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October 23, 2017

Project 1 Reflection

I made an app called Colours which generates a random palette of colors. Five colors are displayed with their respected hexadecimal values. Ever since I have been designing, I always needed an app or a website to help me pick a unique set of colors for that particular thing. This is one of the main reasons why I wanted to make this app. I think I am happy with the app that I created but I am definitely not satisfied with it yet. I want to make the app run more efficiently and add more features which will be useful for an user.

For the creative side of the project, I wanted to make this app very minimalistic. The design that I thought of had simple five buttons with the hex code in the middle. And after pressing the generate button, it would change the colors and the values. But, I added a simple animation using wobbliness and delays to make it look a little bit more aesthetically pleasing. Instead of these colors just changing, it added a simple motion which engaged an user a little bit more. This was the “scheme” mode of the project. For the “outline” mode of the project, it had sliders which tweaked the color of the button above. I changed the tint of the sliders to be red, green and blue so I could avoid three less labels and give it a simple look.

For the tactical side, for the scheme, I generated an array of random floating points, which goes to the 15th decimal place, and applied those individual values for the background color of the buttons. As these values were 15 decimals long, the chances of two numbers being the same were very minimal. So, the results were pretty good. These were all random numbers and there wasn't really an algorithm that ran which checked the similarity or differences between the five colors. I also wrote a converting algorithm which changes decimal to hex using modulus. I think the random algorithm works for beginners and it is efficient enough if the user is

patient enough to try to generate a couple of different palettes, which is usually the case when someone uses a palette generator. I also added a feature where if an user wants to tweak one of the color generated on the scheme mode, they could press the button which would segue them to the outline mode and let them tweak the color even further. The data was being pass from the scheme mode to the outline mode.

I think the animation that I added for the scheme mode was successful! I really enjoy watching and seeing the color change as the subtle wave flows down the screen. Without this simple animation, the generate process would look dull. I think this went well. I didn't have a specific color generating algorithm so, I think my app was efficient for 50% of the time as it did have unique palettes. I, personally, have already found 6 unique palettes that I really like! So, overall I think the generate process went well. But in the future I will definitely add more algorithms to provide an even better experience for the user. I have ideas about expanding this app to make it more efficient and adding algorithms such as the Triadic color scheme - offering high contrasting colors schemes while retaining the same tone - and a complementary scheme - offering colors from opposite sides of the color wheel. I will also add an algorithm to generate only shades of red,blue,green, light colors and dark colors.

I used multiple segues to go the same view controller, which was not efficient! I tried messing around with the sender tags and after spending couple of hours on stack overflow, I gave up on using one segue to transition, there for I had one segue for each button. This was a little inefficient but it still worked! The auto layout for the scheme mode went very well! I used stack view to make it appropriate for each view. The auto layout for the outline view whereas wasn't as great. I tried adding stack view and properly sizing them but Xcode kept freezing on me and giving me result where the size of the sliders kept increasing and it would make me force quit Xcode. But overall, I like the general functionality of the app and how it can help users

find something unique! As I said before, I am happy with the outcome but I am definitely not satisfied! I will work on making this app more efficient and add more features which will attract users!