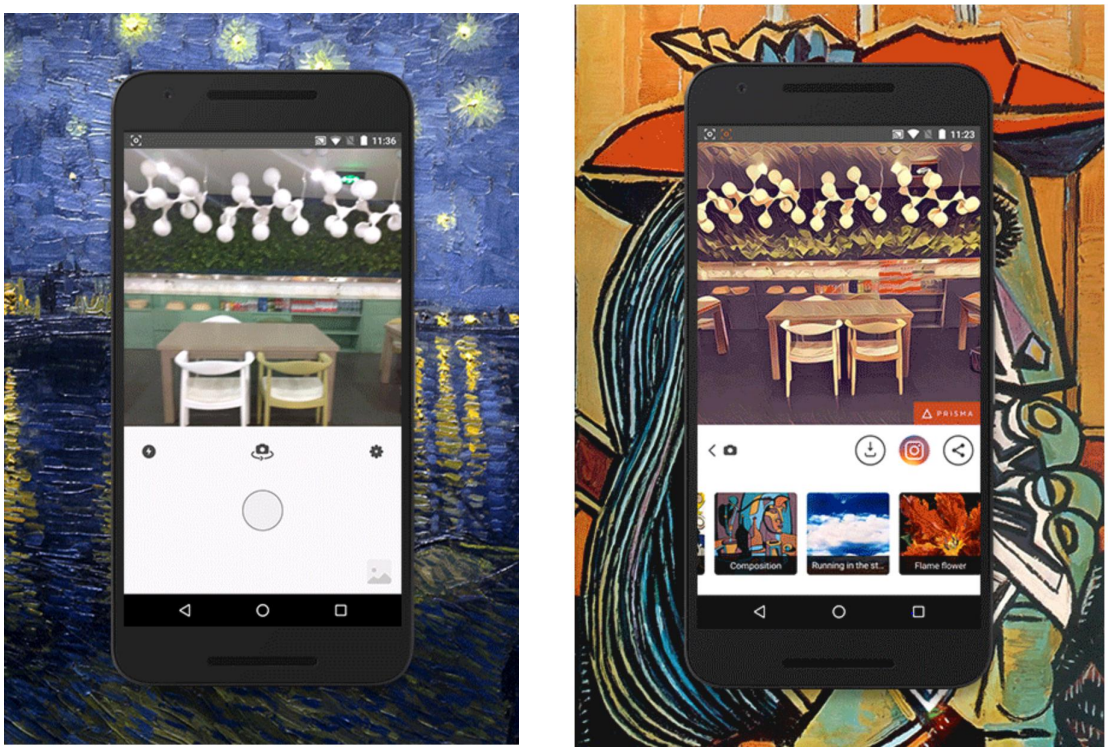
Criterion A: Planning

DEFINING THE PROBLEM

Image stylizing is a new technology that people are very happy to use to change the image into a style whatever they like. What is meant by image stylizing is that you can pick out and store the style of a images and apply that style on another image. It is all about the process of identifying and then applying.



(example of picture stylizing).

Having identified the problem, my IB computer science teacher agreed to be my advisor. My classmate John as my client would like to be the tester and also the end-user as he/she enjoying the process of stylizing pictures since he is an art student.

RATIONAL FOR SOLUTION

The reason why I want to create a program that already existed in many ways is that there are a lot of programs which have hundreds of styles of transforming images into another look. But it’ s hard to find a program which can identify the style of a picture and then applying it to another picture. Also, the style which has been identified should be able to be stored for the client who really like it and would like to use it some other days. The aim of

my solution is to make a real free image stylizing. There’ s no limit of styles, the client are now able to pick out and store any style from a picture they like and also freely use it.

Finally I decide to use python as my programming language for following reasons:

- I need good GUI and python is able to do that.
- A lot of project which I could use as help were created with python.
- It as advantages dealing the graphic projects.
- I have learned python in my computer science classes. I’m more familiar with it.

SUCCESS CRITERIA

For my solution to be a successful one, my system should have following functions according to my client:

- Have a complete GUI(Graphical User Interface) for users. Easy for the user to identifying the function of my program and use it as well. The GUI should be simple and beautiful.
- The user can upload an image to the program and the program will identify the style of that image. This should be achieved by identifying the data of the picture such as brightness, saturability, shadows and so on.
- Correctly store the data as the style that has been identified from the image user uploaded. It should allow the user to name the style and can be renamed later.
- The user can upload an image and then apply one of the style that was stored. During the process, the program should allow the user to cancel the style that is now on the image and also allow the user to change the style from another stored data to replace the current one.
- There can be another additional function as a filter. This filter should allow the user to change the value of data of the graph to a number whatever they want as it’s in the range of limit. So the user could create the picture completely to a style they like.