Design Doc

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“Erinstagram”

**Overall Behavior:**

Display a menu to the user that has different choices for the user to make about images. With an image, the user can choose the brightness of the image or crop a certain part of the image. After altering the image, the user can display it and exit the program to start again.

**Functions:**

main()

Data: 2d array and dimension variables of both original image and edited image. File pointer to image file, index variable.

Behavior: present the user with options to work with images. Options to choose an image and display it along with options to edit the image. Repeat these edit options in a loop.

crop()

Input variables: int original image array, int original dimensions of the image, int cropped array dimensions.

Returned value: none

Behavior: read the original image array and take the new dimensions and create a new image array featuring only the contents of the original image in the new dimensions.

dim()

Input variables: int image array, int dimensions of the image,

Returned Value: none

Behavior: take every pixel of the image and reduce the brightness of the image by one step

brighten()

Input variables: int image array, int dimensions of the image,

Returned Value: none

Behavior: take every pixel of the image and increase the brightness of the image by one step

rotate()

Input: int image array, int dimensions of the image, int array pointer of rotated image

Return: none

Behavior: take the dimensions of the image and swap the rows and columns

display()

Input: int image array, int dimensions of the image.

Returned Value: none

Behavior: display the contents of each index in the image array

load()

Input: int image array, int dimensions of the image, file pointer of image

Returned: none

Behavior: read the image file and store in variable inside the main function