

AUTOMATIC APPAREL OUTLINER – USER MANUAL

NOVEMBER 2020

VERSION 1.0

Contents

INTRODUCTION 3

INSTALLATION 3

ACCESS THE WEBPAGE..... 4

WORKING WITH AAO 4

INTRODUCTION

Automatic Apparel Outliner (AAO) webpage is designed to draw outlines around the section of images containing articles of clothing in photographs. This manual provides the user with steps and instructions how to upload image and generate segmented image and apparel outlined image. Once these images are generated, they can be downloaded on user device.

INSTALLATION

The following installation instructions assume that you are planning to host the application on your website. We assume that you have access to a virtual machine in which you can build and deploy a Docker image.

1. Clone the Automatic Apparel Outliner repository and change directories

```
$ git clone https://github.com/sloanlipman/automatic-apparel-outliner.git
```

```
$ cd automatic-apparel-outliner
```

2. Run the setup script
 - a. Run the provided script
If you Windows VM, run **.\setup.bat**
If you have a Linux or a Mac VM, run **source setup.sh**
 - b. Follow the prompt to provide your domain name, including http:// or https:// as applicable
 - c. Verify the change.
 - i. The script will print out Angular's environment configuration file. Make sure that your API_URL looks correct

Sample output:

```
export const environment = {production: true, API_URL: 'http://aao.ninja:12345'};
```

You will want to make sure that the value of API_URL points to your domain at port 12345.

- d. If everything looks fine, let the script run. It will build and start the application as a Docker image. Otherwise, if you notice a mistake in the API_URL, abort the script and try again.

ACCESS THE WEBPAGE

AAO webpage can be accessed through following link on web browser.

<http://YOURDOMAIN:12345/home>

Note: if you are hosting the application on a website, replace localhost with your domain name.

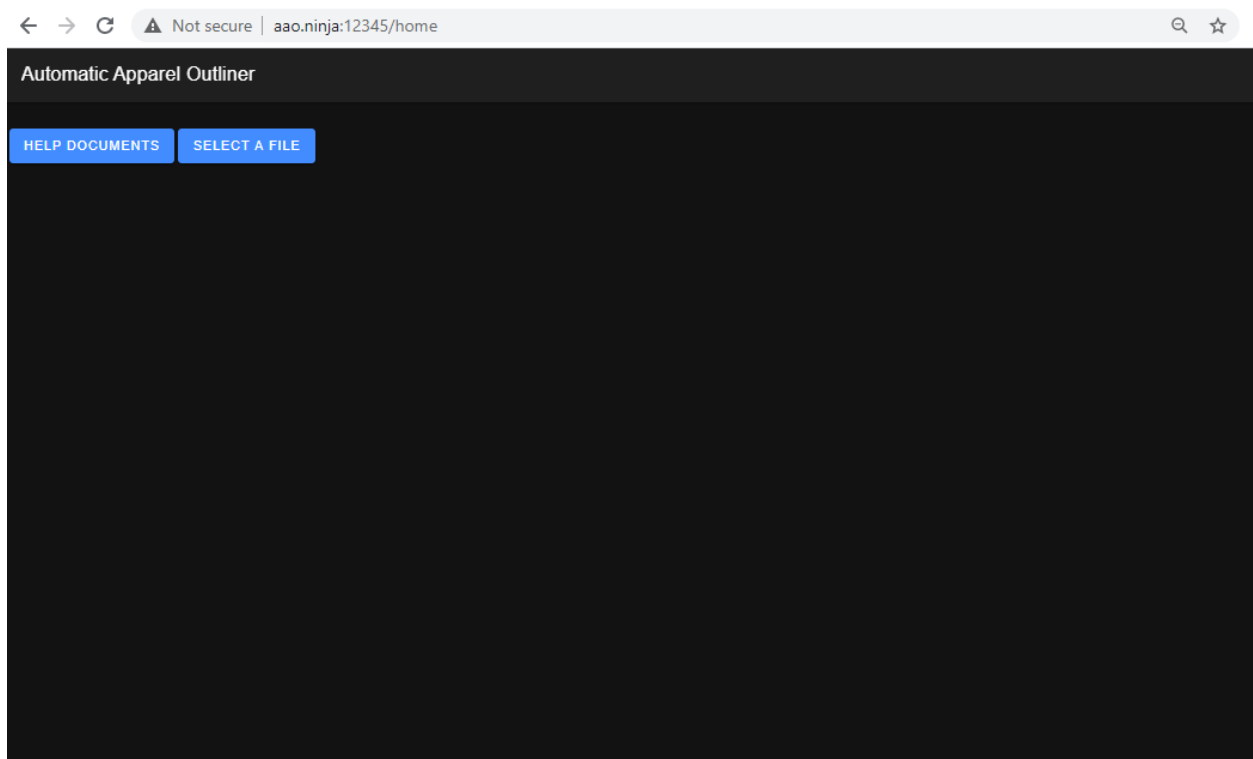


For optimal performance of the AAO, we recommend using Chrome, Firefox, or Safari.

WORKING WITH AAO

The following are the detailed steps and instructions to use AAO application

1. AAO webpage is displayed on the web browser when clicked on AAO application link <http://YOURDOMAIN:12345/home>

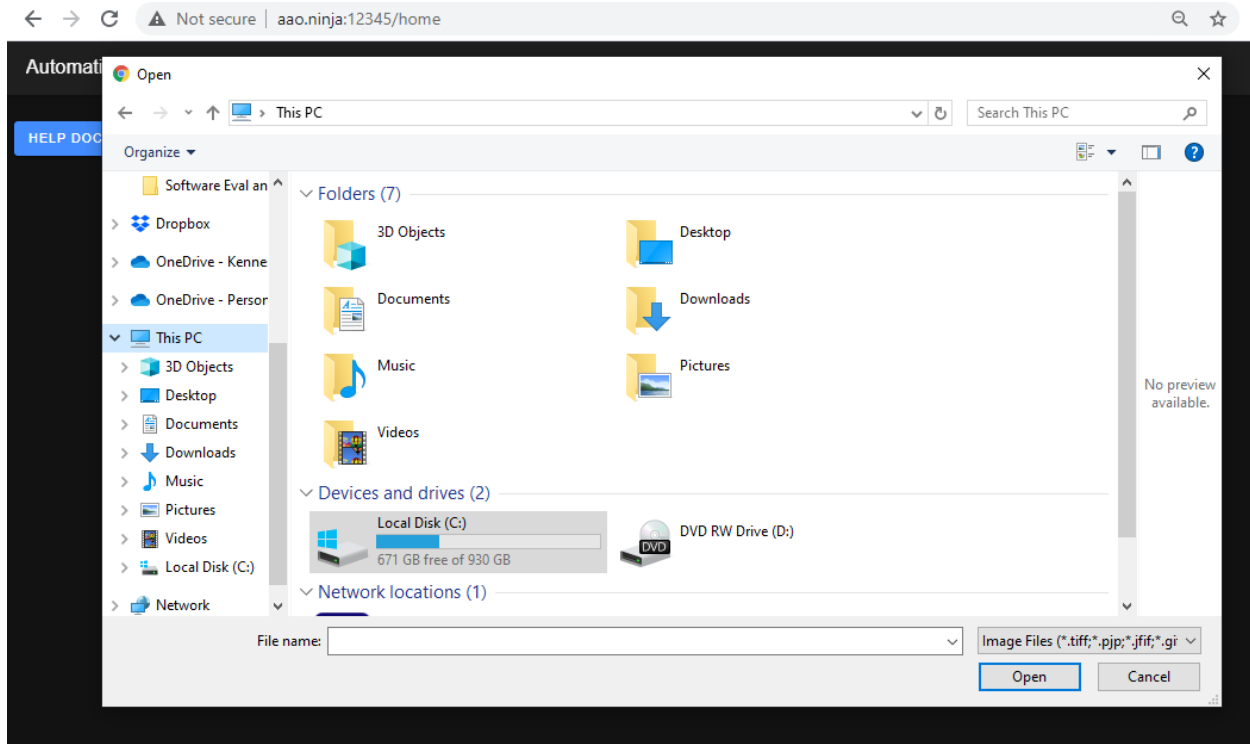


AUTOMATIC APPAREL OUTLINER

2. You can click on the button “SELECT A FILE” and browse through your device to select an image to upload. The selected image should be of type JPEG, PNG or BMP. Once you select a file, click on “Open” in the bottom to upload that image.

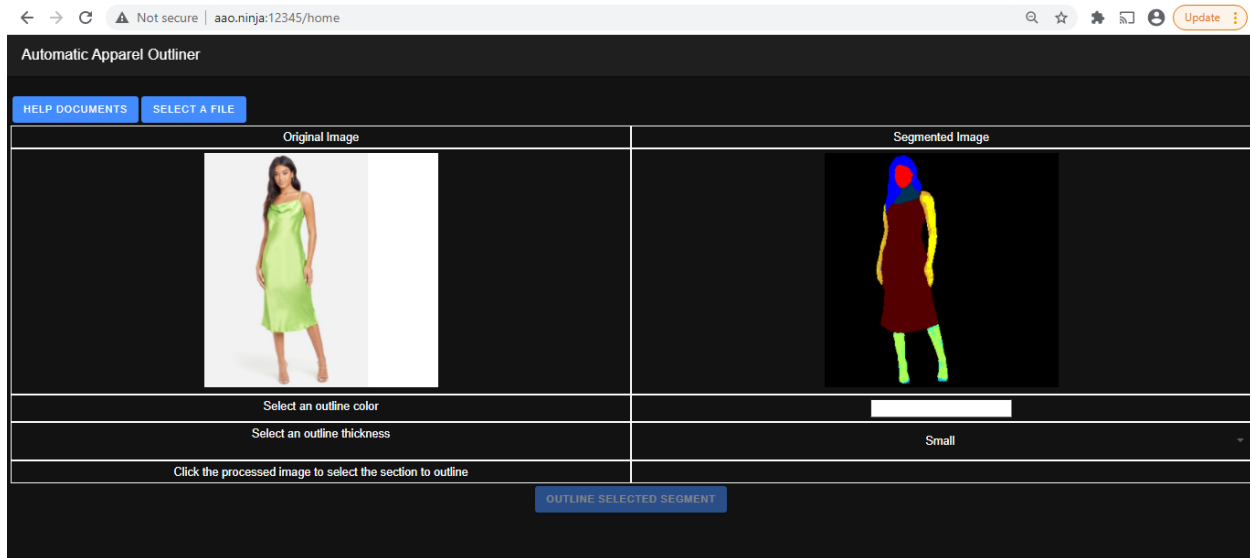


Select an image with good resolution, white background, and only a single model in it for the best results.

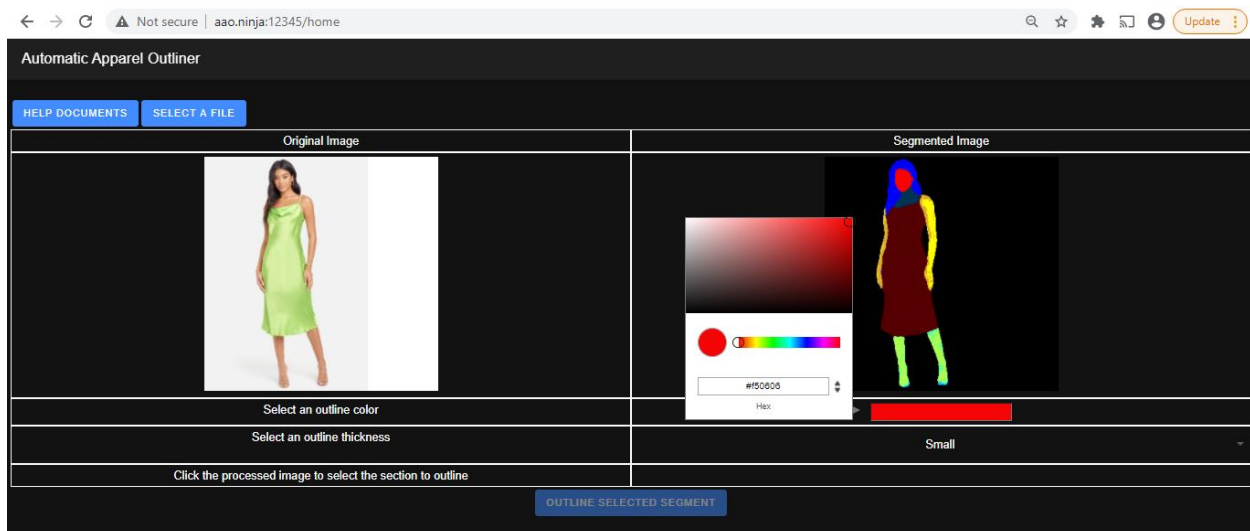


- Once image is uploaded in AAO application, it will show uploaded image on the left side and segmented image on the right side. Segmented image will have multiple sections in different colors detected by edge detection algorithm. It allows to distinguish the apparel section(s).

AUTOMATIC APPAREL OUTLINER

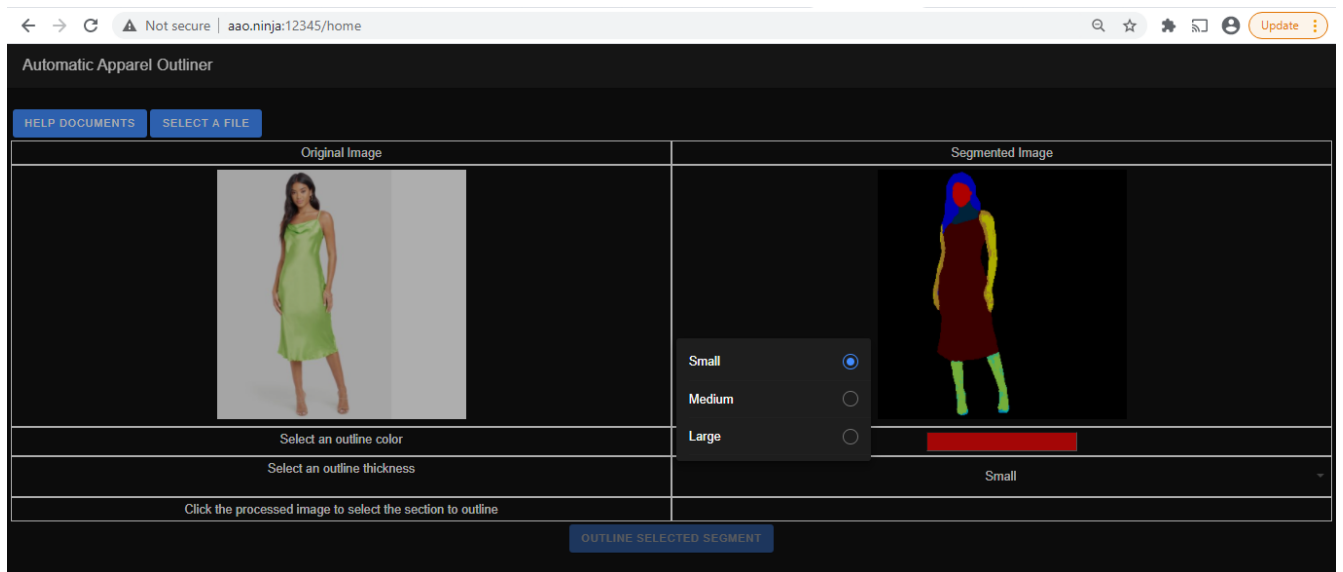


4. AAO offers customizing outlining color and thickness of an outline. You can select any outline color for the apparel by clicking the box next to “Select an outline color” under Segmented Image section. Click on the desired color for the outlining apparel from color bar and select the shade from above box. Selected color shade appears in color selection box.

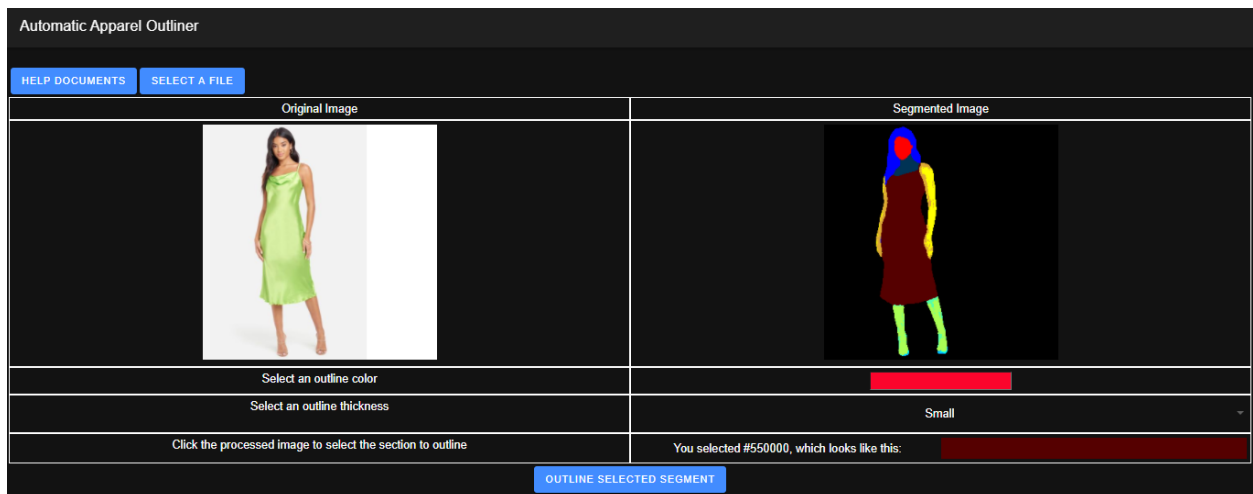


5. To select the thickness of an outline, click on the box next to “Select an outline thickness” under Segmented Image section. It will bring a small box with options Small, Medium and Large. Choose the desired option by clicking on either of them. Selected option appears in the thickness selection box.

AUTOMATIC APPAREL OUTLINER

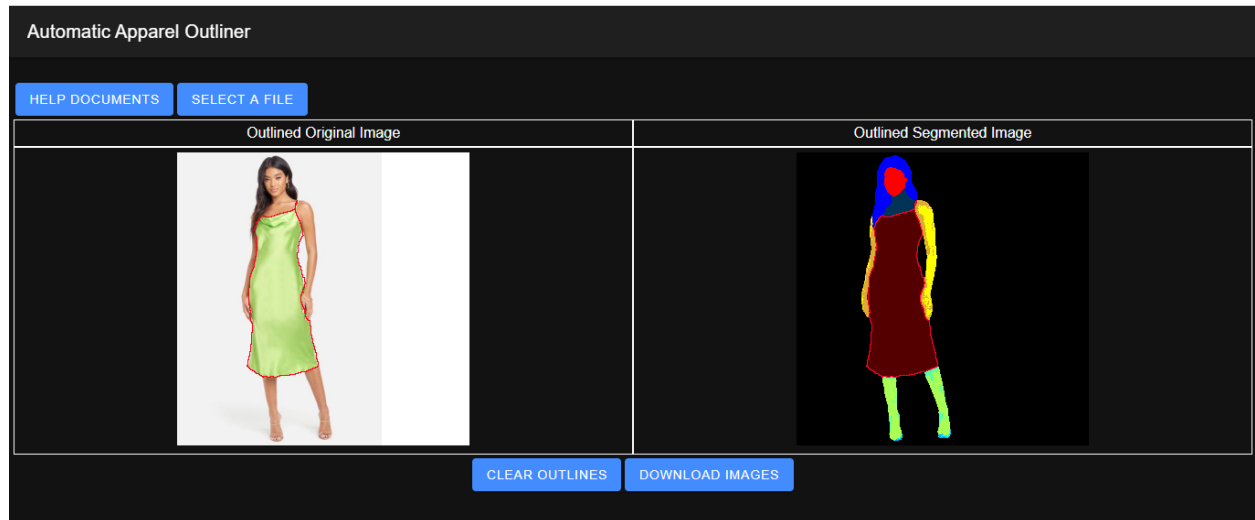


- Then click on the desired apparel section to apply the outline in the Segmented image. Once you click on the apparel section, the apparel section color is displayed in the box next to “Click the processed image to select the section to outline” under Segmented Image section. It confirms chosen section to apply outline.



AUTOMATIC APPAREL OUTLINER

- Once all three selections are done, click on the “Outline Selected Segment” button at the bottom. It generates outline with selected color and thickness in both uploaded image and segmented image around the section of the apparel selected.

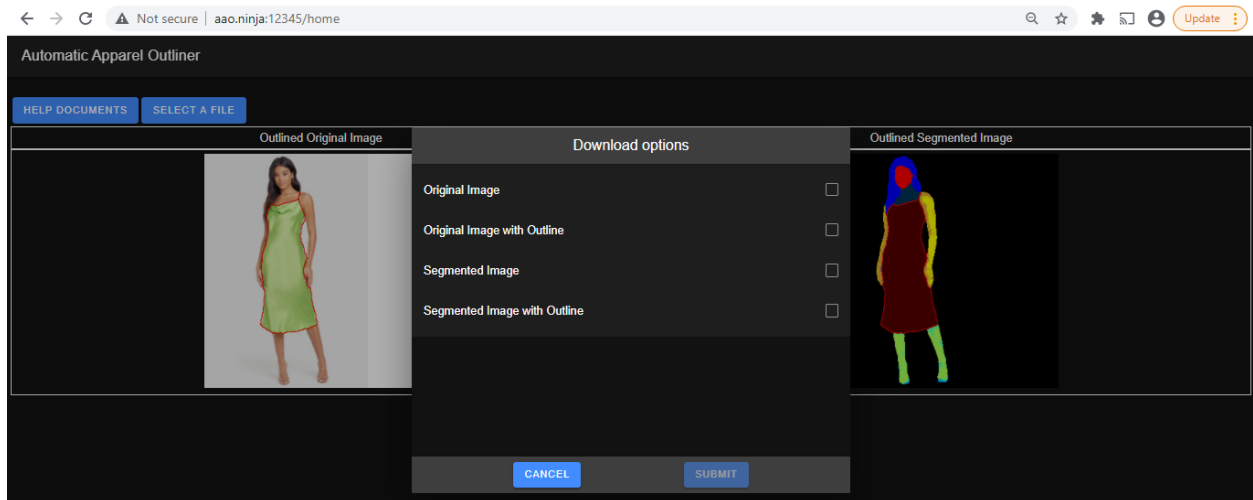


- To reset the selection and select different color, thickness or section of the image, then click on the “CLEAR OUTLINES” button. It clears the outlines from Original Image and Segmented image. Select different color, thickness and section of the image as desired.

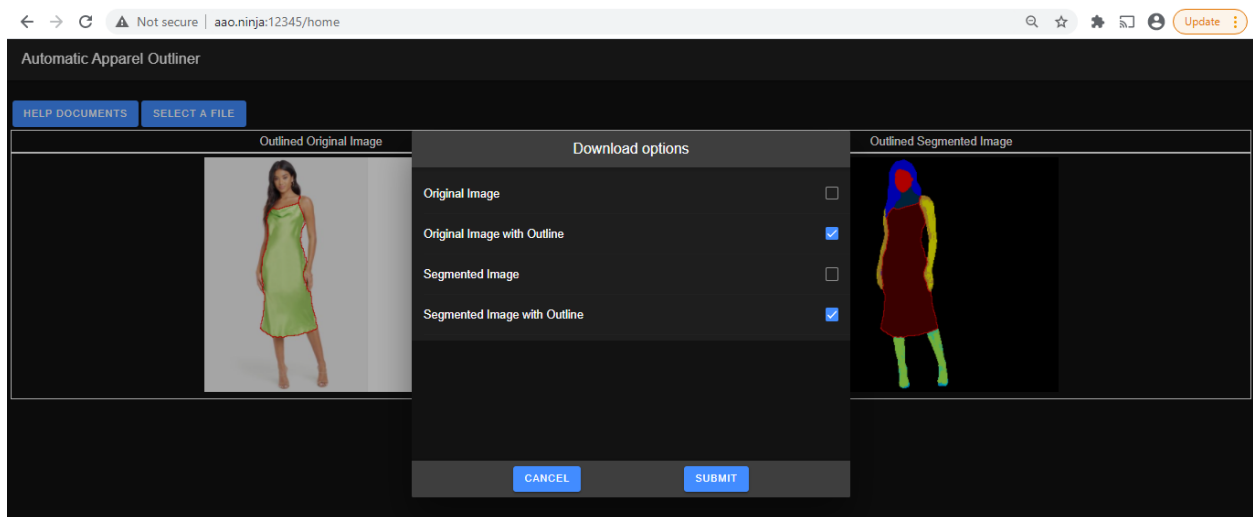


- Once Original and Segmented image outlined as desired, download them by clicking on “DOWNLOAD IMAGES”. A Download Options modal will appear with different images options to download.

AUTOMATIC APPAREL OUTLINER



10. Click on the small square selection box next to image options and click on "SUBMIT" to download selected image options. Click "CANCEL" to go back to previous step.



11. After clicking SUBMIT button to download selected image options, a zip folder is saved on user device containing all the images you selected to download. Selected image options are then available for use.

AUTOMATIC APPAREL OUTLINER

