



**SECJ 3553 (02) – ARTIFICIAL INTELLIGENCE**

**SEMESTER 1 2022/2023**

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**PROPOSAL REPORT**

**TITLE: SKINFLEX**

**GROUP: PIXEL PERFECT**

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## **AI solution**

Nowadays, almost every device has been modernized according to the needs of the users. The presence of these modern technologies have proven that humans can adapt to life better and efficiently these days. Health is one of the aspects that has integrated artificial intelligence (AI) technology in its devices. These days, the concept of health and beauty is not only applied to women, however, we are now aware that everyone should pay attention to their skin without caring the gender at all because everyone should know their skin well. Most of the time, individuals always had trouble taking care of their skin since they are nescient about this. Lack of knowledge and understanding of our own body can be the reason why certain individuals have a hard time taking care of their own skin.

The main objective of this project is to provide help for the public, especially individuals that have no knowledge at all of their skin type to make sure that they are aware of how they should take care of their skin by recommending the best product based on their skin type. “Skinflex” is the title of our proposal which reflects the functionality and the purpose of the technology itself. “Skinflex” is used to detect the skin type and make sure that the users get the best recommendation of skincare with affordable price and according to their preferences.

## **The goal of AI solution**

1. To detect skin concerns and describe it in detail with less jargon.
2. To recommend suitable ingredients that one needs upon buying skincare products.
3. To sort recommended products according to one’s budgets.
4. To suggest the place that one can go to buy the products either online or offline.
5. To provide a chatbot where one can get advice directly from dermatologists.
6. To decrease the chances of buying less effective and unsuitable products.
7. To give exposure to the importance of taking care of the skin in an easy way.
8. To change the view that skincare does not require too much spending.

## **Describe the process of Empathize in Design Thinking (DT)**

We had to do a survey of the issue we wished to study before beginning the process of empathizing. We use a few different approaches to conduct the study, including:

- Making a simple survey with friends and family
- Through Internet
- Observe problem in surrounding

The group of our target interviewee is:

- Teenagers
- Children
- Adults
- Elderly

We made the decision to employ an empathy map as a technique to gather important data from interviewees. We are able to record what users say, think, do, and feel.

## **Describe the process of Define in Design Thinking (DT)**

Based on observing and doing simple research among friends, family and colleagues, almost everyone faces the same problem. Most of the respondents stated they are concerned about their skin condition, especially the face area. Many of them stated it takes multiple trials and errors to find the perfect skincare routine that works for them. A lot of them also result in seeing a dermatologist which is knowingly expensive. As most know, every skin on each person differs. We have dry skin, oily skin, combination skin, acne prone skin and many others. A good skin care routine is important as it helps skin stay in good condition. It can also help prevent acne, treat wrinkles, and help keep skin looking its best. Further observations stated, the traditional method is costly and takes a lot of time. Ultimately in the future, this problem can be tackled by inventing an artificial intelligence technology product that could help target users

Everyone of every age range is welcomed to use the product, but will be specifically targeted to youths, young adults, and users that have very sensitive skin. Inventing this product, users can easily detect their skin type, skin problems, what the skin is lacking, and also the suitable ingredients and product for each user. Using this product could help many to save their time and money. Additionally, it could also increase awareness on how important it is to keep the skin healthy.

1. User
  - Individuals who would like to know the root of their skin problem
  - Youths
  - Young adults
  - Individuals with sensitive skin
2. Need
  - To detect to root of the skin problem
  - To give suitable products for each user
3. Insight
  - Users would like to obtain a descriptive result of their skin and suitable products for them to use using artificial intelligence

