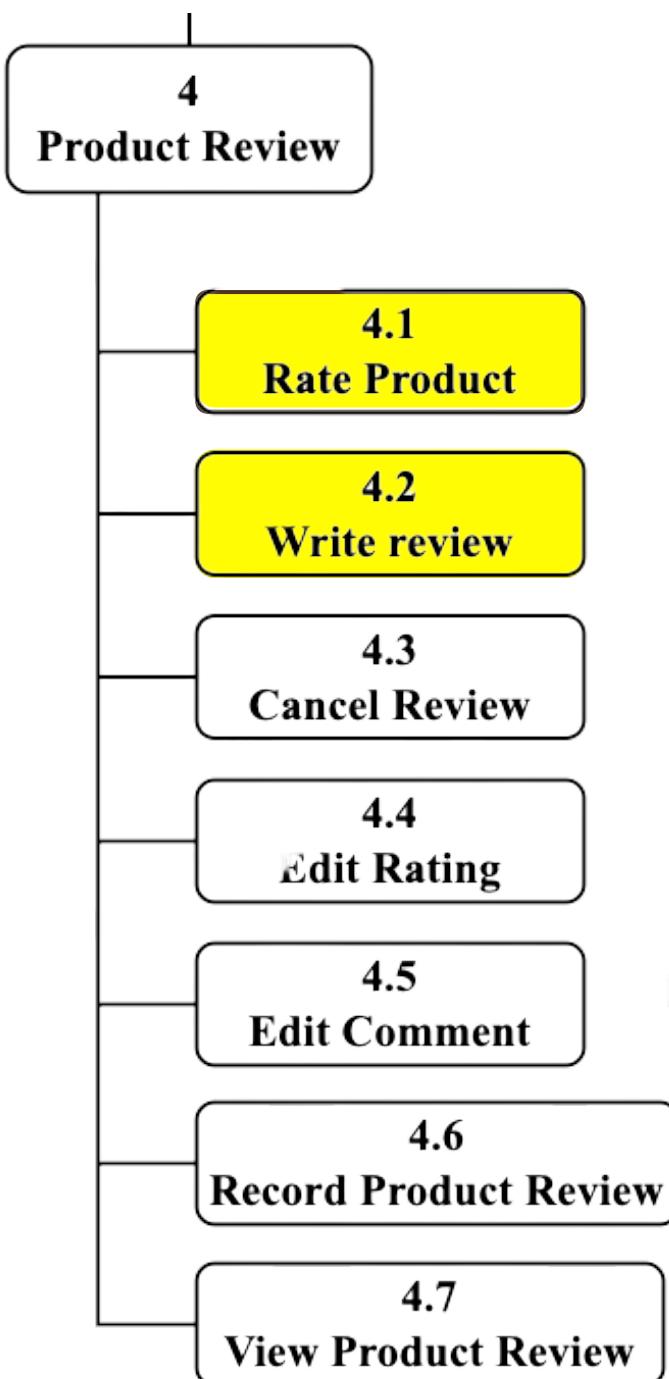
SECTION

Structure Chart

Design

ERD

Product Review

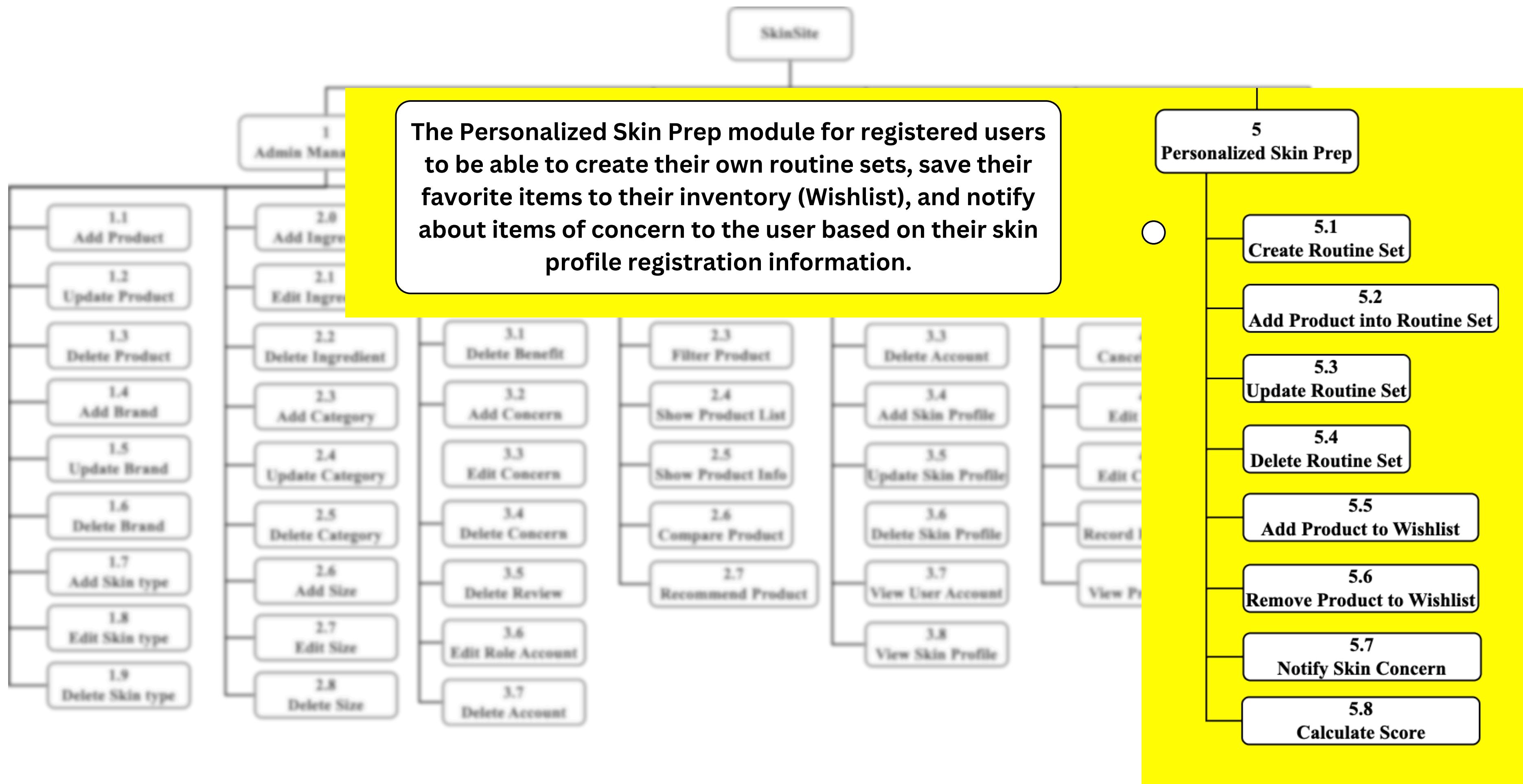


The screenshot shows a user interface for managing product reviews. At the top, there are navigation links: 'Product Detail' and 'Rating & Reviews (3)'. On the right, there is a button labeled 'Write a Review'.

The main area displays three existing reviews:

- Anthony Dry** (5 stars, 20/3/2568): Makeup adheres better to the skin, making it look even more beautiful. Leaves the face dewy and glowing!
- Michael Sensitive** (5 stars, 13/12/2567): Clear serum with a fast-absorbing texture and a light, delicate fragrance.
- David Dry** (5 stars, 19/11/2567): Fragrance-free, lightweight, and absorbs easily.

A modal window titled 'Write a Review' is open on the right side. It contains fields for 'Rating' (set to 5 stars) and 'Review' (with a dropdown menu showing options from 1 star to 5 stars). There is also a text input field for 'Write your review here...' and a 'Submit' button at the bottom.



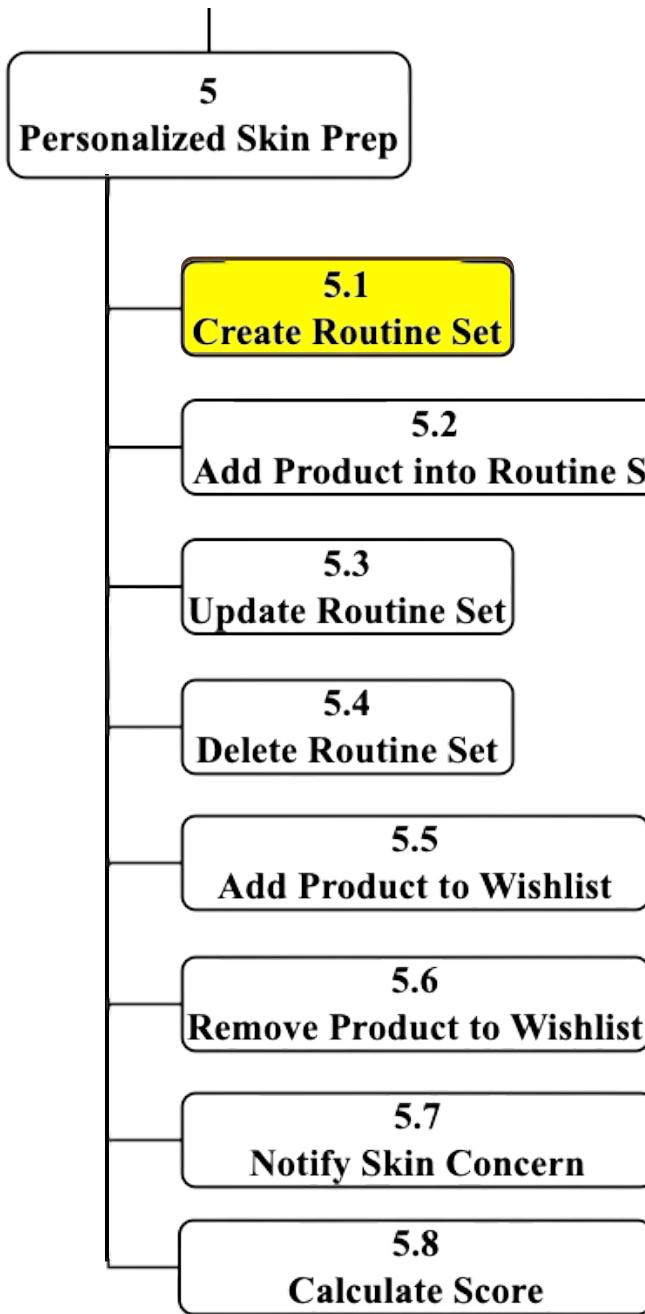
SECTION

Structure Chart

Design

ERD

Personalized Skin Prep



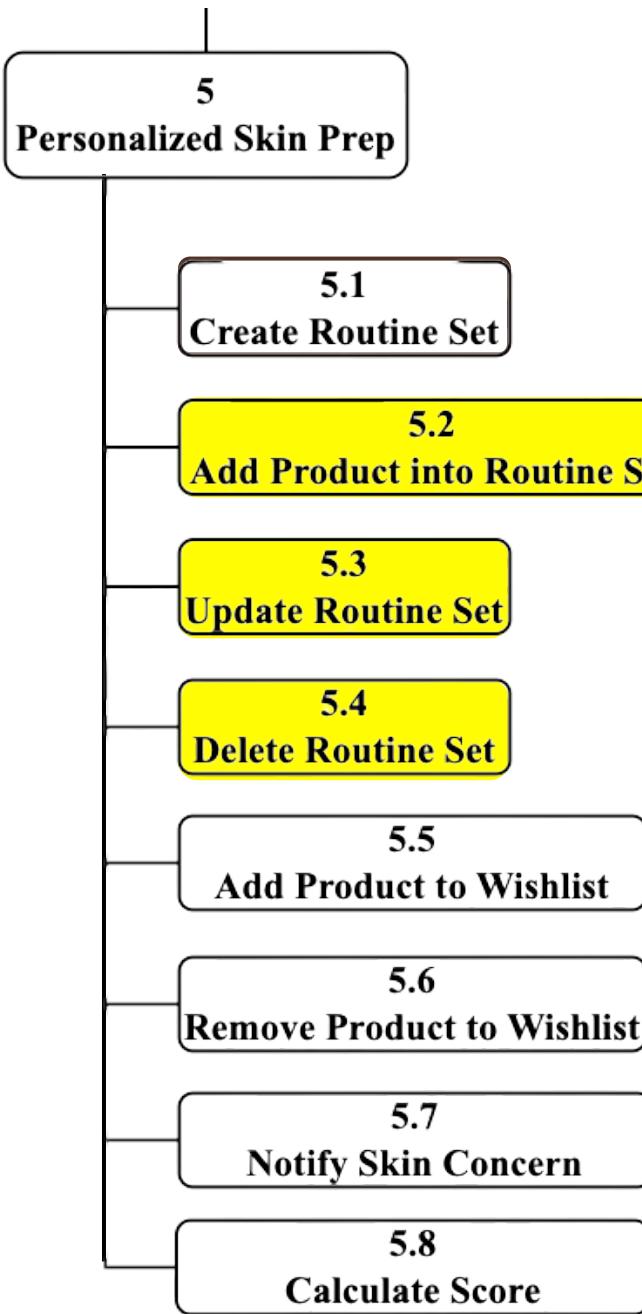
SECTION

Structure Chart

Design

ERD

Personalized Skin Prep



The screenshot displays a skincare product detail page. At the top, there is a navigation bar with links for HOME, SEARCH, COMPARE, Account, Reviews, Wishlist, My Skincare, and Logout. On the right side of the header are links for ABOUT, CONTACT, and a user icon. The main content area shows a "Routine Set Detail" for a "Day set" morning skincare routine. It lists three steps:

- Step 1:** Dr.PONG Gentle Balancing Facial Gel Cleanser - ครีมล้างหน้าสูตรอ่อนโยน เจลล้างหน้า สมุล้างหน้า+เสริมชั้นคิวแท็งแร้ง. Dr.PONG Gentle Balancing Facial Gel Cleanser is an extra gentle facial cleansing gel with Ceramides, Phytosphingosine and Fatty acids to strengthen the skin layer. Free from SLS, soap that destroys the skin layer. 400.00 THB.
- Step 2:** Gravich Retinol Concentrate Eye Cream. GRAVICH Retinol Concentrate Eye Cream is wrinkle reducing eye cream from the researched formula Until getting the perfect ratio specifically for Gravich Vitamin A in the form of Sensitive Retinol is extra gentle to use around the eyes With the new innovation! Double Encapsulate wraps important substances with a special structure, two layers, delivering concentrated efficiency directly to the point. Combined with Biomimetic Botox-Like Peptide, it reduces wrinkles. Together with the group that replenishes water for the skin such as Panthenol, Hyaluron...
- Step 3:** BEAUTY COTTAGE RED RICE III PLUS POWERFUL FOREVER YOUNG TONER ESSENCE. Red Rice iii Plus Powerful Forever Young Toner Essence Gently Tones, Cleanses And Moisturizes The Complexion. With Nanocube-V Technology To Effectively Help Delivers Essential Ingredients To The Skin, This High-Performance, Multi-Action Toner Dramatically Nourishes And Retains Moisture To The Skin. Rice iii Plus, A Combination Of Red Rice, Sprouted Brown Rice And Rice Callus Stem Cell Extracts, Enhances Skin's Youthfulness, While Diminishing Fine Lines, Signs Of Aging, Dark Spots And Freckles. Dermcom, An Extract Of Crocus Chrysanthus,...



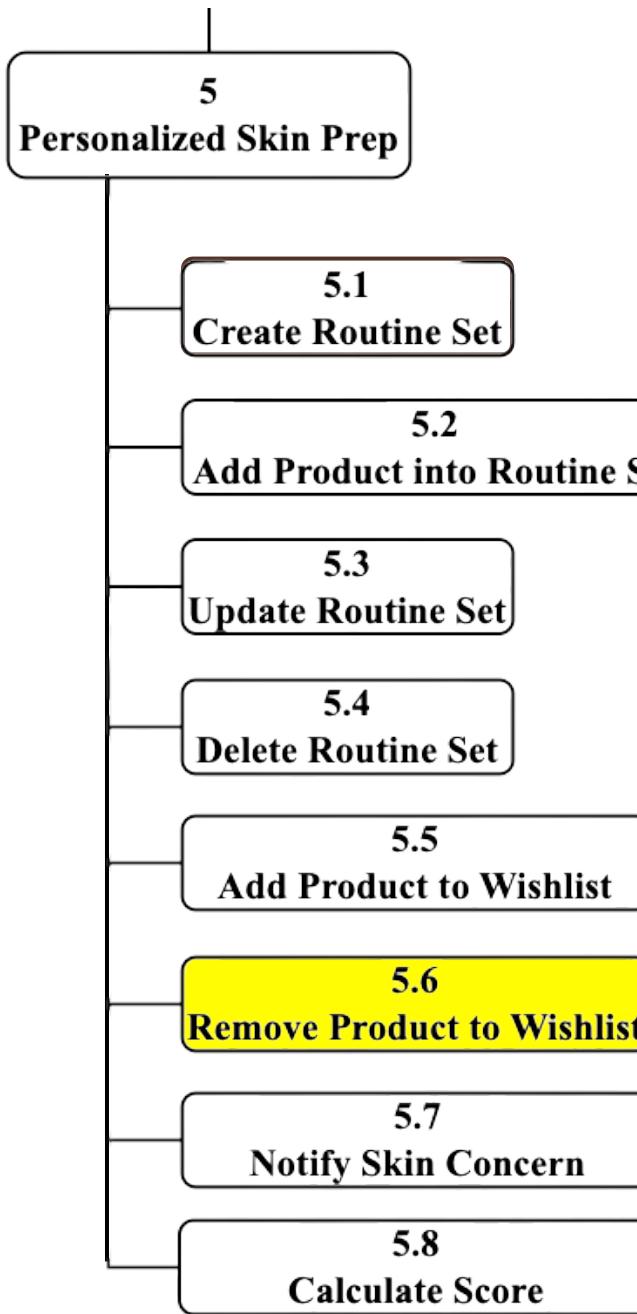
SECTION

Structure Chart

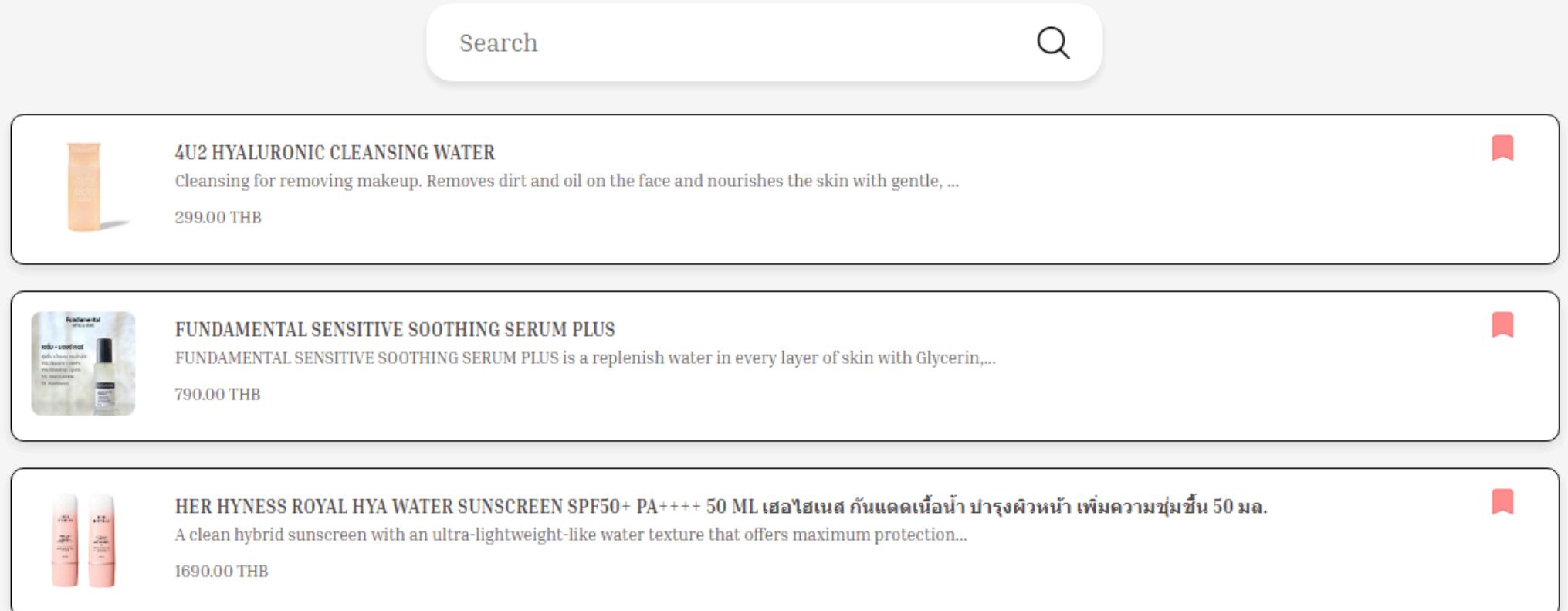
Design

ERD

Personalized Skin Prep



My Wishlist





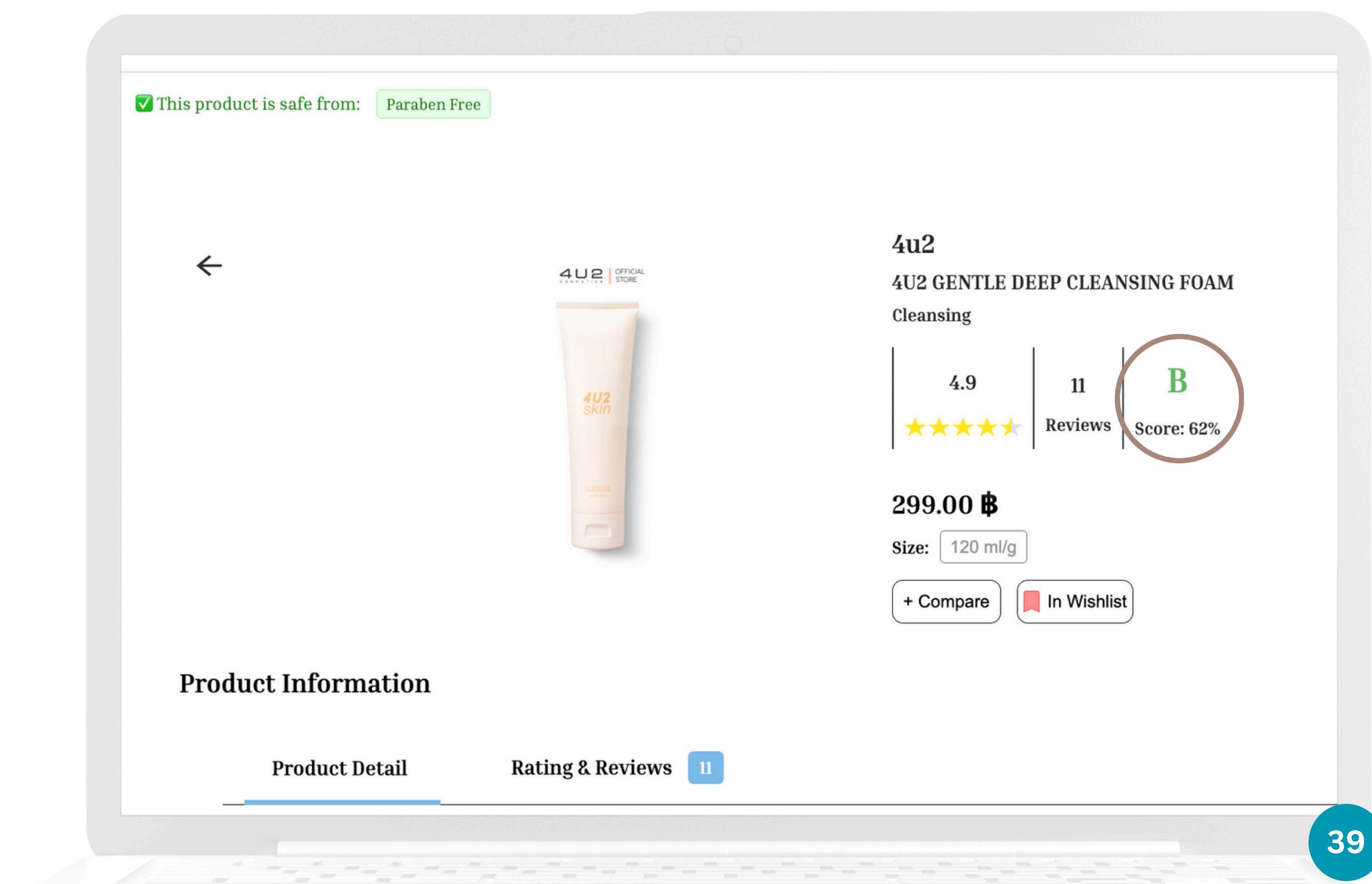
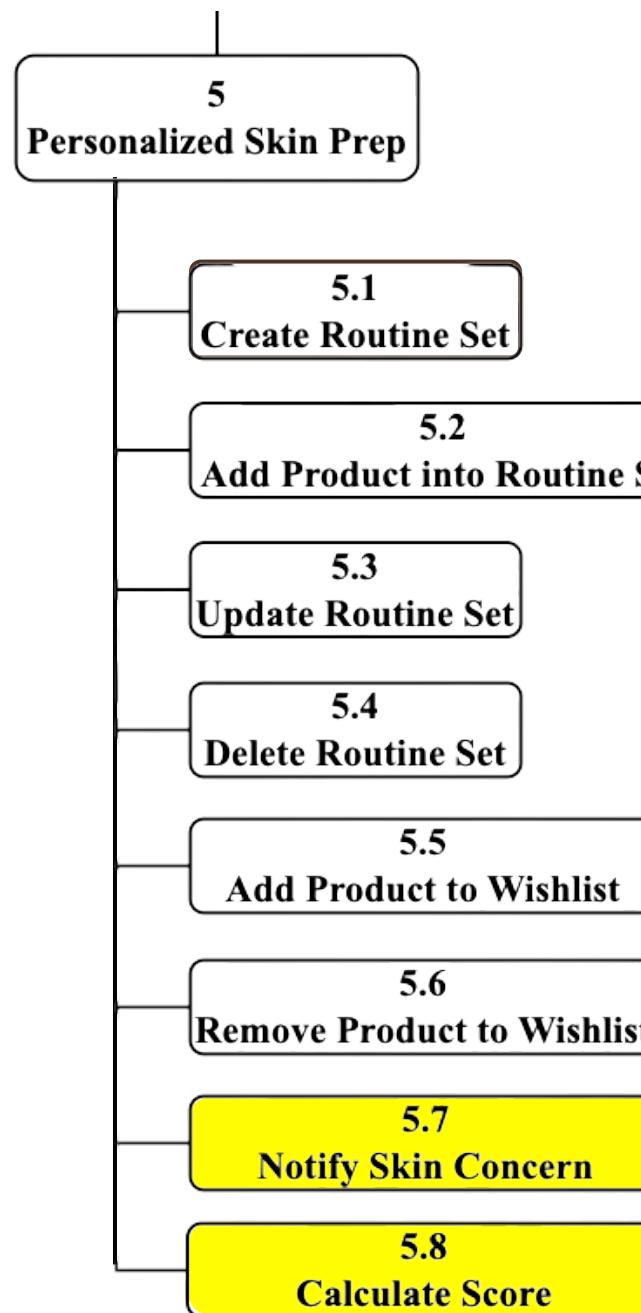
SECTION

Structure Chart

Design

ERD

Personalized Skin Prep





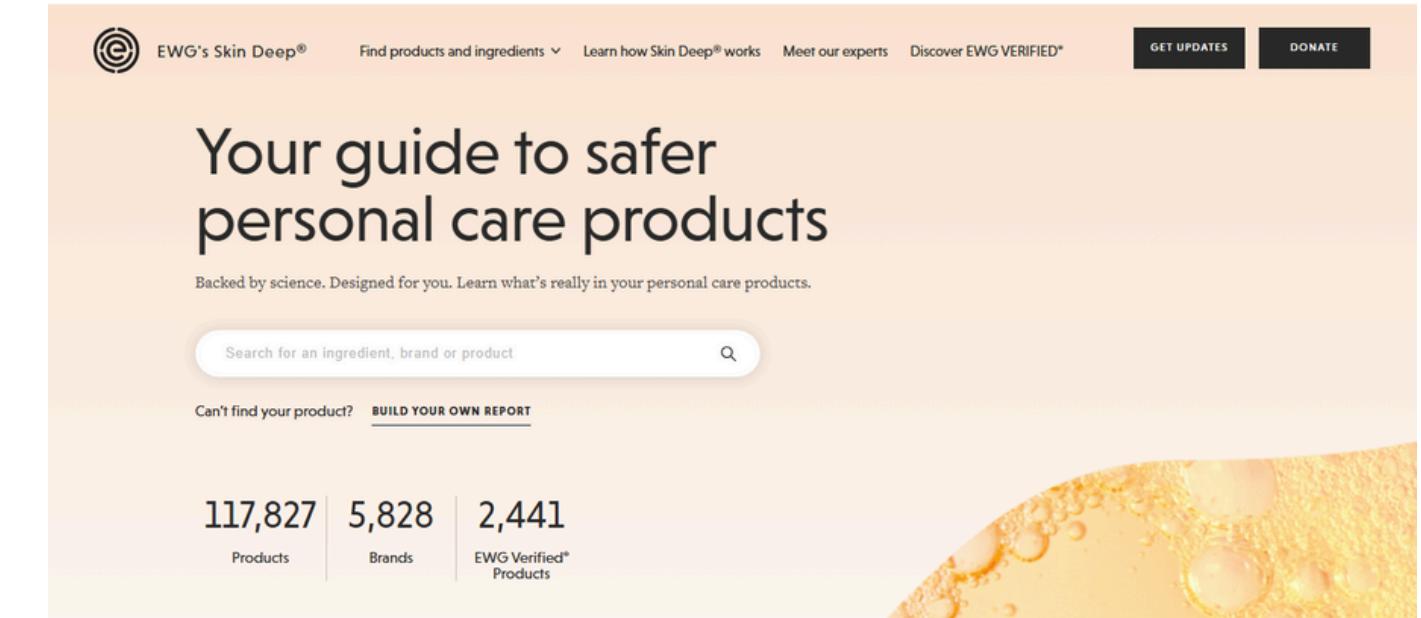
EWG

- Stands for Environmental Working Group
- Nonprofit organization promoting healthy living



EWG VERIFIED® Mark

- Highest standard of safety
- Products avoid harmful chemicals
- Disclose ingredients (including fragrance) on the label
- Verified by EWG scientists
- Ultimate assurance of safety and transparency



Reference:

1. Group EW. "Understanding Skin Deep® ratings || Skin Deep® Cosmetics Database"; 2008, https://www.ewg.org/skindeep/understanding_skin_deep_ratings/.

EWG Rating Systems

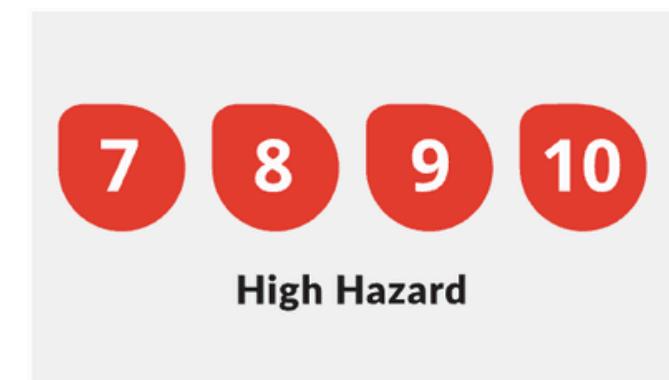
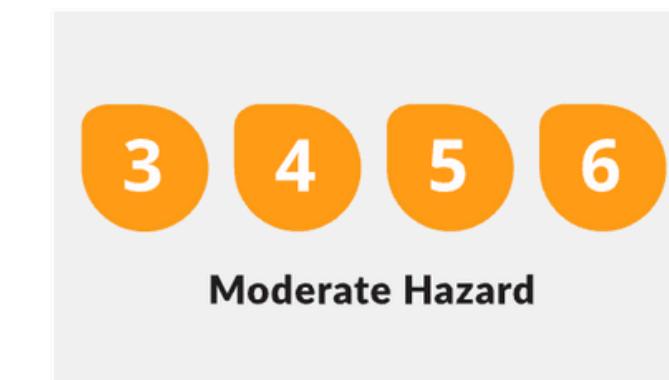
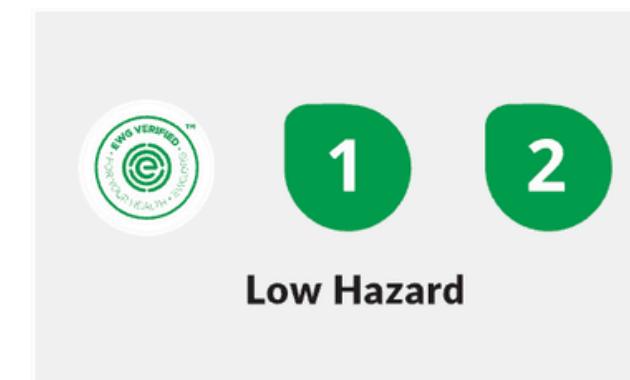
Hazard Score (1-10)

- Lower score = less risk
- Higher score = high risk

Hazard Score



Best



Worst

Data Availability

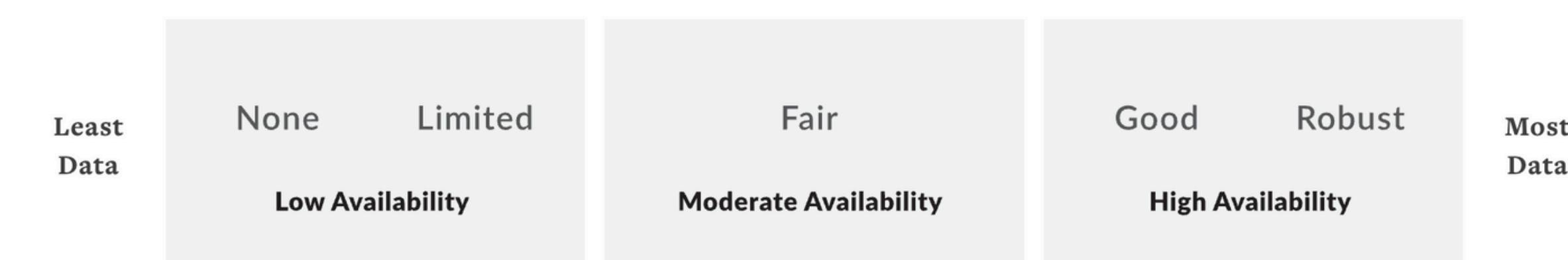
EWG Rating Systems

Hazard Score (1-10)

Data Availability

- Measures the level of scientific research available.
- Categories: None, Limited, Fair, Good, Robust.

Data Availability



How to Calculate Score on SkinSite



Risk of using ingredients (EWG)



Rating of data availability (EWG)



Ingredients - skin type matching (Use Profile)

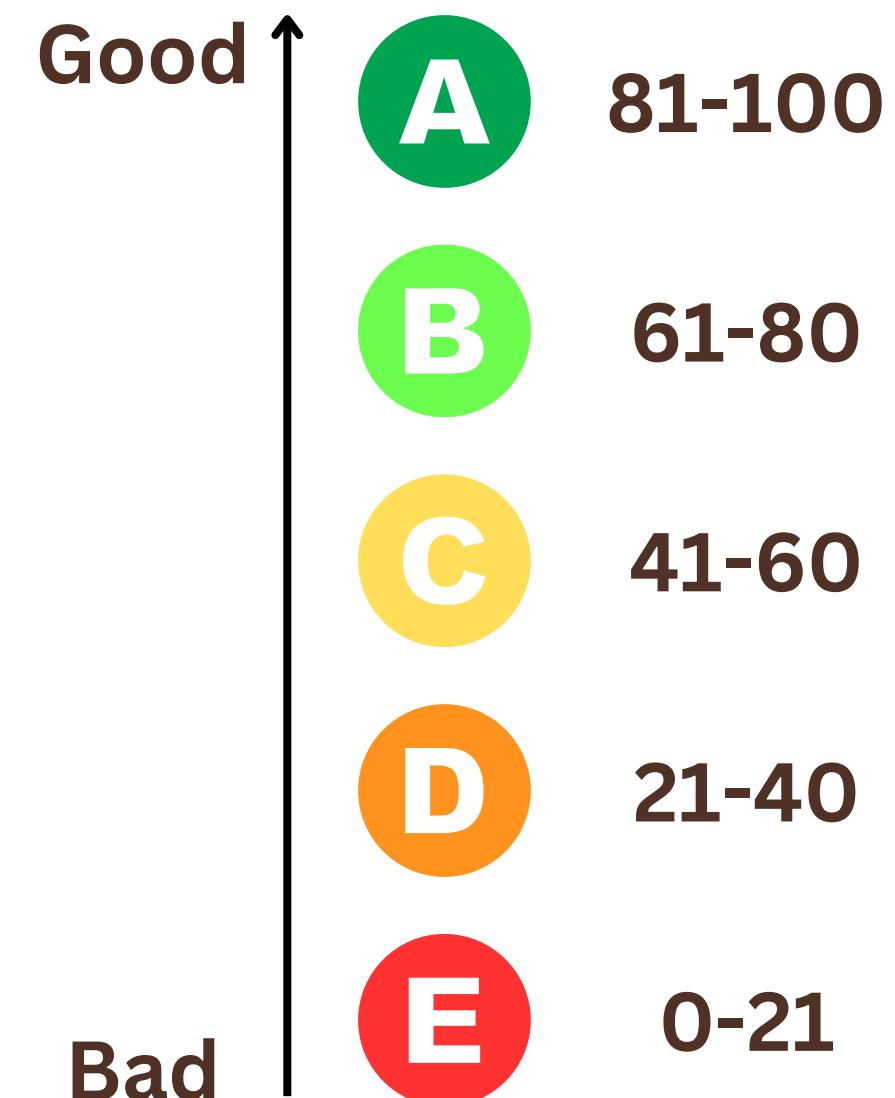




Score Calculation Table

Factor	Weight (%)	Description
EWG Risk $= ((N \sum (\text{Reverse EWG Risk}) \times 10) / K) \times 0.5$: Reverse EWG Risk = 10 - EWG Risk : K = Number of ingredients that have a risk score : N ingredients	50%	Ingredients with lower risk scores (1-10) will be reversed (10 = best, 1 = worst).
EWG Data Availability $= ((N \sum (\text{Data Availability}) / K) \times 10 \times 0.4)$: K = Number of ingredients that have a risk score : N ingredients	40%	Indicates how much reliable data exists for the ingredient, ensuring transparency.
Matching (Skin Type) If Skin type of user match with the product skin type = 10 if not = 0	10%	Measures how well the product matches a user's skin type.
Final score = Risk + Safety + EWG Data Availability + Matching (Skin Type) A is dark green, B is light green, C is yellow, D is orange, and E is red. The calculation of the full score is 100 (A: 81-100, B: 61-80, C: 41-60, D: 21-40, and E: 0-20).		

Display of scores on the website



Ingredient	Risk	EWG Data Availability
Water (Aqua)	1	5
Glycerin	2	3
Phenoxyethanol	4	4
Glyceryl Oleate	1	3
Citric Acid	2	4
Tocopherol	2	3
Ethyhexylglycerin	2	2
Salicylic Acid	8	2
Ceramide NP	1	2
Ethyhexyl Palmitate	1	3
Cetyl Ethylhexanoate	1	4
Polyglyceryl-3 Cocoate	1	2
Trihydroxystearin	1	2
Glyceryl Behenate	3	2
Polyglyceryl-6 Octastearate	1	2
Olea Europaea (Olive) Fruit Oil	-	-
Aloe Barbadensis Leaf Extract	1	2
Canola Oil	1	3
Ceteareth-25	2	4
Cetyl Alcohol	1	3
Behenic Acid	1	4
Cholesterol	1	2
Ceramide NS	1	2
Ceramide AP	1	2
Ceramide EOP	1	2
Ceramide EOS	-	-
Caprooyl Phytosphingosine	1	-
Caprooyl Sphingosine	1	2
Ascorbyl Palmitate (Vitamin C Palmitate)	2	3
Lecithin	4	4

How to Calculate Score on SkinSite

Test data:

AKINS VEGAN BARRIER CARE CLEANSING BALM

Best Suited For:

- Oily
- Sensitive





How to Calculate Score on SkinSite

Ingredient	Risk	EWG Data Availability
Water (Aqua)	1	5
Glycerin	2	3
Phenoxyethanol	4	4
Glyceryl Oleate	1	3
Citric Acid	2	4
Tocopherol	2	3
Ethylhexylglycerin	2	2
Salicylic Acid	8	2
Ceramide NP	1	2
Ethylhexyl Palmitate	1	3
Cetyl Ethylhexanoate	1	4
Polyglyceryl-3 Cocoate	1	2
Trihydroxystearin	1	2
Glyceryl Behenate	3	2
Polyglyceryl-6 Octastearate	1	2
Olea Europaea (Olive) Fruit Oil	-	-
Aloe Barbadensis Leaf Extract	1	2
Canola Oil	1	3
Ceteareth-25	2	4
Cetyl Alcohol	1	3
Behenic Acid	1	4
Cholesterol	1	2
Ceramide NS	1	2
Ceramide AP	1	2
Ceramide EOP	1	2
Ceramide EOS	-	-
Caprooyl Phytosphingosine	1	-
Caprooyl Sphingosine	1	2
Ascorbyl Palmitate (Vitamin C Palmitate)	2	3
Lecithin	4	4

User Skin Type is “Oily” and the Product is for “Oily” skin type

Step 1: Risk Score Calculation (50% of Total Score):

Reverse the risk score

$$\begin{aligned}
 &= N \sum (10 - \text{EWG Risk}) \\
 &= (10 - 1) + (10 - 2) + (10 - 4) + (10 - 1) + (10 - 2) + \\
 &\quad (10 - 2) + (10 - 2) + (10 - 8) + (10 - 1) + (10 - 1) + \\
 &\quad (10 - 1) + (10 - 1) + (10 - 1) + (10 - 3) + (10 - 1) + \\
 &\quad (10 - 1) + (10 - 1) + (10 - 2) + (10 - 1) + (10 - 1) + \\
 &\quad (10 - 1) + (10 - 1) + (10 - 1) + (10 - 1) + (10 - 1) + \\
 &\quad (10 - 1) + (10 - 2) + (10 - 4) \\
 &= 9 + 8 + 6 + 9 + 8 + 8 + 2 + 9 + 9 + 9 + 9 + 7 + 9 + 9 + \\
 &\quad 9 + 8 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 8 + 6 = 231
 \end{aligned}$$

Multiply by 10

$$\begin{aligned}
 &= 231 \times 10 \\
 &= 2310
 \end{aligned}$$

Divide by the risk number of ingredients (to find the average)

$$\begin{aligned}
 &= 2310 / 28 \\
 &= 82.5 \\
 &= 82.5 \times 0.5 \\
 &= 41.25
 \end{aligned}$$

Weighted 50%



How to Calculate Score on SkinSite

Ingredient	Risk	EWG Data Availability
Water (Aqua)	1	5
Glycerin	2	3
Phenoxyethanol	4	4
Glyceryl Oleate	1	3
Citric Acid	2	4
Tocopherol	2	3
Ethylhexylglycerin	2	2
Salicylic Acid	8	2
Ceramide NP	1	2
Ethylhexyl Palmitate	1	3
Cetyl Ethylhexanoate	1	4
Polyglyceryl-3 Cocoate	1	2
Trihydroxystearin	1	2
Glyceryl Behenate	3	2
Polyglyceryl-6 Octastearate	1	2
Olea Europaea (Olive) Fruit Oil	-	-
Aloe Barbadensis Leaf Extract	1	2
Canola Oil	1	3
Ceteareth-25	2	4
Cetyl Alcohol	1	3
Behenic Acid	1	4
Cholesterol	1	2
Ceramide NS	1	2
Ceramide AP	1	2
Ceramide EOP	1	2
Ceramide EOS	-	-
Caprooyl Phytosphingosine	1	-
Caprooyl Sphingosine	1	2
Ascorbyl Palmitate (Vitamin C Palmitate)	2	3
Lecithin	4	4

User Skin Type is “Oily” and the Product is for “Oily” skin type

Step 2: Data Availability Score Calculation (40% of Total Score):

- Multiply by 10 = $N\Sigma(\text{Data Availability}) \times 10$

$$(5 \times 10) + (3 \times 10) + (4 \times 10) + (3 \times 10) + (4 \times 10)$$

$$+ (3 \times 10) + (2 \times 10) + (2 \times 10) + (2 \times 10) + (3 \times 10)$$

$$+ (4 \times 10) + (2 \times 10) + (2 \times 10) + (2 \times 10) + (2 \times 10)$$

$$+ (2 \times 10) + (3 \times 10) + (4 \times 10) + (3 \times 10) + (4 \times 10)$$

$$+ (2 \times 10) + (2 \times 10) + (2 \times 10) + (2 \times 10) + (2 \times 10)$$

$$+ (3 \times 10) + (4 \times 10)$$

$$= 760$$
- Divide by the number of ingredients that have data availability score (to find the average).

$$= 760 / 27$$

$$= 28.1$$
- Weighted 40% = 28.15×0.4

$$= 11.26$$

How to Calculate Score on SkinSite

Skin Type Product suitable for skin type	Oily	Normal	Dry	Combination	Sensitive	Acne-prone
Oily	10	0	0	0	0	0
Normal	0	10	0	0	0	0
Dry	0	0	10	0	0	0
Combination	0	0	0	10	0	0
Sensitive	0	0	0	0	10	0
Acne-prone	0	0	0	0	0	10

Step 3: Skin Type Matching Score (10%):

- User Skin Type: "oily"
- Product Suited for: "oily"
- Weighted 10% = 10



How to Calculate Score on SkinSite

Step 4: Final Score

Risk score + Data availability + Skintype Matching

$$= 41.25 + 11.26 + 10$$

$$= 62.51$$

$$= 63$$

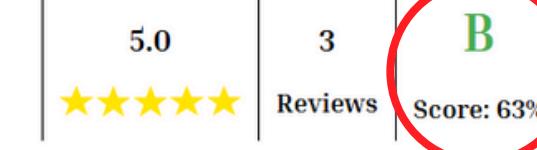
$$= \textcolor{green}{B}$$



AKINS

AKINS VEGAN BARRIER CARE CLEANSING BALM

Cleansing



950.00 ₦

Size: 100 ml/g

+ Compare In Wishlist

Product Information

Product Detail

Rating & Reviews 3

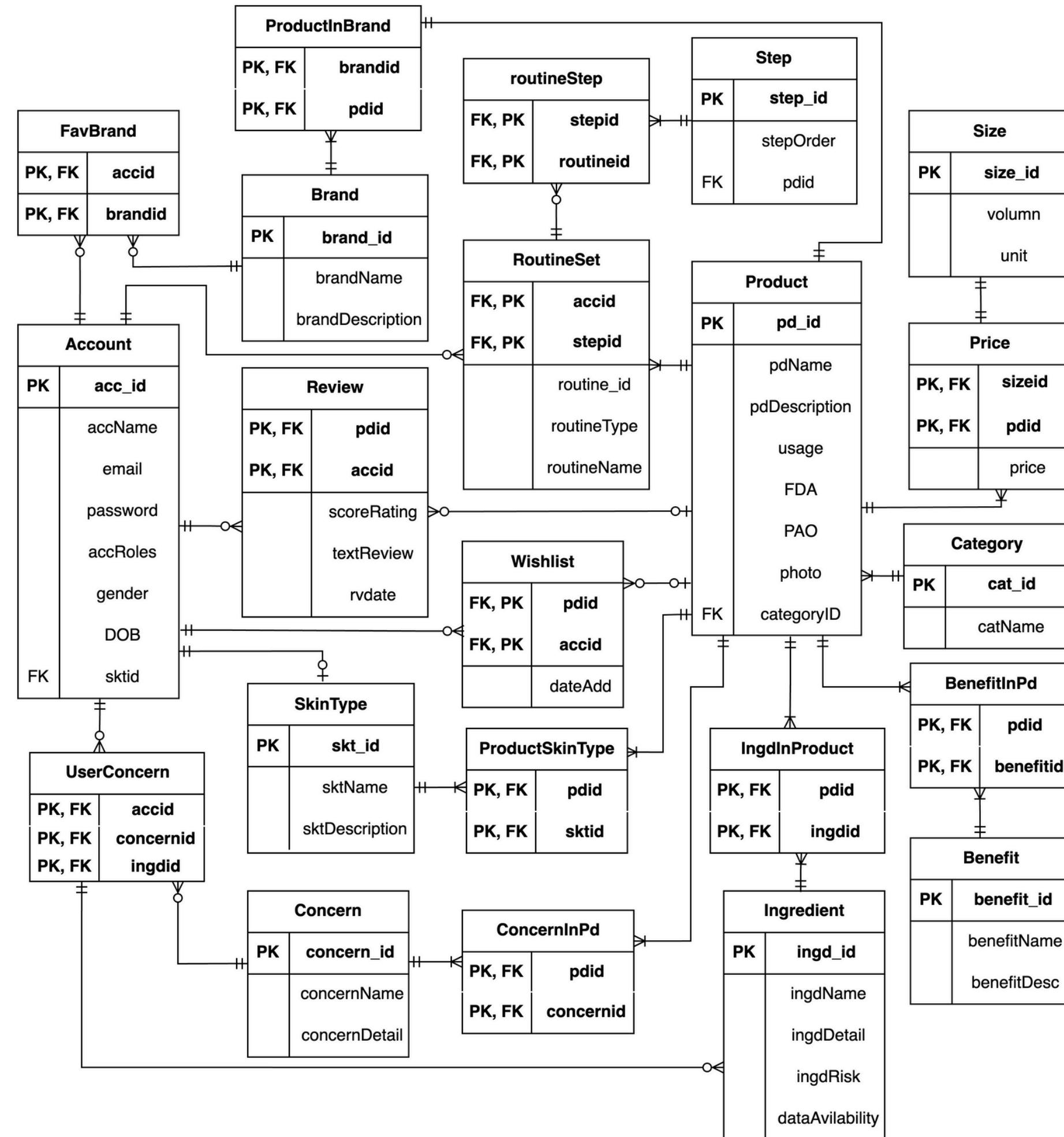
Description

AKINS Vegan Barrier Care Cleansing Balm is a balm cleanser designed to gently remove makeup and sunscreen without disrupting the skin's protective barrier. Enriched with nourishing ingredients, it helps maintain and preserve the skin's natural barrier for healthy, balanced skin.

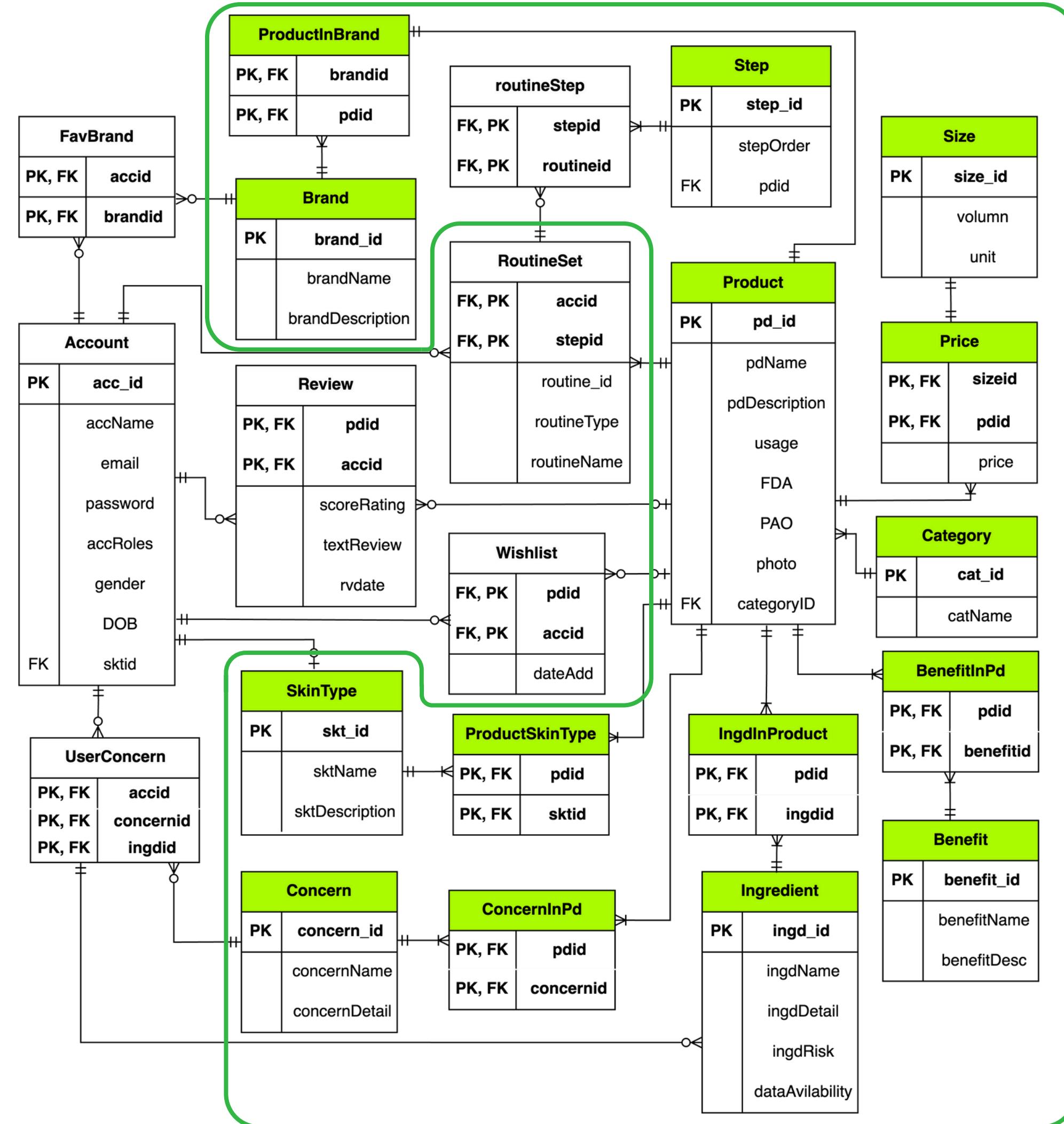
ERD

- We separate data in 3 groups

Overview Of ER Diagram



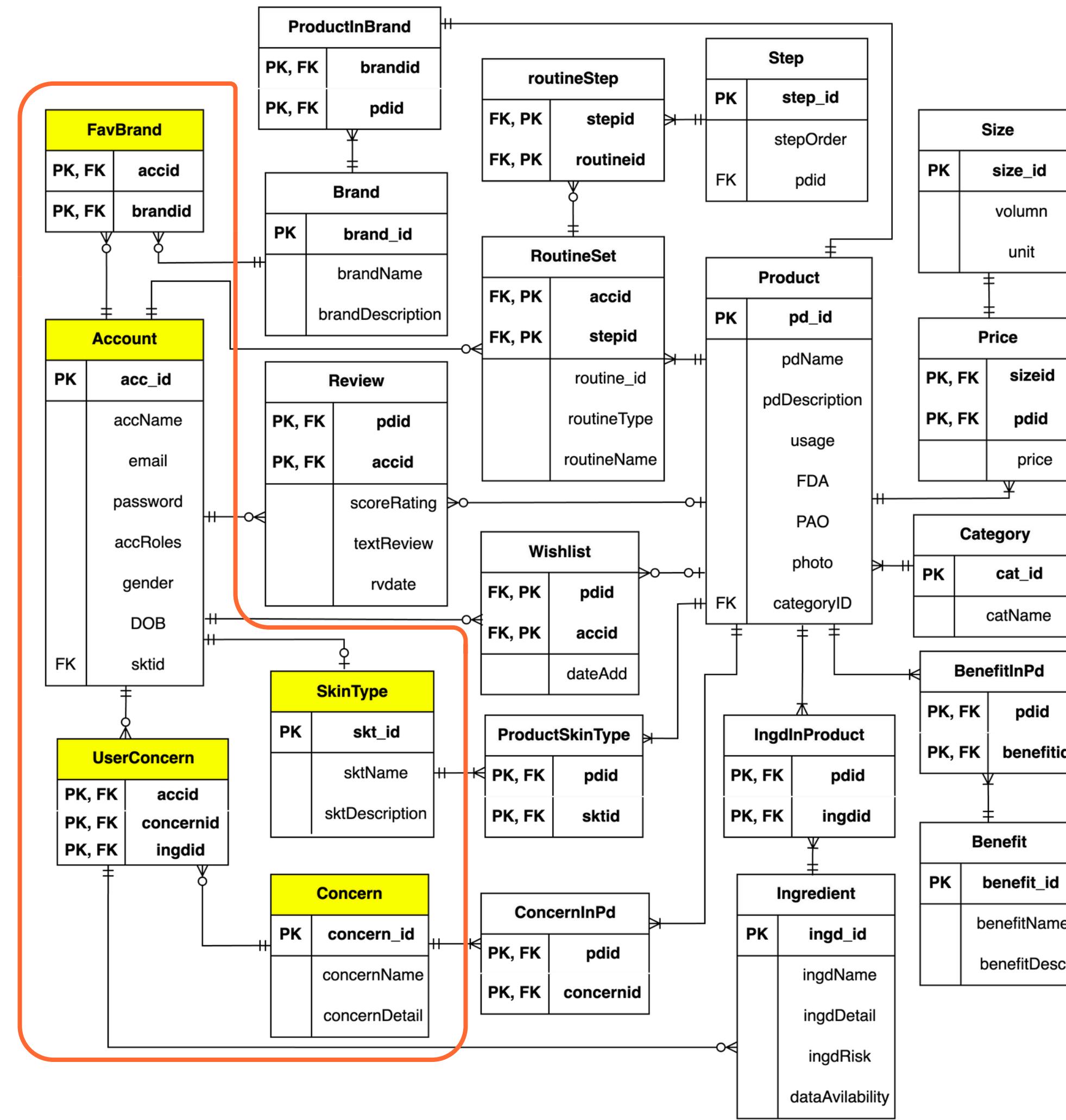
ERD



Product Information

- Brand
- Size
- Price
- Category
- Ingredient
- SkinType
- Benefit
- Concern
- Step

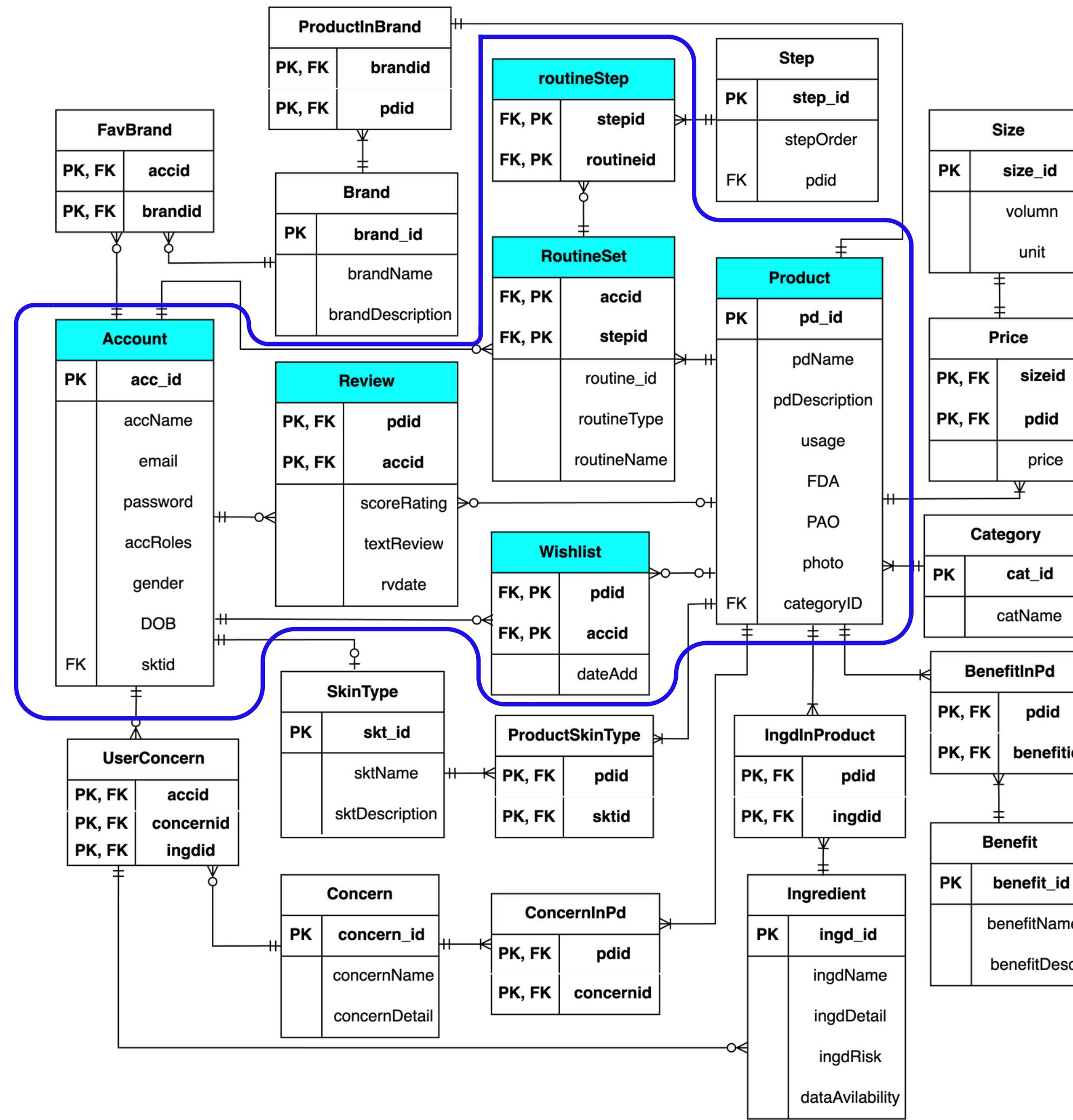
ERD



Personalized Information

- FavBrand
- UserConcern
- Skin Type

ERD



User Interaction Product

- Review
- Wishlist
- RoutineSet

STEP

1

REQUIREMENT GATHERING



2

SYSTEM DESIGN



3

SYSTEM IMPLEMENTATION

4

SYSTEM TESTING

STEP

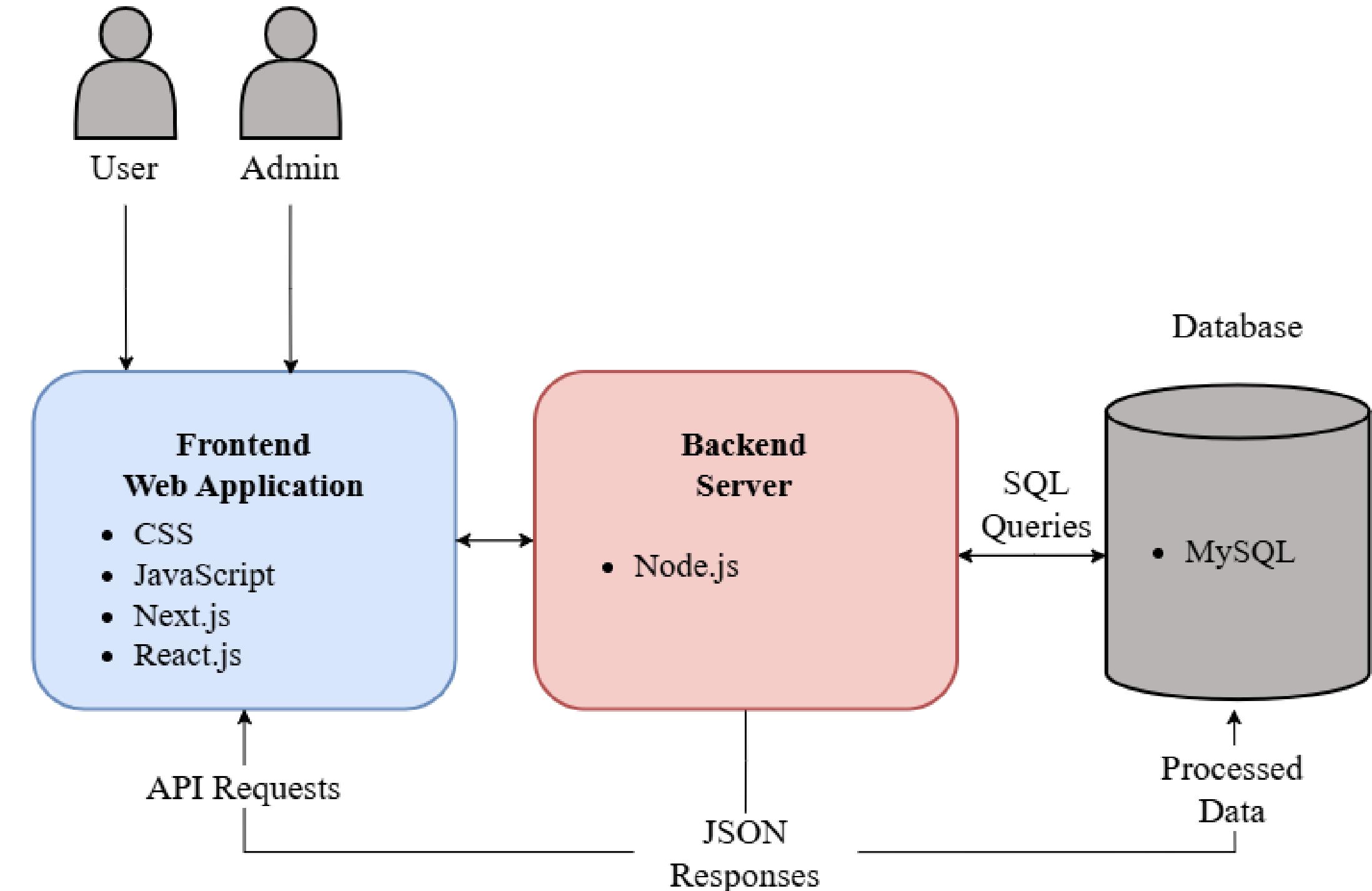
- 
- 1 REQUIREMENT GATHERING
 - 2 SYSTEM DESIGN
 - 3 SYSTEM IMPLEMENTATION
 - 4 SYSTEM TESTING

SECTION

System Architecture

System Architecture

- User
- Frontend
- Backend
- Database





Requirement Gathering X

System design X

System Implement X

SECTION

System Architecture

Data Collection

System Demo

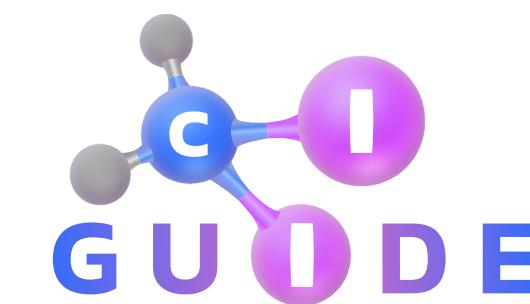
Sources of Product Information Collection



Sources of Ingredient Information Collection



R E V E A



Lesielle®



SECTION

System Architecture

Data Collection

System Demo

Data Collection Process

- 14 Categories
- 18 Benefits
- 28 Concerns
- 125 Products
- 758 Ingredients

pdID	pdName	pdDescription	categoryID	usage	FDA	PAO	photo
PTH00115	HER HYNES HEXAPEPTIDE ANTI-AGING SUPER DRY TOWEL	With a silky texture, this towel is perfect for sensitive skin.	CTG00009	Apply evenly to clean skin.	73-1-6700000200		/image/ProductImage/PTH00115.j
PTH00116	HER HYNES POWER GLOW PORE REFINE CREAM 15 ML	This gentle, non-comedogenic cream helps to refine pores.	CTG00008	Apply the cream to clean skin.	74-1-6500007973		/image/ProductImage/PTH00116.j
PTH00117	HER HYNES ROYAL LIFT WHITE ANTI-WRINKLE EYE CREAM 15 ML	ROYAL LIFT Eye Cream is a concentrate that reduces the appearance of wrinkles.	CTG00010	Apply under the eyes.	74-1-6300000503		/image/ProductImage/PTH00117.j
PTH00118	HER HYNES 3D POWER ACNE CLEAR GEL 7 ML	A concentrate that helps to clear acne-prone skin.	CTG00006	After cleansing, apply to acne-prone areas.	74-1-6600040075		/image/ProductImage/PTH00118.j
PTH00119	HER HYNES 3D POWER ACNE CLEAR GEL 12 ML	A concentrate that helps to clear acne-prone skin.	CTG00006	After cleansing, apply to acne-prone areas.	74-1-6600040075		/image/ProductImage/PTH00119.j
PTH00120	HER HYNES INSTANT YOUTH AOX PLATINUM MASK SHEET	INSTANT YOUTH AOX PLATINUM MASK SHEET	CTG00013	After cleansing, apply to face.	10-2-6500005247		/image/ProductImage/PTH00120.j
PTH00121	HER HYNES INSTANT YOUTH AOX PLATINUM MASK (7 SHEETS)	INSTANT YOUTH AOX PLATINUM MASK (7 SHEETS)	CTG00013	After cleansing, apply to face.	10-2-6500005247		/image/ProductImage/PTH00121.j
PTH00122	HER HYNES BIO-RETINAL MELATONIN ADVANCED REPAIR	HER HYNES BIO-RETINAL MELATONIN ADVANCED REPAIR	CTG00007	After cleansing, apply to face.	10-1-6600031573		/image/ProductImage/PTH00122.j
PTH00123	IMMACULIA TIMELESS ESSENCE	Experience the magic of timeless skincare.	CTG00005	After over 2 months of use.	12-1-650004212M		/image/ProductImage/PTH00123.j
PTH00124	IMMACULIA ILLUMINA LIGHT GENERATOR	Step into the future of skincare.	CTG00008	Pump 1-3 pumps onto face.	12-1-67000123M		/image/ProductImage/PTH00124.j
PTH00125	IMMACULIA TIMELESS GENERATOR	Embark on a journey to timeless beauty.	CTG00008	Infused with timeless ingredients.	12-1-6700012949		/image/ProductImage/PTH00125.j

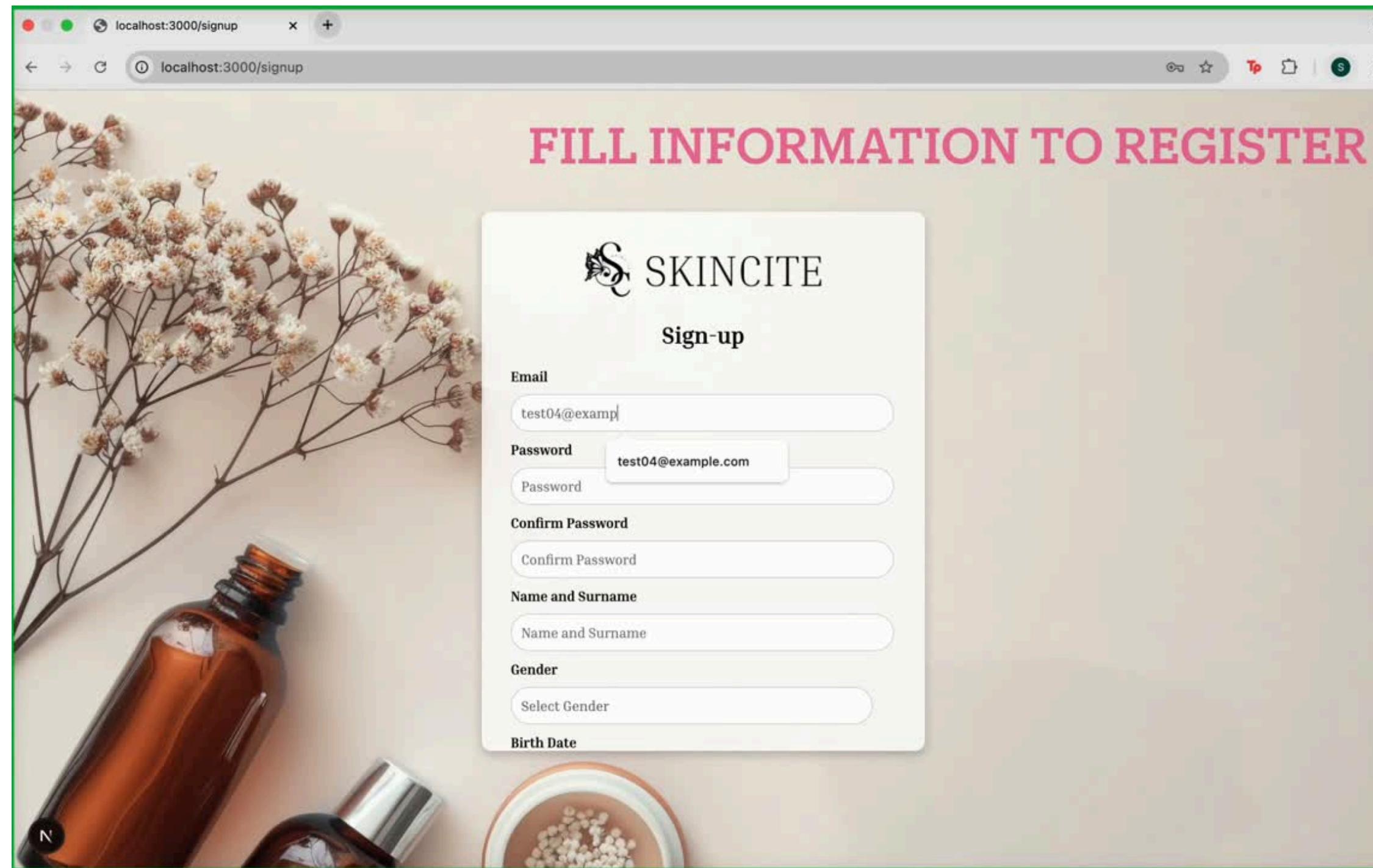
ingd_id	ingdName	ingdDetail	ingdRisk	dataAvailability
ING00748	Glycolipids	Glycolipids are naturally occurring fat-based molecules that play a crucial role in maintaining skin barrier function.	1	3
ING00749	C15-19 Alkane	C15-19 Alkane is an emollient that works to soften and smooth the skin.	3	3
ING00750	Triheptanoin	Triheptanoin is an emollient known for its ability to provide moisture and hydration to the skin.	1	3
ING00751	Diethylhexyl Syringylidenemalonate	Diethylhexyl Syringylidenemalonate is a potent antioxidant that protects the skin from environmental damage.	1	3
ING00752	Lavandula Hybrida Extract	Lavandula Hybrida Extract, also known as lavender extract, is derived from the lavender plant.	3	2
ING00753	Tetrapeptide-1	Tetrapeptide-1 is a synthetic peptide composed of four amino acids that stimulates collagen production.	1	2
ING00754	Dunaliella Salina Extract	Dunaliella Salina Extract is derived from a type of microalgae known for its high concentration of antioxidants.	1	2
ING00755	Methylglucoside Phosphate	Methylglucoside Phosphate is a sugar-derived humectant that helps to keep the skin hydrated.	1	2
ING00756	Laminaria Digitata Extract	Derived from brown algae, Laminaria Digitata Extract is rich in minerals and vitamins.	3	2
ING00757	Copper Lysinate/Prolinate	Copper Lysinate/Prolinate is a copper peptide complex known for its anti-aging properties.	1	3
ING00758	Passiflora Edulis Fruit Extract	Polyglyceryl-4 Oleate is a great emulsifier that can keep the oil and water phases of a product stable.	1	2

SECTION

System Architecture

Data Collection

System Demo





System Design x | System Implement x |

System Testing x

STEP

1

SYSTEM UNIT TEST

2

SYSTEM INTEGRATION TEST



Function	Role			
	Admin	Member w/ skin profile	Member w/o skinprofile	Non member
Home				
Search				
Product Info				
Compare				
About				
Contact				
User Account				
Write review				
My Reviews				
My wishlist				
My skincare				
Display Score Product				
Notify concern				
Admin Account				
Product Management				
User Management				
Management				
Review Management				

Summary of Platform Function Table

- Admin
- User - member
- Non member

Can use in Mobile & Desktop
Can use only Desktop
Not Available Function



Unit test X

System integration test X

UNIT TESTING

User Side

Admin Side

Main Function	No. of Unit Function	No. of Pass Percent
Sign-up	7	100%
log in	5	100%
Home Page	2	100%
Search Function	19	100%
Compare Function	6	83%
Review Function	14	100%
Wishlist Function	5	100%
Routine Set Function	9	100%
Log out	1	100%



Unit test x

System integration test x

UNIT TESTING

User Side

Admin Side

Main Function	No. of Unit Function	No. of Pass Percent
Product Management	33	100%
User Management	6	100%
Information Management	28	100%
Review Management	6	100%



System Design x | System Implement x |

System Testing x

STEP

1

SYSTEM UNIT TEST



2

SYSTEM INTEGRATION TEST



System Design x | System Implement x |

System Testing x

STEP

1

SYSTEM UNIT TEST

2

SYSTEM INTEGRATION TEST



Unit test X

System integration test X

SYSTEM INTEGRATION

User Side

Admid Side

Test Title	User w/o login	User login w/o skin profile	User login w/ oily skin type	User login w/dry skin type
User Registration		●	●	●
Log in as a member		●	●	●
Search the product name on the homepage	●	●	●	●
Click all filters to check (ex. Category, Skintype, Concern, Brand)	●	●	●	●
Search by benefit	●	●	●	●
Click sort (A-Z) and search product name	●	●	●	●
Click sort (A-Z) and search ingredient name	●	●	●	●
Click filter skin type & category	●	●	●	●
Search product name	●	●	●	●
Notify warning	○	○	● Warning: follow skin profile	● Warning: follow skin profile
Add a wishlist to the search page	○	●	●	●
Click to view product info	●	●	●	●
Remove wishlist & add again	○	●	●	●
Display score	● Score defaults to normal skin (53%)	● Score defaults to normal skin (53%)	● Score based on oily skin type (63%)	● Score based on dry skin type (53%)
Write a review	○	●	●	●
Click to compare 3 products	●	●	●	●
View product recommendations	●	●	●	●
View review history & modify review & delete review	○	●	●	●
View wishlist history & check to click to view product info & go back to the previous page, & remove wishlist	○	●	●	●
Create Morning Routine Set	○	●	●	●
Edit Morning Routine Set name & add product inset & edit product indet & delete product in set	○	●	●	●
Create Night Routine Set	○	●	●	●
Edit Night Routine Set name & add product in set & edit product in set & delete product in set	○	●	●	●
Logout				

●	Can use
○	Can not use
	Not Available

Test Title	User w/o login	User login w/o skin profile	User login w/ oily skin type	User login w/dry skin type
User Registration		●	●	●
Log in as a member		●	●	●
Search the product name on the homepage	●	●	●	●
Click all filters to check (ex. Category, Skintype, Concern, Brand)	●	●	●	●
Search by benefit	●	●	●	●
Click sort (A-Z) and search product name	●	●	●	●
Click sort (A-Z) and search ingredient name	●	●	●	●
Click filter skin type & category	●	●	●	●
Search product name	●	●	●	●
Notify warning	○	○	● Warning: follow skin profile	● Warning: follow skin profile
Add a wishlist to the search page	○	●	●	●
Click to view product info	●	●	●	●
Remove wishlist & add again	○	●	●	●
Display score	● Score defaults to normal skin (53%)	● Score defaults to normal skin (53%)	● Score based on oily skin type (63%)	● Score based on dry skin type (53%)
Write a review	○	●	●	●
Click to compare 3 products	●	●	●	●
View product recommendations	●	●	●	●
View review history & modify review & delete review	○	●	●	●
View wishlist history & check to click to view product info & go back to the previous page, & remove wishlist	○	●	●	●
Create Morning Routine Set	○	●	●	●
Edit Morning Routine Set name & add product inset & edit product indet & delete product in set	○	●	●	●
Create Night Routine Set	○	●	●	●
Edit Night Routine Set name & add product in set & edit product in set & delete product in set	○	●	●	●
Logout		●	●	●

●	Can use
○	Can not use
	Not Available



Unit test X

System integration test X

SYSTEM INTEGRATION

User Side

Admin Side

Test Title	Expected Result VS Actual Result	Status
Log in as an admin	<p>Expected: Admin logged in successfully and redirected to the admin's account page</p> <p>Actual: Admin logged in and redirected correctly</p>	✓
Product management: view, add, search, edit, delete	<p>Expected: Admin can view, add, search, edit, and delete products, and all changes are reflected correctly</p> <p>Actual: All product actions performed successfully</p>	✓
Management tab: view tabs & search	<p>Expected: Admin can navigate tabs (brand, skin type, etc.) and search by ID or name</p> <p>Actual: Tabs and search function worked correctly</p>	✓
Management tab: add/edit/delete brand, skin type, etc.	<p>Expected: Admin can add, edit, and delete items from tabs, actions reflected in real time</p> <p>Actual: Items were added, edited, and deleted successfully</p>	✓
Review management: view, search, delete	<p>Expected: Admin can view and delete reviews, no editing allowed</p> <p>Actual: Reviews were viewed and deleted as expected</p>	✓
User management: view, search, change role, delete	<p>Expected: Admin can view users, search, change roles, and delete users, and changes are reflected on re-login</p> <p>Actual: Role changes and deletions performed successfully</p>	✓
Log out as admin	<p>Expected: Admin logged out and redirected to the login page</p> <p>Actual: Logout function worked and redirection occurred correctly</p>	✓



Unit test x |

System integration test x |

USER TESTING

User side

Admin Side

There are **32** participates

Age ----- 18-25 years 71.9%

Gender ----- Male 53.1%

Occupation ----- Student 71.9%



Unit test x |

System integration test x |

USER TESTING

User side

Admin Side

Success Rate

User Testing for Registration

User Registration	Login Experience	Homepage Interaction	Filter Use	Compare Products
100%	100%	100%	91.7% (Pass)	100%

User Testing for Non Registration

Search	Compare Products	Review Interaction	Wishlist Functionality	Routine Set Management	Concern Notification	Logout
91.7% (Pass)	100%	95.8%(Pass)	75%(Pass)	100%	100%	100%

Homepage Interaction	Filter Use
100%	100%



Average User Satisfaction Score

We have 9 satisfaction questions for all users.

Step 1 Average for Question i = $\frac{\sum (\text{All responses for Question i})}{\text{Number of responses}}$

$$Q_1 = 4.125, Q_2 = 3.90625, Q_3 = 4.15625, Q_4 = 4.1875, Q_5 = 3.96875,$$

$$Q_6 = 4.21875, Q_7 = 4.21875, Q_8 = 4.28125, Q_9 = 4.59375$$

Step 2 Overall average = $\frac{\sum (\text{Average of all 9 questions})}{9} = \frac{Q_1 + Q_2 + Q_3 + Q_4 + Q_5 + Q_6 + Q_7 + Q_8 + Q_9}{9}$

Step 3 Final Score (out of 100) = Overall average $\times 20$

$$= 4.184027778 \times 20$$

$$= 83.68055556\% = 84\%$$



Unit test X

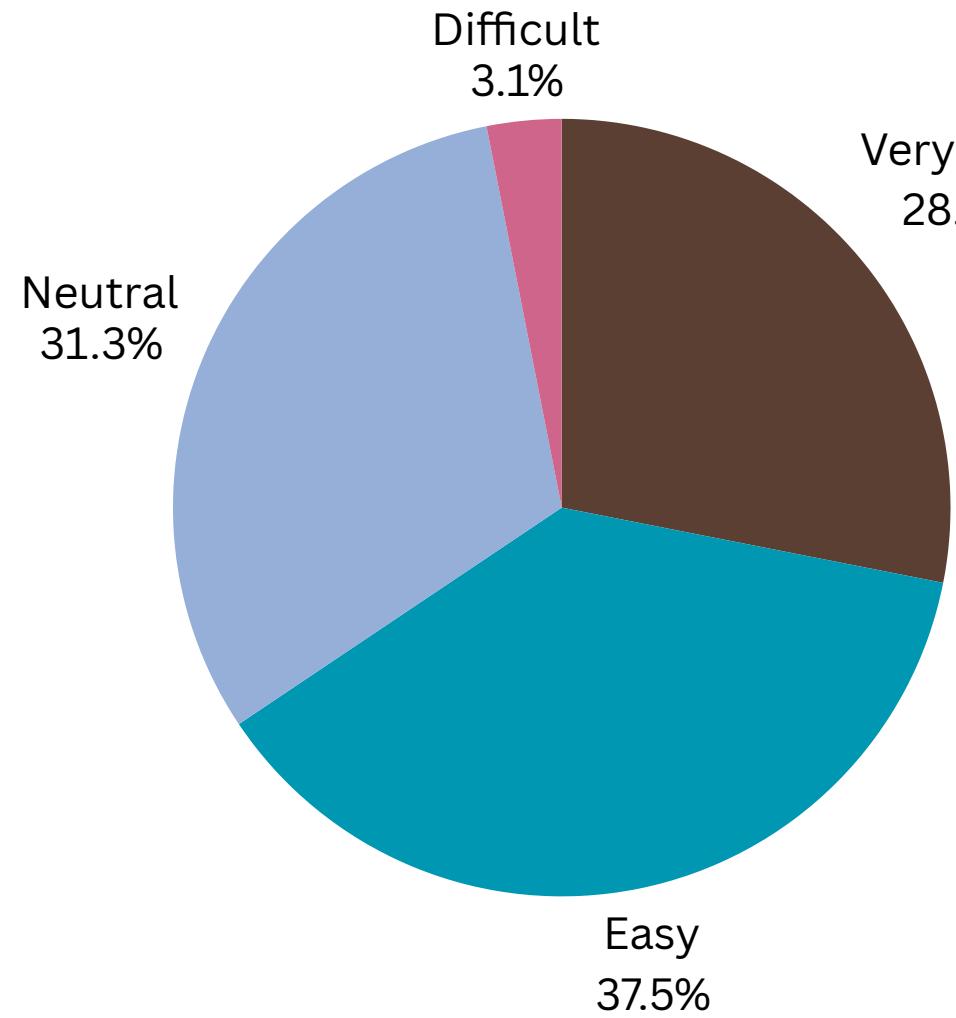
System integration test X

USER TESTING

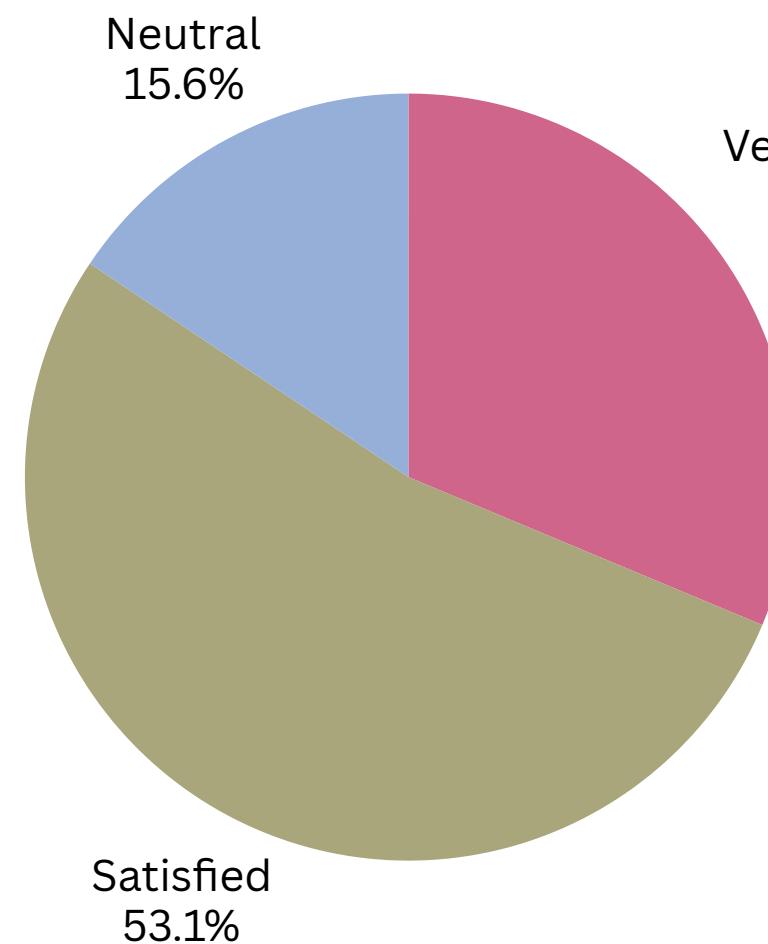
User side

Admin Side

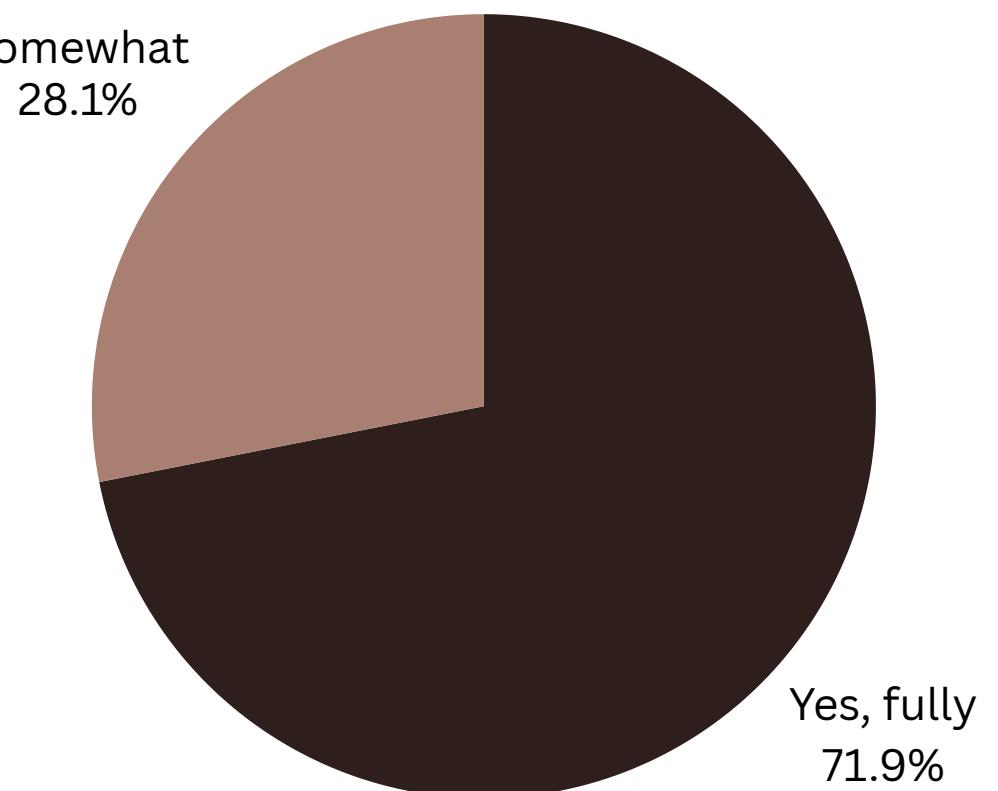
Feedback of Our SkinSite Website - Usability



How easy was it for you to navigate through the website?



How satisfied are you with the overall experience on the website?



Did the website meet your expectations in terms of functionality and ease of use?





Unit test

x

|

System integration test x

|

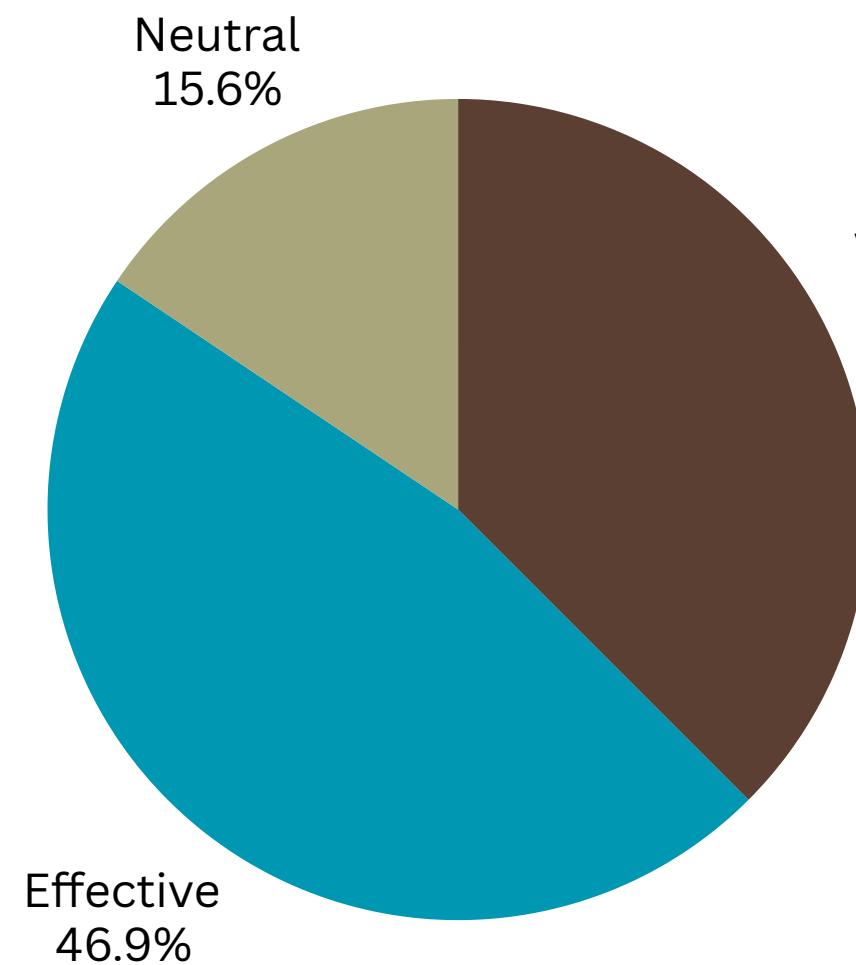
USER TESTING

User side

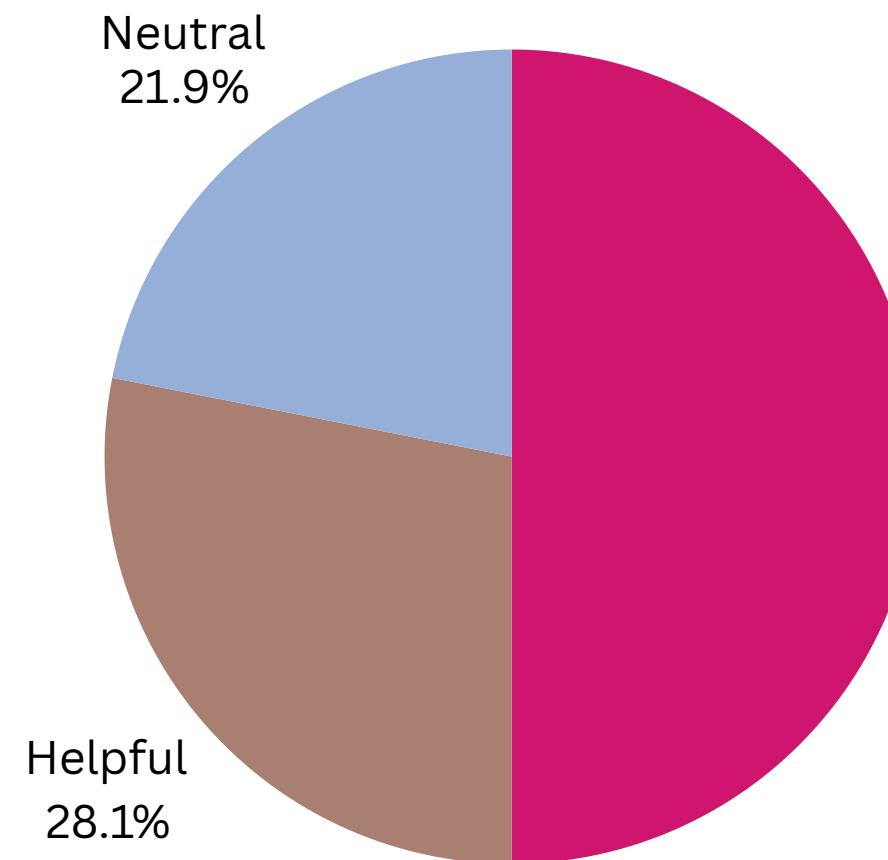
Admin Side

-

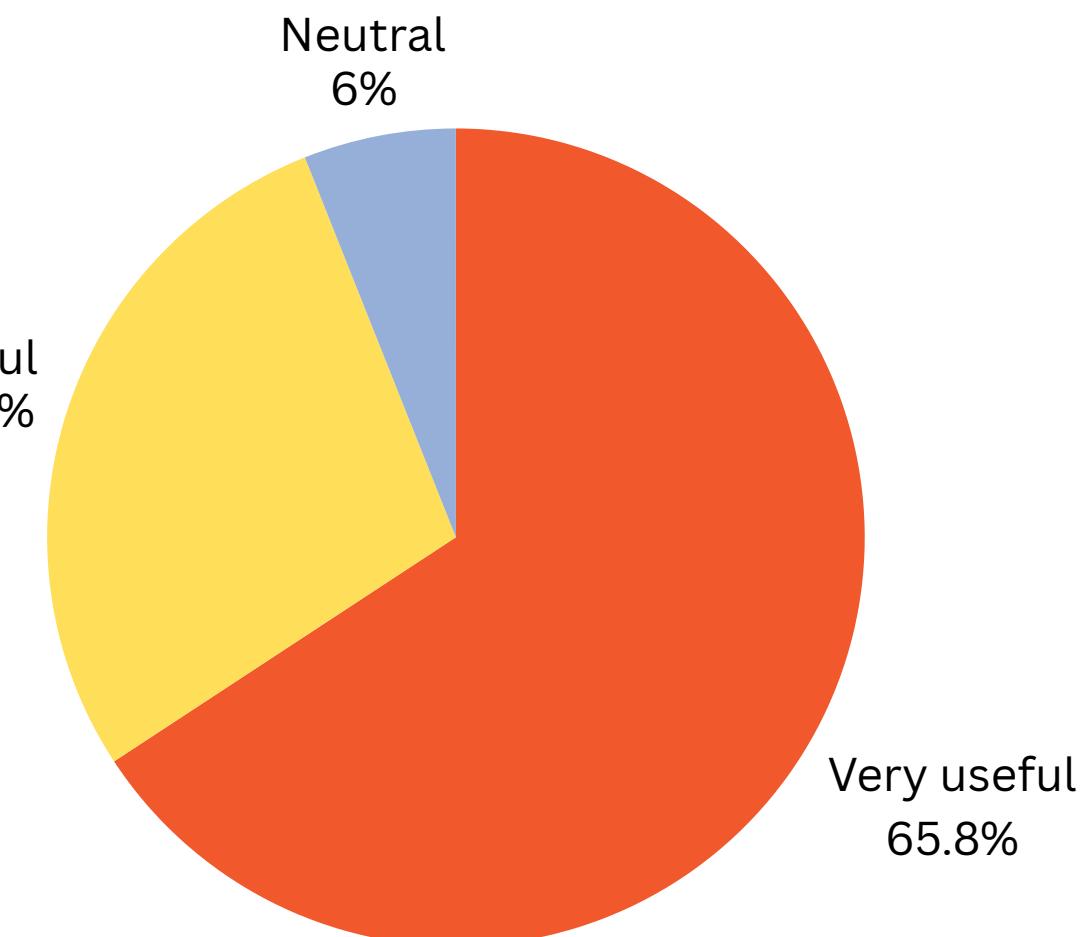
Feedback of Our SkinSite Website - Features



How effective was the search function in helping you find skincare products or information?



How helpful was the skin type filter in narrowing down your product options?



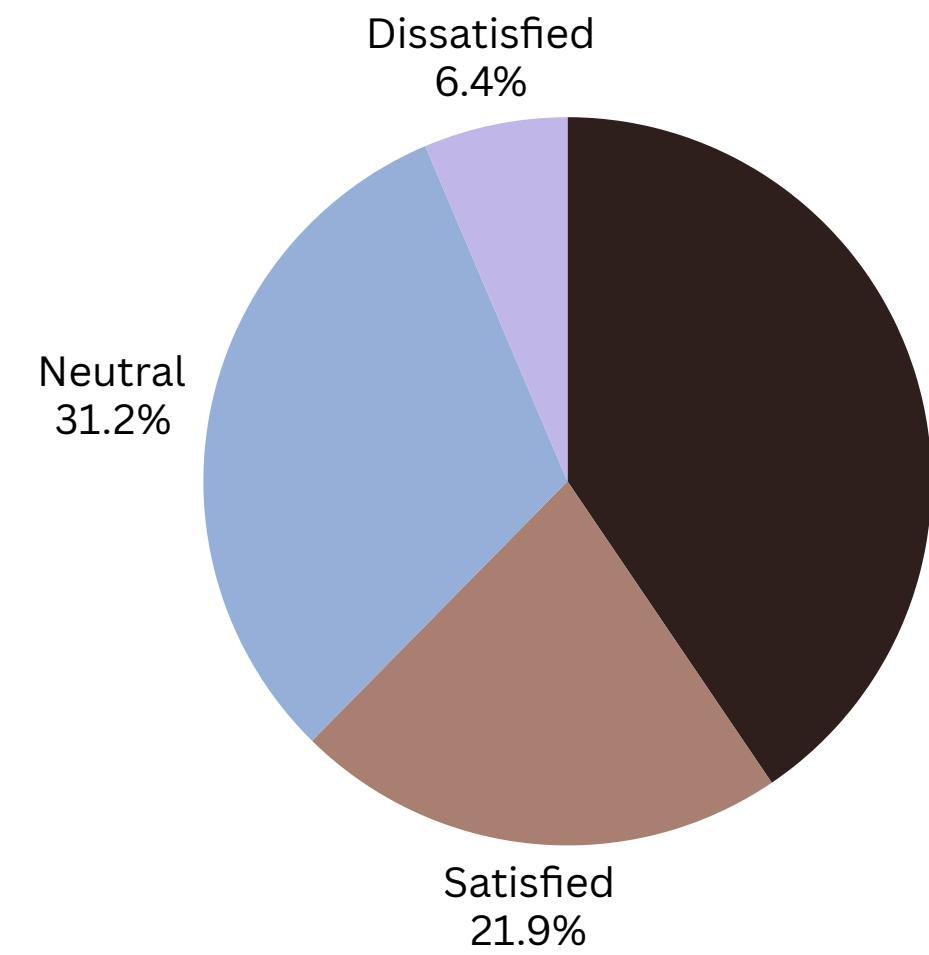
How useful was the product comparison feature?

USER TESTING

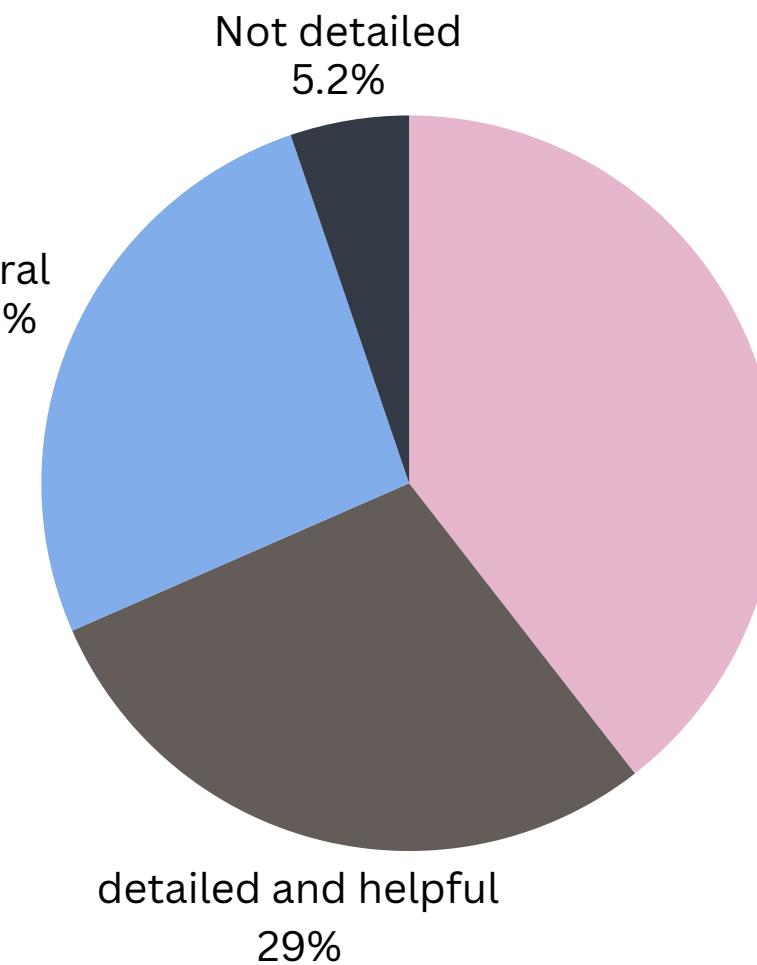
User side

Admin Side

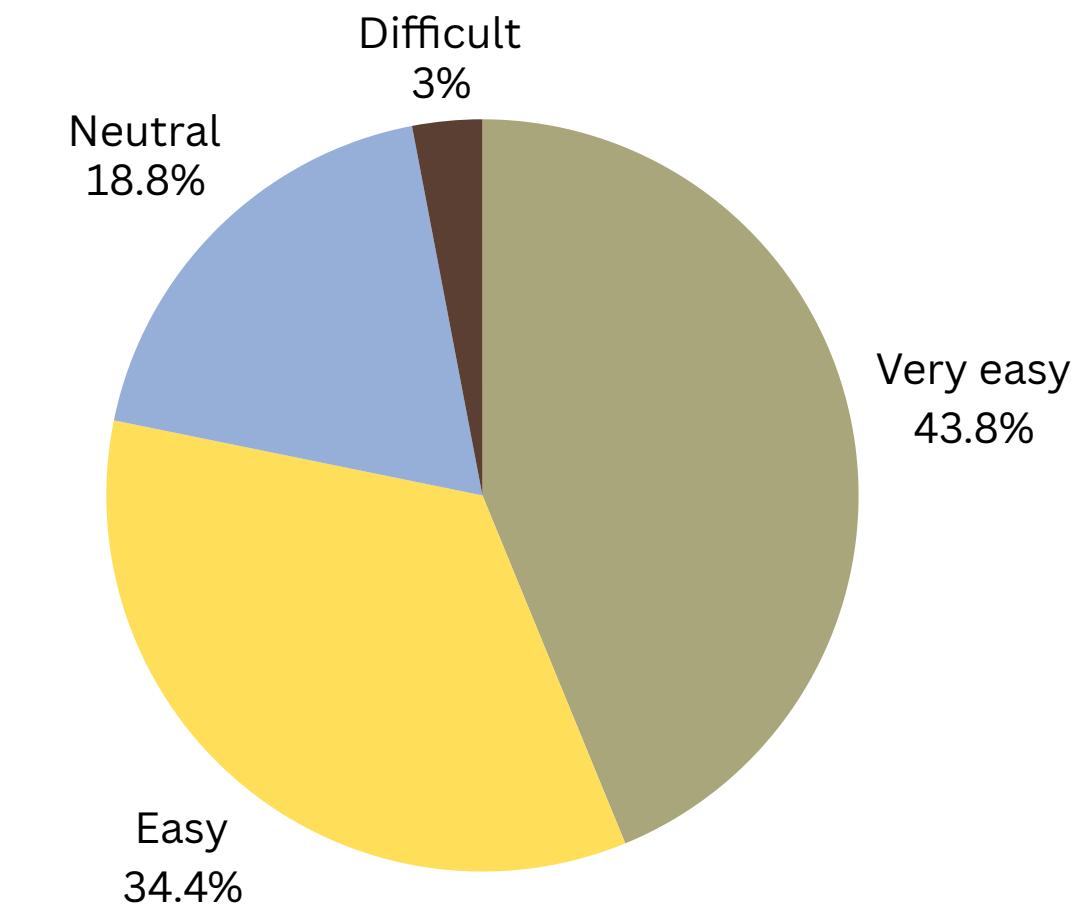
Feedback of Our SkinSite Website - Products



How satisfied are you with the variety of skincare products available on the website?



Was the information about the products detailed and helpful?



How easy was it to find all the information you needed about skincare products?



USER TESTING

User side

Admin Side

6. Suggestions for Improvement

6.1 What features do you think could improve the website?

- Database
- Add both Thai and English language support.
- The Preferences Concern section that includes chemical ingredient names
- It would be better if it's easier to use on mobile.

6.2 Were there any challenges you faced while navigating or using the website?

- The website loads slowly and shows some errors

6.3 Do you have any suggestions for enhancing the overall user experience?

- Mobile Usability
- Stability & Performance
- UI & Navigation



System Design x | System Implement x |

System Testing x

USER TESTING

User side

Admin Side

There are **5** participates

Age ----- 18-25 years ----- 100%

Gender ----- Male ----- 80%

Occupation ----- Student ----- 80%



System Design X | System Implement X |

System Testing X

USER TESTING

User side

Admin Side

Success Rate

Login	Product Management	Management (Brand, skintype, ..etc)	Review management	User management (search, change role, delete)	Logout as admin
100%	100%	100%	100%	100%	100%



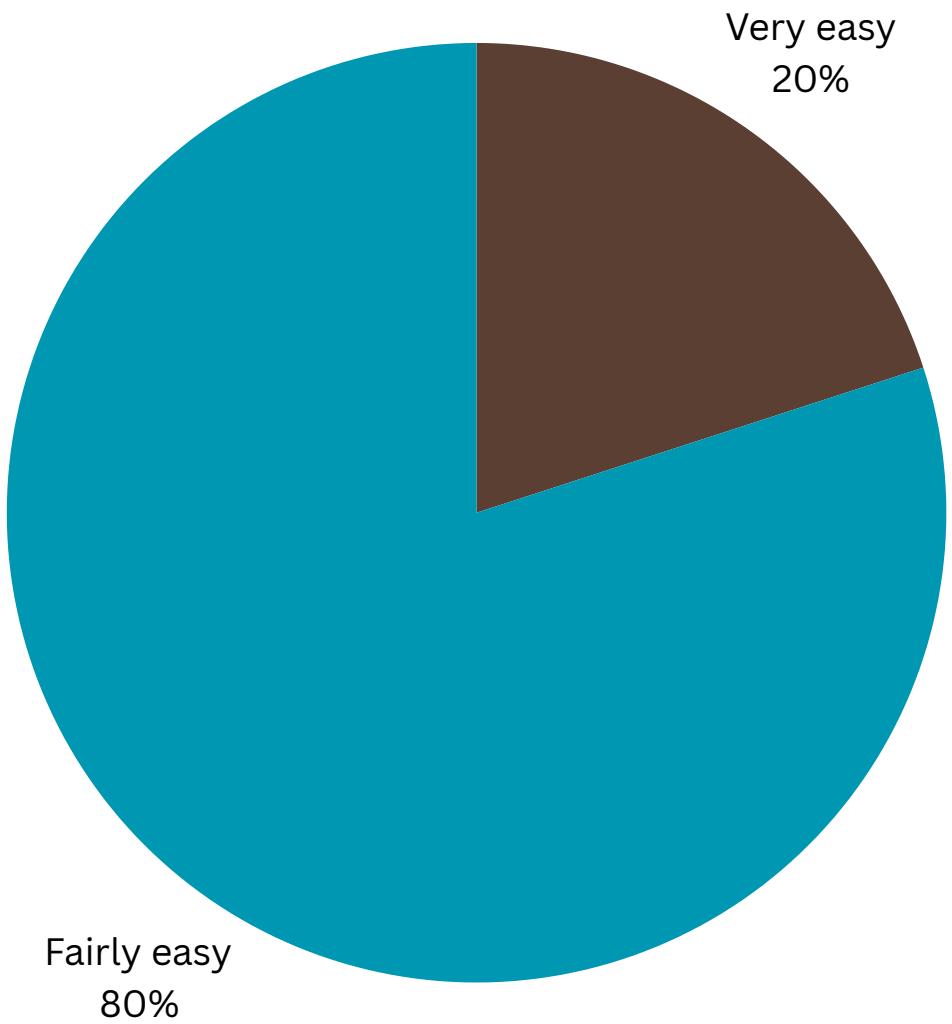
System Design x | System Implement x |

System Testing x

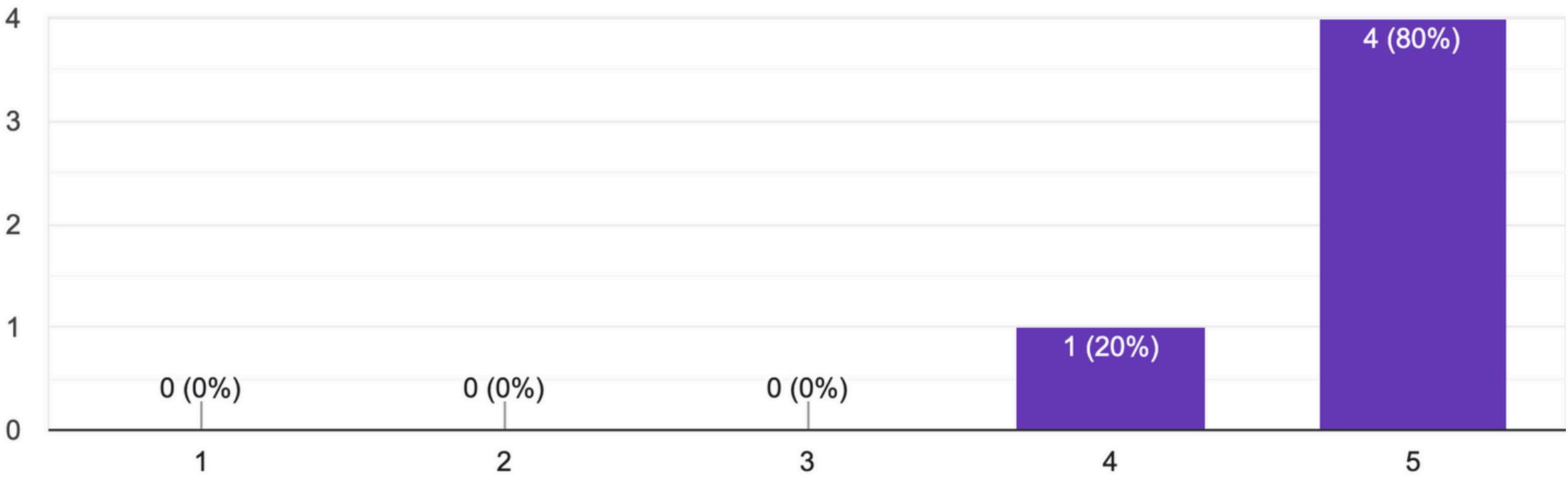
USER TESTING

User side

Admin Side



1. User Experience Feedback Form



How is the website usage?

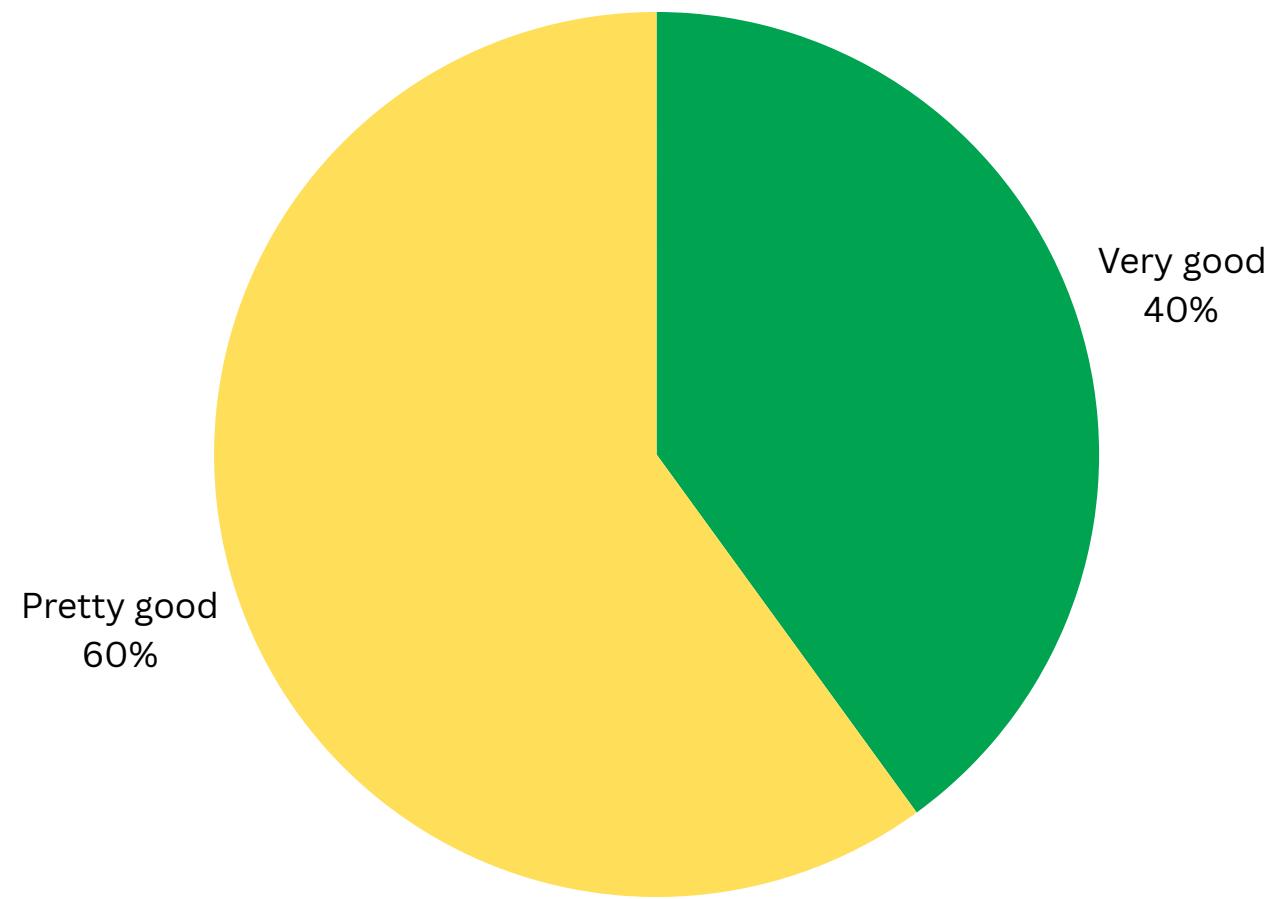
How is the navigation within the website



System Design x | System Implement x |

System Testing x

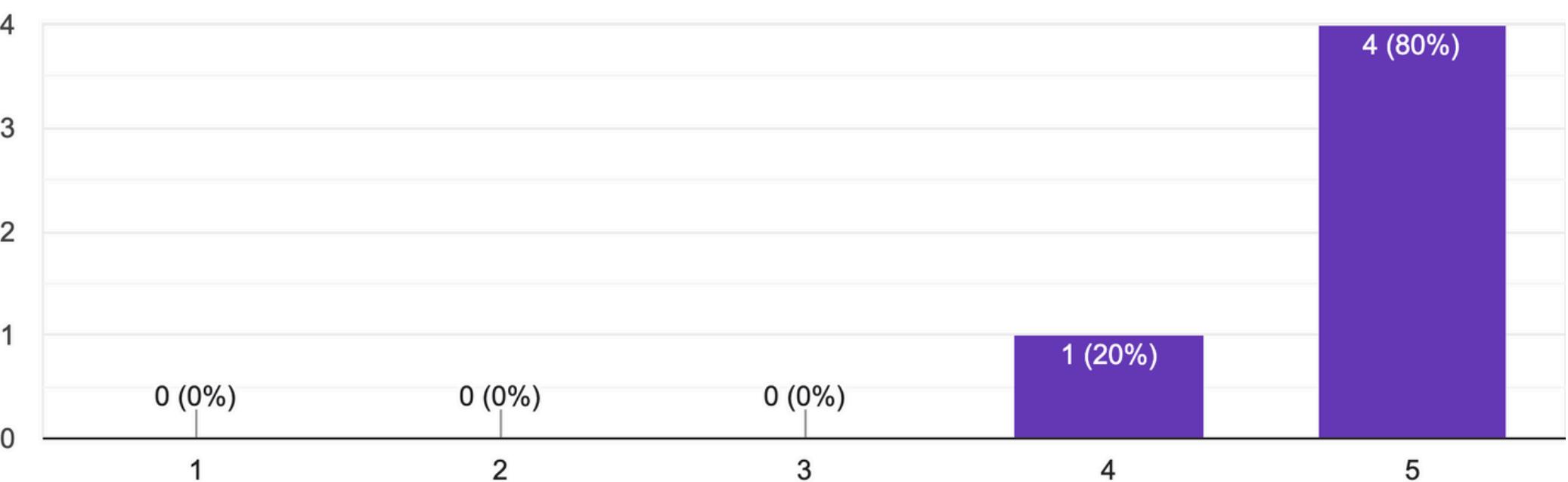
USER TESTING



User side

Admin Side

2. Satisfaction



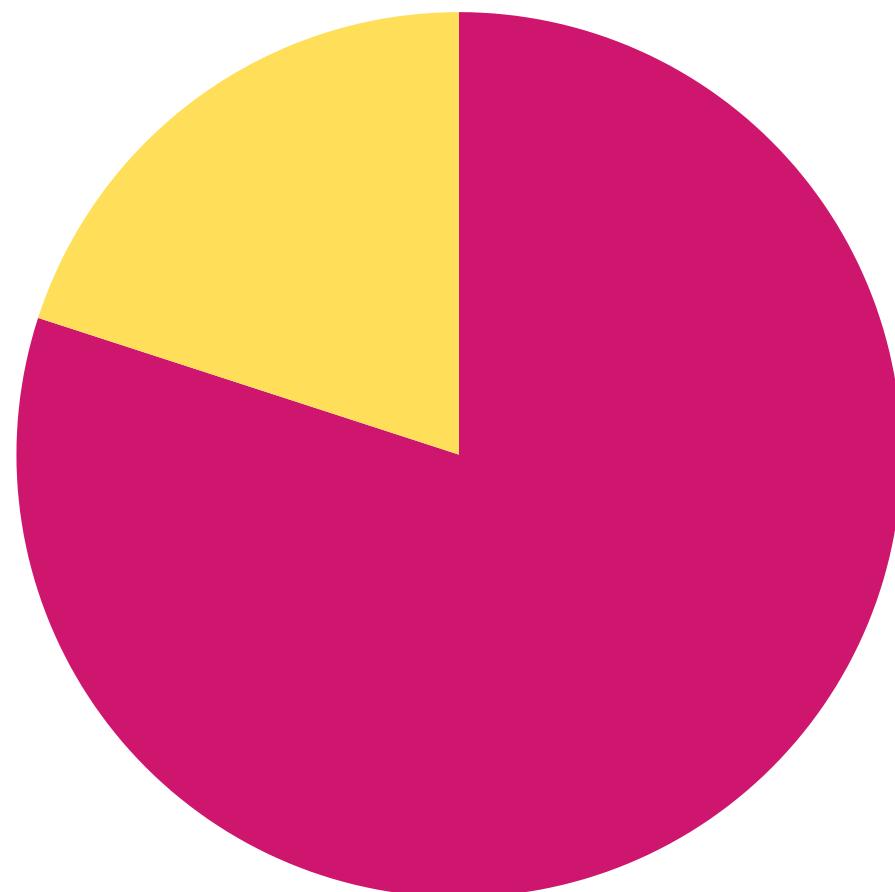
How responsive is your website?

Are they satisfied with the website?



USER TESTING

Pretty good/Worked well
20%



Worked very well
80%

How well does the product search function work?

User side

Admin Side

3. Features and Functions

Is the function of adding/removing products convenient to use?

Very convenient
100%



Is it easy to update product information (e.g. edit price, size)?

USER TESTING

User side

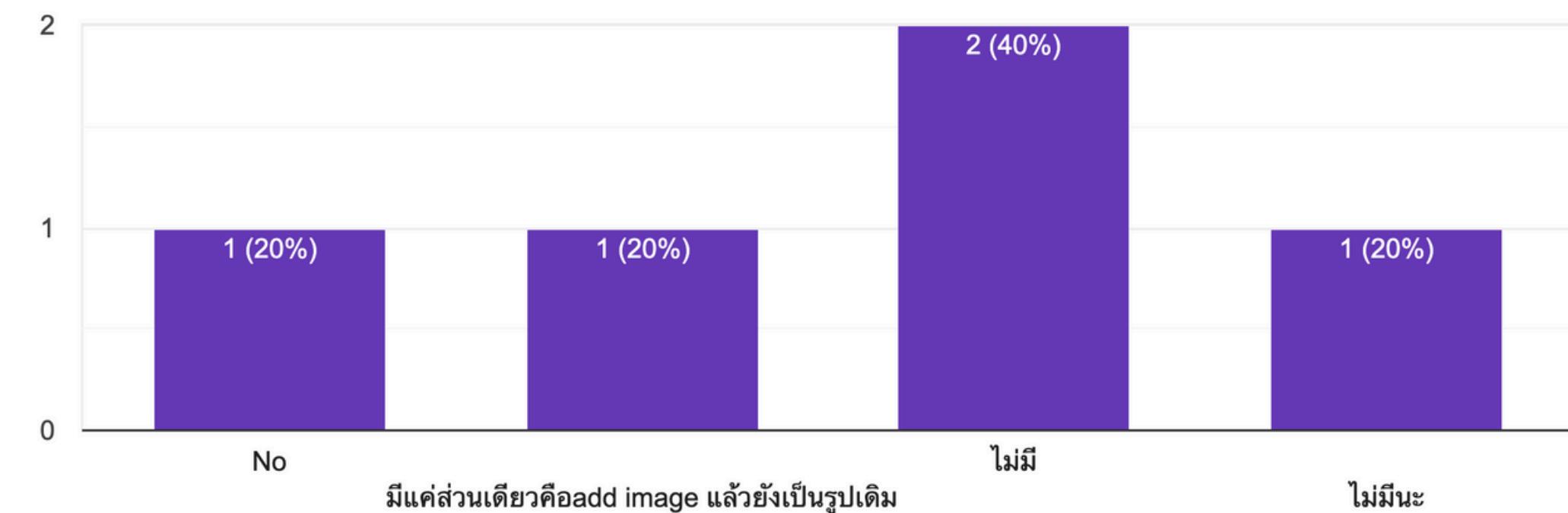
Admin Side

4. Suggestions for Improvement

4.1 What features or functions do you think are still lacking or could be improved?

- The current features are quite thorough and usable.
- There shouldn't be a **confirmation** before logging out – if users click it by mistake, they can just log in again.
- Users should be able to **edit their reviews** directly from the search or product info page.
- Ingredients should be **searchable**, as there are many and it's hard to find specific ones.
- Some steps in the "**Edit Product**" process are **unclear**.

4.2 Are there any problems encountered while using the website?





USER TESTING

User side

Admin Side

4.3 Do you have any additional suggestions for improving the website experience?

- **Notification or alert** when users enter incorrect or incomplete information
- The "**Add**" and "**Edit Product**" sections should have the same functionality for selecting skin type.
- **Videos** added to the website to make it more engaging
- It should support **mobile phones and iPads**.



System design



System Implement



Conclusion



Limitation

Limited data was available for some Thai skincare brands, resulting in incomplete profiles.

The product data was not personalized for the user (e.g. allergens, period after opening [PAO]).



Limitation

Future Work

Include and highlight small and medium enterprise (SME) skincare brands

from a website to a fully 100% mobile friendly

Provide better product personalization with product recommendations and tools for ingredient exploration.

Implement more features for improved function and superior user experience.



System design

x

|

System Implement

x

|

Conclusion

x

OBJ 1: To develop a **Thai skincare brand website** including various features

- SkinSite Website providing Thai skincare product information and management
- Skin - product Personalization

OBJ 2: To understand **the needs of users** in feature and function

- A survey on problem and features on current skincare website
- A list of problem including unclear product information and lacking of filtering and product comparison

OBJ 3: To develop a **Thai skincare database**

- A relational database consist of 125 Thai skincare product with 758 ingredients
- Data was collected from the well-known official Thai skincare brand websites



System design x | System Implement x |

Conclusion x



“

*Redefining Thai Skincare
Tailored to Your Needs
Always by Your Side*

”





Thank you
Q&A