**Detailed Contribution for Motion.com Images Project**

**Drew Wolfe**

* Created the project website, including the “Meet the Team” page, sprint documents page, and uploaded project video
* Worked on getting Context URLs from Motion.com and incorporated product numbers to be looked up by these URLs.
* Implemented Context URLs, contributing to the functionality of the image scraper and search process.
* Conducted extensive research and experimentation on how to make the program cloud-based, trying out different approaches to ensure the system could scale and run effectively in the cloud.
* Worked with the team to integrate the cloud-based features into the application, ensuring seamless functionality across different platforms.

**Shan Sahib**

* Improved the security of the project by adding a URL security check to ensure the integrity of the URLs used for image scraping.
* Made sure the images being downloaded were in the correct format and protected from potential malware or security vulnerabilities.
* Enhanced the program’s functionality by ensuring that when browsing the computer, the user cannot access or see important OS files, ensuring privacy and system security.
* Created Mac executable files and a Docker file to ensure smooth execution across multiple platforms.
* Updated the graphical user interface (GUI) to accommodate security and usability features.
* Created and maintained the ReadMe file for documentation, explaining the project setup, installation, and security features.

**Hunter Reinhart**

* Developed and updated the graphical user interface (GUI), adding new features and improving user experience based on team feedback.
* Implemented the ability to run a specific range of entries in the image scraper, enhancing its flexibility and efficiency.
* Worked closely with Hamza on continuous improvements to the GUI, including refining the design and functionality to make it more intuitive.
* Updated the search functionality to integrate Context URLs, allowing for better product searches and image results.
* Created and managed the JSON file that stores and organizes the data being retrieved by the image scraper, ensuring its proper usage in the application.
* Collaborated with Drew on experimenting with cloud-based solutions to enhance the program’s scalability.

**Hamza Adnan**

* Created the initial image scraper program that searches Google and Bing for product images and parses the results.
* Integrated the Excel parser into the image scraper to organize and store relevant data efficiently.
* Worked continuously on improving the GUI, addressing usability issues and integrating user feedback for better interaction and functionality.
* Created sprint retrospectives to evaluate progress after each sprint and identified areas for improvement.
* Created a demo video showcasing the project and its functionality, which will be published on the website to demonstrate how the application works.
* Worked on refining the search query of the image scraper to get more accurate and relevant images.

**Sammy Allen**

* Worked on the Excel parser and created the Windows executable files, ensuring the scraper works efficiently across different operating systems.
* Created the image formatter, enabling images to be resized to 64x64 or 496x496 pixels, and ensured that they were placed in their respective folders based on the format.
* Played a key role in organizing how the images are stored and formatted, streamlining the process for easy access and use in the final application.
* Led the communication with our sponsor, organizing meetings, setting them up, and acting as the main point of contact.
* Managed the project’s sprint backlogs, ensuring the team stayed on track with deliverables and deadlines.
* Supported the team in ensuring image formatting met the project requirements and maintained high-quality outputs.