

A Virtual Cosmetic Makeup and Recommendation Android App

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Introduction

“Cloth makes the Man, So Does Makeup”

Being beautiful is a life-long career for all women. With no doubt, they spend numerous time and money on purchasing, searching, as well as testing different new cosmetic products. Unfortunately, it is common that they are unable to find even one make-up product which suits them after they have tried all displays in various stores. This is troublesome, time consuming, and inconvenient.

To facilitate women's process in choosing and purchasing appropriate cosmetic products, we develop a new Android app called **FaceT**. It is a one-stop platform which provides information of diverse cosmetic products for enhancing women's experience in shopping for cosmetic products.

What is FaceT?

Using technology to masquerade the user's face

FaceT
Main theme of the app Technology

Objectives

To ease users in finding out the cosmetic products which suit them best

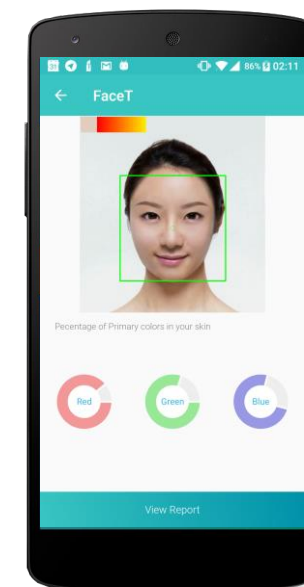
To locate retail stores selling concerned cosmetics

To help users understand the effects of different makeup products

To provide a platform for users to share their views on different cosmetics

To allow users' contribution by letting them add new cosmetic products to the database

Function Design



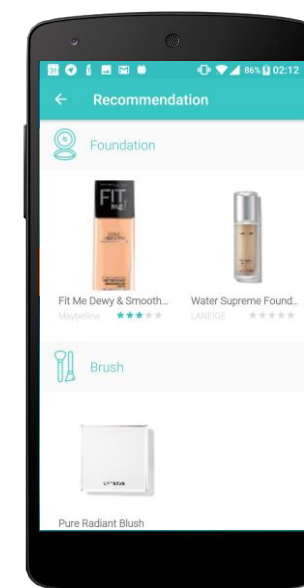
1. Skin Color Detection

Users can take a facial picture or import a facial image for detecting skin color. She can obtain the result of her skin color.



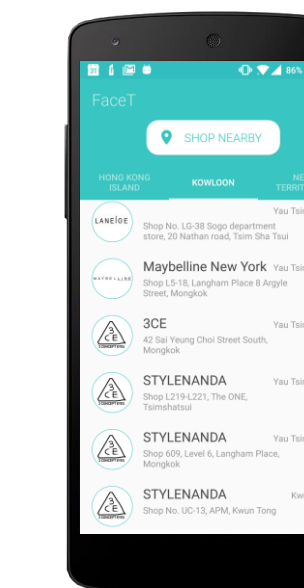
2. Virtual Makeup

Users can take a facial picture or import a facial image for performing virtual makeup. She can choose any cosmetics and see their effects immediately.



3. Product Recommendation

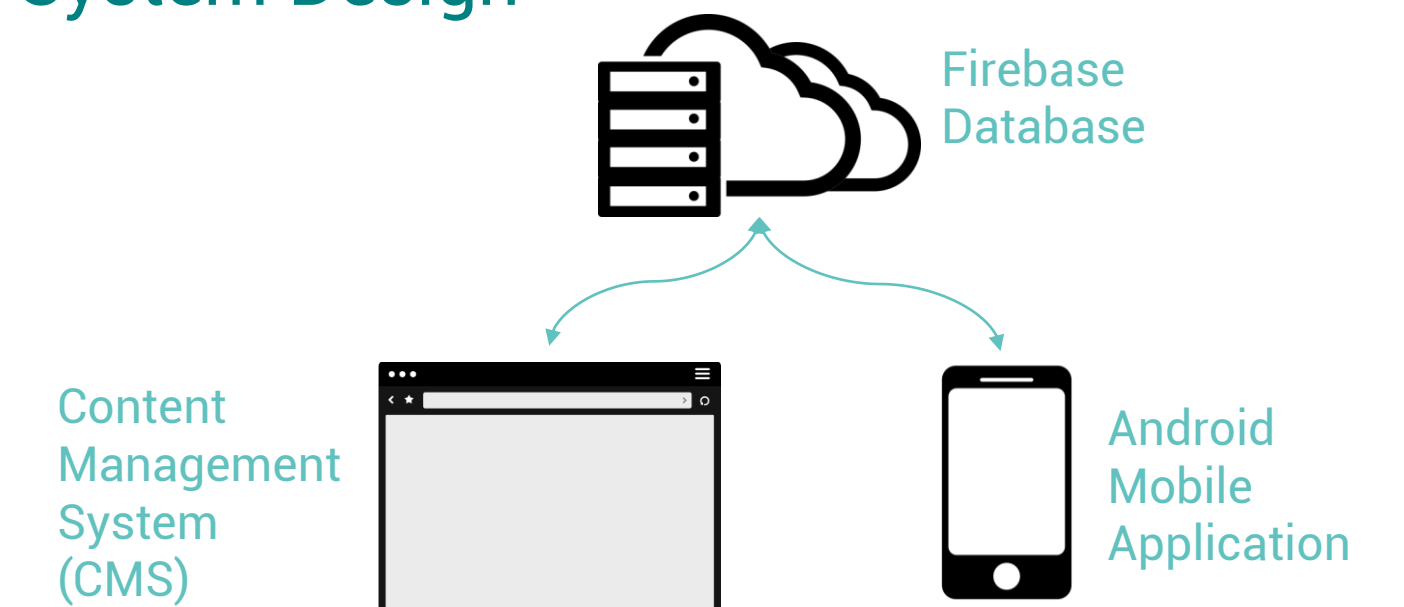
The function will analyze the facial condition of a user and recommend some suitable makeup products which fit her skin, lip or eye color



4. Store Locator

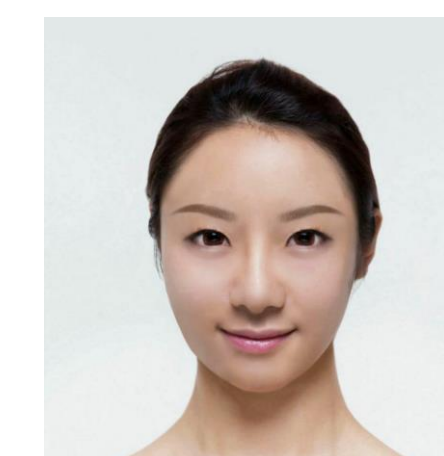
Users can search for the nearby shops or retailers selling a certain product, which saves their time from walking around and finding the cosmetics they want.

System Design



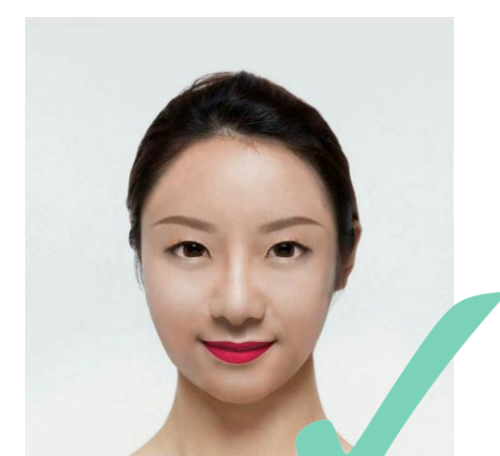
Result

If the results are natural and harmonious in general, the algorithm is a good makeup algorithm.



Before

Virtual Makeup function



After

Conclusion

Contributions to Users:

- Reduce time in the searching for cosmetics
- Test the makeup products in anywhere at any time

Contributions to Industry:

- Provide the 1st integrated platform for testing makeup
- Provide a framework for later similar app
- Change the business model of the industry