**Cyber Security Tasks**

*Motion Product Images*

1. Validation of image URLs – Completed

When scraping images from Google and Bing, the images are not checked for validity. This raises concerns about vulnerabilities when downloading these images straight from the internet. As a result, the cyber team tasked us with creating a function to check the URLs of the images as a security measure.

1. Race conditions – Completed

Our program has a run button on the GUI, which originally could be pressed multiple times after being pressed once. Since pressing the run button once would create a thread to run the program, pressing it multiple times would open the possibility of race conditions. To combat this, we blocked the run button from being pressed more than once while the program runs.

1. Block multiple directory windows – Completed

Our earlier version of the image scraper application created a window that links the user directories on their device. The issue with this was that the user could open multiple directory windows, which the cyber team wanted us to correct. To fix this issue, the new directory window links directly to the user’s system. As a result, multiple windows cannot be opened.

1. Remaining security concerns – N/A