

Criterion A - Planning

Description of Scenario:

My client is **Carolina Fox**, an 11th-grade student at Lick Wilmerding High. She wants me to make a website that recommends skincare products to her [5 - 10]. Carolina is an exceptional student-athlete who doesn't have a lot of free time on her hands. She doesn't have time to research skincare products that would be best for her, nor the money to buy a custom skincare subscription. In the past, Carolina had serious acne and bad skin and had to go to a dermatologist to address her skin issues [21 - 23]. Now, she buys skincare products based on what people on social media say are the best. The online community can occasionally be helpful, but a lot of the products being promoted are based on trends and sponsorships from brands. Right now, there is no way for her to distinguish between actually beneficial products and products that are trendy, expensive, and often unhelpful. The issue she described to me is that she has skincare problems that can definitely be addressed by certain products, but the internet has so many options she doesn't know which ones to choose or which are trustworthy [28 - 29]. There are websites out there that customize skincare products to fit someone's needs, but they are expensive subscriptions, and she cannot afford to pay for them [5 - 6]. She knows there are products out there that could help her, but she needs a trustworthy source of information. The online community has rating systems for products, but she can never tell if they're being truthful or what type of skin they have to make sure the product is an accurate choice for herself which is why she feels getting information from real people with real experiences with products would be much more helpful and unbiased [28 - 30].

Rationale:

After consulting with Carolina, we have decided that the best way to go about this is to make a website that acts as both a social media and a skincare recommendation platform [7 - 10]. The recommendation platform will consist of a skincare quiz [2] that includes photos of people of multiple skin colors with a range of skin types so that people can best see themselves in the person whose skin they think looks most similar to theirs. It will also include a more in-depth quiz to assess whether their skin is dry or oily or whether they are concerned about blackheads, acne, or other skincare concerns. The social media aspect will include a rating system and a commenting system where people can rate different products and comment about their experiences. People will be able to interact in the comment section so that they can ask previous or current users of products questions about their skin and experiences [15 - 18]. There will also be an option that will allow others to view the user's profile which shows what their skincare concerns are and a picture of the person so that they can see if their skin type is similar. That way, the user can deduce whether or not this person's skincare concerns and skin type is similar to theirs. I am choosing to make a website-based product for maximum accessibility to users

from all different platforms [60]. An app-based product would require different permissions and user requirements that would be harder to integrate across multiple devices and operating systems. This website would be an optimal solution for Carolina since it would allow her to use the website to gain the same level of skincare routine that a customizable skincare brand would offer without having to pay the subscription fee.

Coding Language Used:	Reasons for use:
PHP	I am using PHP because it is very compatible with HTML and has a quick loading time for websites. It is also very compatible with SQL for database design
HTML	I am using HTML for the visual elements and formatting since it is simple to use and easy to organize. HTML is also easy to integrate with the other languages I am using, PHP and SQL.
SQL	I am using SQL to design my databases because it is efficient to implement. SQL is also efficient for fetching data from the database. Since I am using large APIs, it will be helpful to have a simple language that will allow for easy data organization.
CSS	I am using CSS to design the aesthetics of the website. It is extremely compatible with HTML and will make for a simple but effective way to make the website look good.

Success Criteria:

- 1. The website must have a login functionality**
- 2. System should allow new users to make an account**
- 3. An error message appears when an unsuccessful login attempt occurs**
- 4. Upon creation of a new account, the website should display information on how to get started/take the quiz**
- 5. Account holders should be able to view their profile - skincare concerns and recommended products should be displayed**
- 6. System should allow users to edit their user profile i.e retake the skincare quiz + remove concerns**
- 7. The website must include a skincare quiz for account holders [23 - 24] that includes:**
 - a. Pictures of people with different skincare concerns for the user to select which one looks most similar to theirs**

- b. An option to select their main skincare concerns, including blackheads, acne, dry skin, oily skin, skin redness, large pores, wrinkles, bumpy skin, ageing, and under-eye bags [21 - 23]
- 8. **The website must be able to recommend skincare products in a comprehensive skincare routine to the user based on their quiz responses [2]**
- 9. **Displayed products should show how many stars they are rated, an image of the product, the skincare concerns it addresses, and a link to rate/comment**
- 10. **The website should recommend products in order of highest rated**
- 11. **The website must have a commenting function where users can comment on different products [28 - 29]**
- 12. **The interface should allow users to click on products to view comments [67 - 68]**
- 13. **The website must have a rating system where users can rate products using a scale of 5 stars [66]**
- 14. **The system should allow users to search for products and concerns**
- 15. **The system should allow users to filter products by brand**
- 16. **The system should allow users to filter products based on their skincare concern**
- 17. **Admin: The system should allow the admin to add new products to the database**
- 18. **Admin: The system should allow the admin to delete products from the database**

Word Count : 597