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CMPT 220
Project Proposal
EasyPhoto

I like photography, In the DSLR world (Digital Single Lens Reflex) it's difficult to get yourself out of automatic controls. You truly know how to control your DSLR camera once you learn the relationship between shutter speed, f/stop aperture and ISO. My goal in this to make photography for DSLR camera photographers. In photography aperture control and shutter speed and ISO levels are very important fundamentals to understand. For a sharp tack image distance, focus, aperture, lens camera body all play a factor in producing a sharp tack image. The hardest concept for an amateur photographer to grasp is learning to use proper f/stops. F/stops is essentially the iris of the lens of the camera to open and close allowing a certain level of light in depending on what depth of field you are trying to accomplish. I want to create a program, which there are many out there, but I want to create a better more efficient and user friendly. Variables that will be important for the program are; type of composition, lens type and prompts such as; Long, medium, short depth of field. If I can get the user to input those variables, then I will be able to create an algorithm to produce the distance the photographer needs to be from the subject of his composition with the proper f/stop aperture to produce the depth of field that the photographer desires. The program will also explain and illustrate what happens when they manipulate the properties of aperture, ISO, contrast, shutter speed. Realistically you can't attract user to interact with your program if it's not aseptically pleasing than it is not interesting. I believe that this program is completely feasible as all the functions on the camera works with integers and fractions. I know that it will be difficult but It's a project that I am genuinely interested in making. Knowing what I know about the inverse relations between f/stop aperture, shutter speed, and ISO will hopefully make coding project slightly easier.