



# TESTING

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# UNIT TESTING

- Testing and processing uploaded images
  - open cv
  - increase the resolution and quality of the desired artwork

# INTERFACE TESTING

- Our main interface will consist of a GUI
  - User can install on a computer.
  - Simple
  - Quick
  - display the image upon uploading it.
- test the coding interfaces
  - Debugging
  - remove any unnecessary image processing

# INTEGRATION TEST

- Begin integrating each function of our image processing code
- Testing that they can work together.
- Using the debugging function
- Combining our edge detection, perspective correction, noise reduction, and image stitching functions
- Have them all run together synchronously and return the correct results

# SYSTEM TESTING

- GUI
  - Upload capabilities
  - “Scan” button
  - Results it displays.
- Code
  - ensure each function is working properly

# ACCEPTANCE TESTING

- We will repeatedly test our program ourselves
- Determine if the photo looks more detailed than the original.
- Allow our client to test it
- Open the program to the public for anyone to use

# REGRESSION TESTING

- When incorporating a new piece of our program
  - We will test it alone to make ensure that it properly works
  - We will then combine it with another function run them together and see what it will return.
  - If it returns the incorrect results we will begin debugging the combined functions
  - Process will continue until each function is incorporated and our desired results are given.