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Project: Written Report

Our project is contained within a folder called Turturem, which is the name of our group. The folder contains 2-4 files and 3-4 folders (depending on whether the program has been run before). The two files necessary to run the program are project_start.py and imageTools.py, while the other two files, card.jpg and undo.jpg, are created by the program. They are not necessary to run the program and are rather an aftermath of the program having been run. The file imageTools.py is necessary, as the file project_start.py requires it to perform most of its image manipulations.

The folders are as follows: MediaSources, stickers, text, and __pycache__. Much like card.jpg and undo.jpg, __pycache__ is a folder that is an aftermath of the program being run, rather than a necessity to run the program. The MediaSources folder is optional, and has a purpose mostly for the sake of testing the program. MediaSources contains image files that can be used by our image-manipulating program to create example cards or test the functions of our program.

The stickers and text folders share similar purpose to one another, and are necessary to run the program. Both stickers and text contain JPEG image files that the program will call to. They contain the images, drawn by Kelli, that will be placed on the greeting card should the user choose to add either stickers or text to their program.

We are confident that our program (which is run by executing project_start.py) is devoid of bugs in all of its image manipulations, and that its manipulations can be used in succession. We are also confident in our undo button, which will disable itself if the user attempts to use it in succession (as undo can only work once in a row).

We tested our program by using multiple types of images at varying sizes, using our functions in various orders and successions. Various bugs were ironed out in the process— such as stickers and text never being allowed to exceed image sizes.

The bugs that still continue are as follows: The “single out red” function will oftentimes not only single out red colors, but orange as well (which often will look messy if the ‘orange’ is simply a shadow of a yellow surface). The stickers will oftentimes have white or black pixels that remain around the image once placed as well.

This project helped us get far more familiar with both the use of tkinter as well as imageTools. We were surprised by how many of our ideas that, at first seemed to be more of a stretch of the imagination, were, in fact, possible to do in python (such as sticker placement). We were disappointed to have not been able to include size transformations or varying types of greeting cards (rather than just the inside of a foldable card). In the future, if we were given the chance to do this project again, we would implement those features right off the bat and begin the basis of the project in a way that allowed for more flexibility in the kinds of cards one could create.

Bibliography

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