Design Document

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Project: Erinstagram!

Data

Brightness Values – an array of type int size 5

User file in – FILE*

User choice – char

User file out – FILE*

Image – 2Darray of type int size to be determined in the program

Process

The user loads a file into the program. Then, the user chooses different things to do with the image. Then, the user can load a new file.

Functions

main() (04/30, Jaidunn)

Data: int brightVal[5] FILE* userFileIn char userChoice FILE* userFileOut int rows int colsint Image [][] int x int y

Algorithm: get file from user, check null, get image from file, show menu, save image

crop() (4/30, Glen)

Input Parameters: int rows int cols int Image [][cols] int x int y

Algorithm: starting from x, go to rows, and starting from y, go to cols

dim() (4/30, Jaidunn)

Input Parameters: int brightVal[5] 5 int rows int cols int Image [][cols]

Algorithm: going through the entire array, switch out the vault for the one in brightVal[somethig in funtion - 1]

brighten() (4/31, Glen)

Input Parameters: int brightVal[5] 5 int rows int cols int Image [][cols]

Algorithm: going through the entire array, switch out the vault for the one in brightVal[somethig in funtion + 1]

rotate90Deg() (05/01, Jaidunn, Glen)

Input Parameters: int rows int cols int Image [][cols]

Algorithm: : going through the entire array colloum then row, copy into new arrayand return that instad

outputImage() (05/01, jaidunn)

Input Parameters: int rows int cols int Image [][cols] FILE* userFileOut

Algorithm: going through the entire array and outputting to a give file ponter