CST 205 Design Doc

What are we going to build?

What is the mission of your product? What is the purpose of your product? What is the need? What is your solution?	The purpose of our product is to give users the ability to easily retrieve images from NASA and manipulate them. The need is that sometimes people want to manipulate images, but don't want to open up photoshop or paint. Our solution is to give the user simple options that allow them to do similar things you would do with photoshop.
Who is your target audience? Who will your users be? How will your product serve these people?	The target audience is people who want to add filters to images, who may not have the necessary knowledge to do so themselves. Our product will give users a preset list of filters that they may then choose from.
What are the design features? What kind of features will this product have to meet the needs of the audience?	This product will allow users to use a webpage to search through the NASA API. It will then give the users options for filters that they wish to place on the image.
What is the user onboarding flow? What will the users see when they open your application? What are the steps that users will go through to use your product?	When the user opens the webpage, they will be greeted by a search bar where they can enter what kind of image they are looking for. After entering a search term they will be able to see a list of images that match the search criteria that they will be able to choose from. When the user selects an image they will be redirected to a different page with their image and some options for manipulating the image. After selecting the options for how they would like to modify the image and clicking the submit button the modified image will be displayed.

Additional questions

1. Which Python libraries do you plan to use?

We plan to use PIL, Flask, and Bootstrap.

2. APIs and How You'll Use Them: If you plan to use any APIs (like Twitter, etc.), list them here and describe how you'll use them.

We will be using the NASA API to retrieve images and apply image manipulation to retrieved images.

3. How will you break down the work? Who will work on what?
Albert: image filters
Yvonne Cruz : API, starting files
Shawn: image manipulation
Niel: extracting images from URIs, CSS

4. What are the milestones for the project?

12/07/2020 - Milestone: To get everyone assigned to a role and start research and beginning code for the project.

12/14/202 - Milestone: To have a full working website and connect all our features so they work smoothly together

5. What will the most challenging part be? What do you expect to be the hardest part, and how will you approach it?

The most challenging part of this project would be to come up with an idea for the project which encompasses what we learned in class. The idea would also need to combine the different ideas into something creative, useful, and doable in the time limit that we have. The way we will approach this is by thinking about what we each enjoyed learning most in class and combining our ideas into one cohesive project with multiple features.