University at Buffalo The State University of New York

PHOTO EDITING - Development

CSE 611 – MS Project Development

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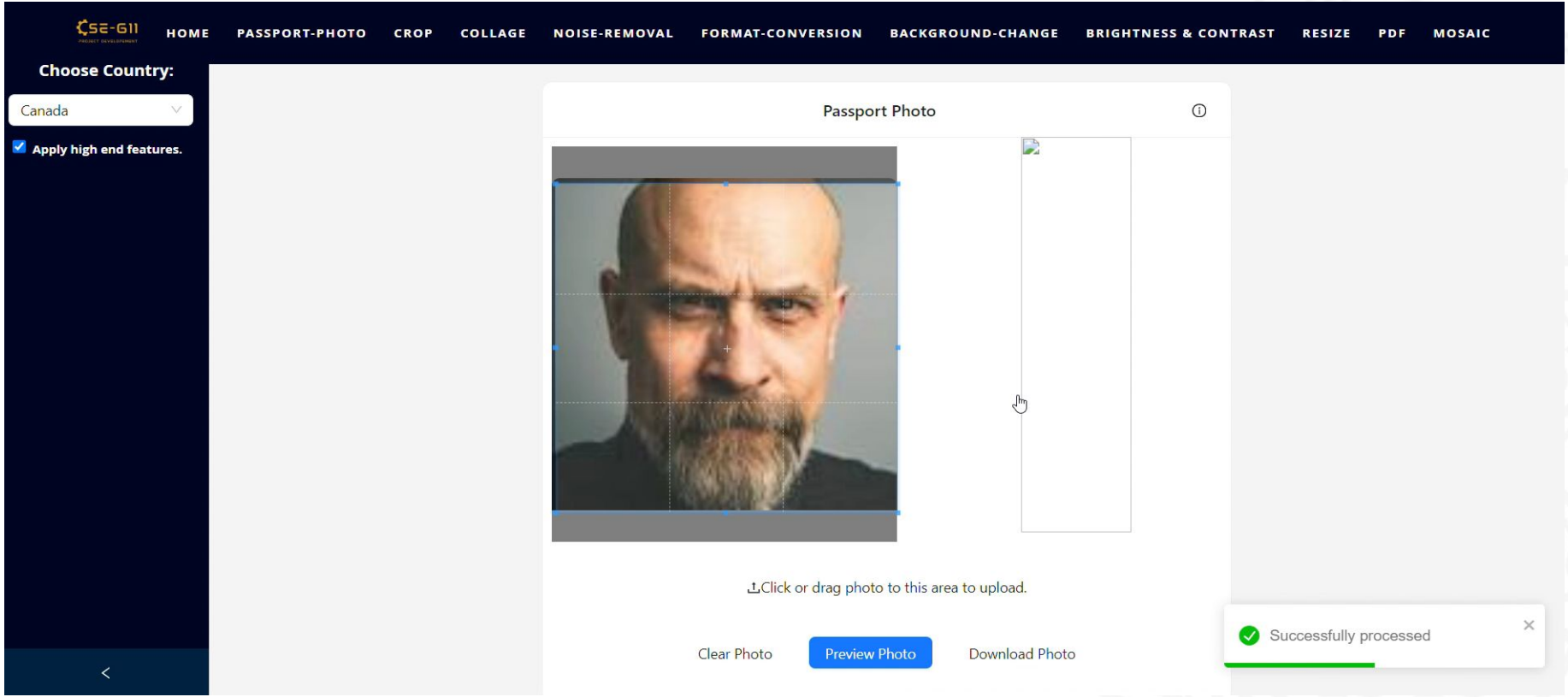
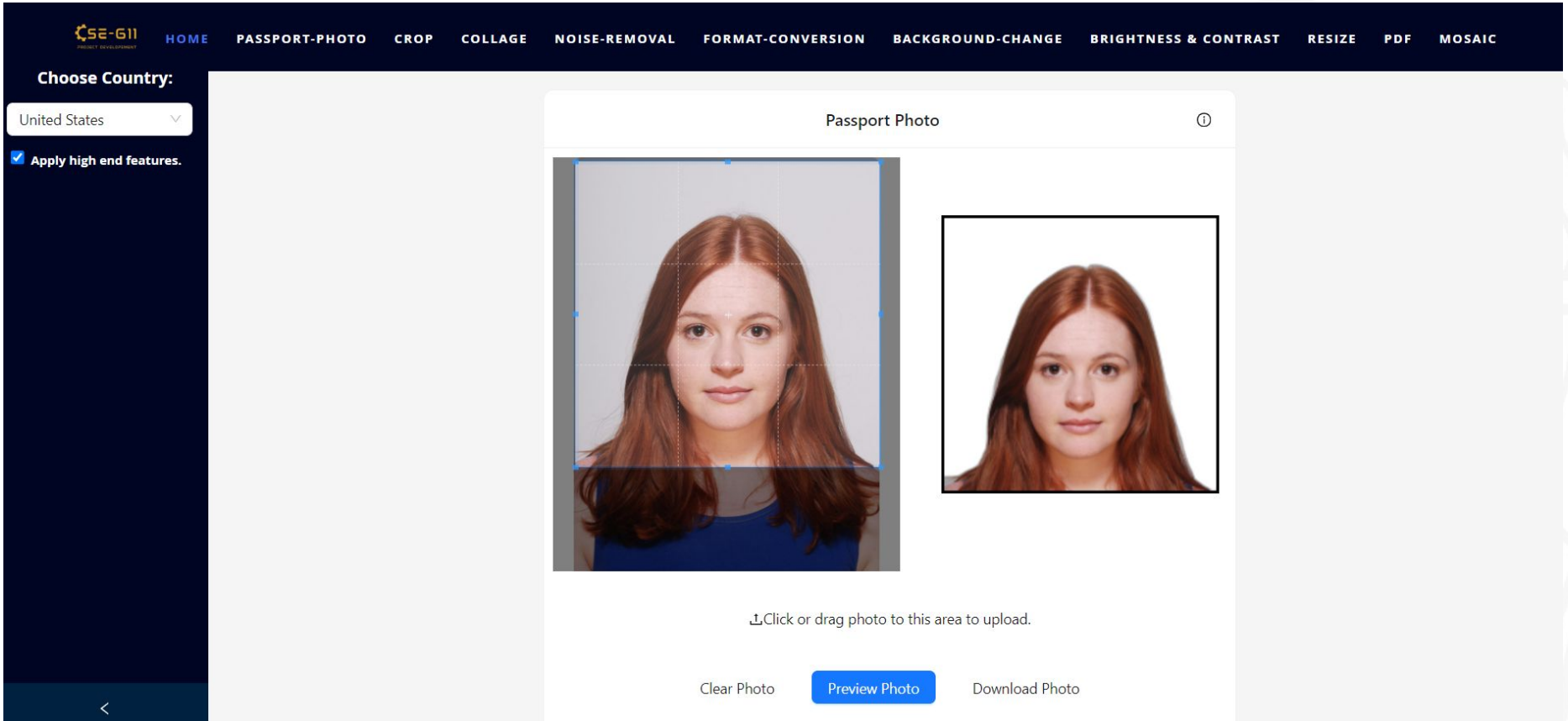
Updated Home Page

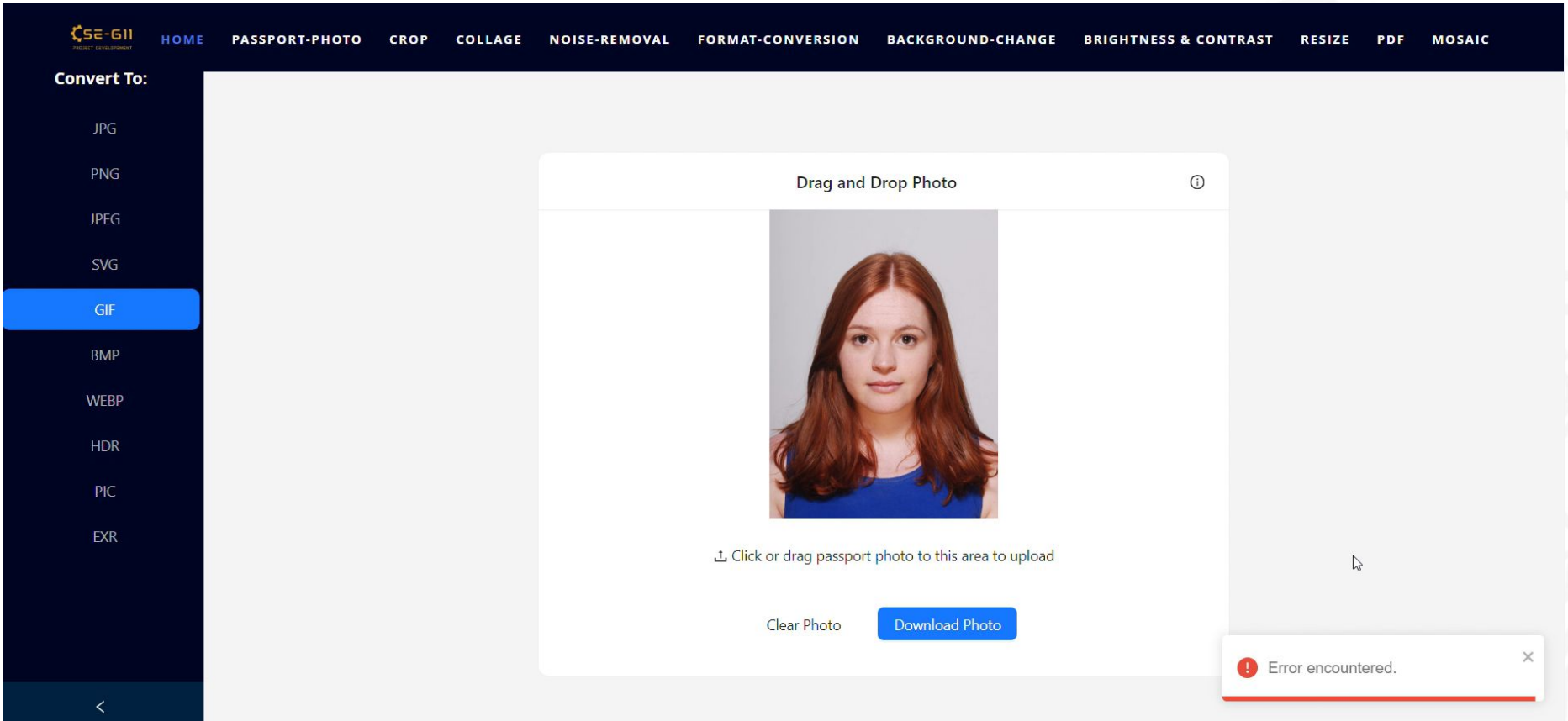
Apply high end features - Before fix



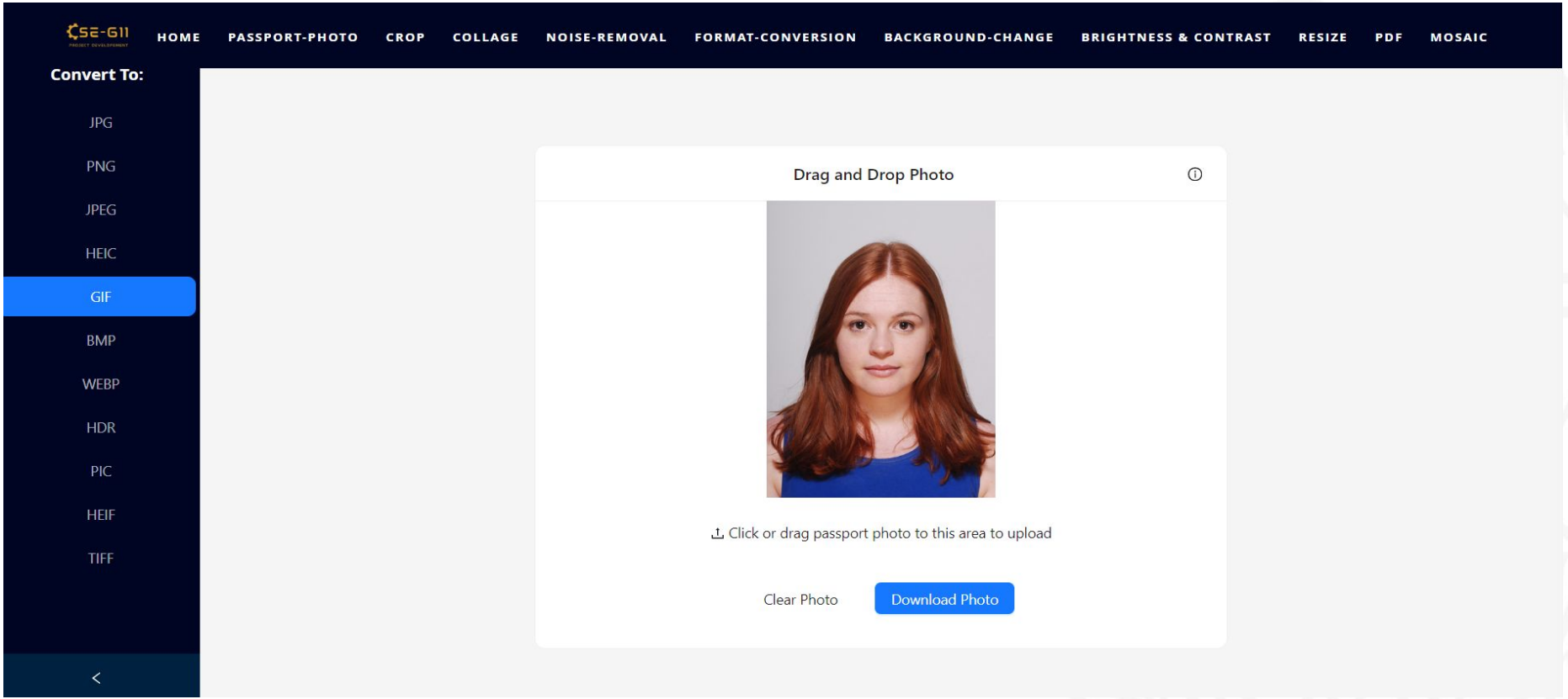
Apply high end features - After fix



Format Conversion- Before fix



Format Conversion - After fix



Mosaic Tool - Before Fix

Photo Collage Tool - Before Fix

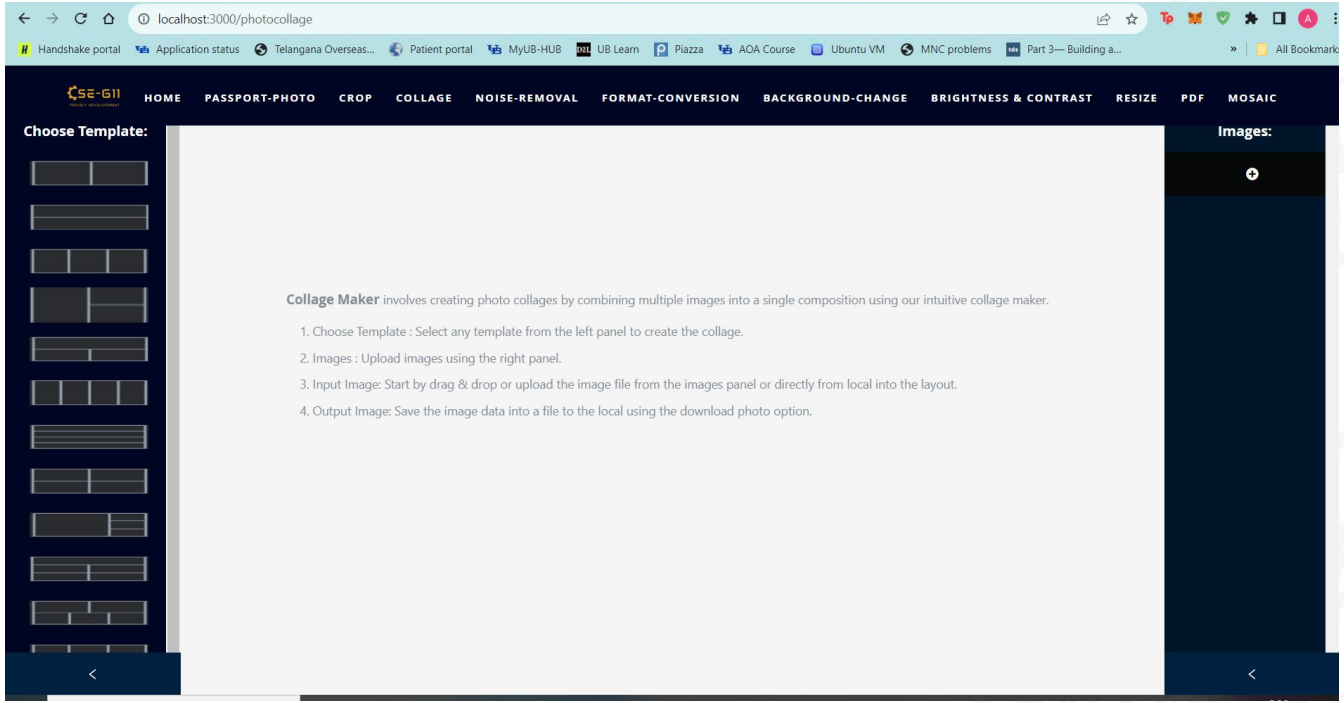


Photo Collage Tool - After Fix

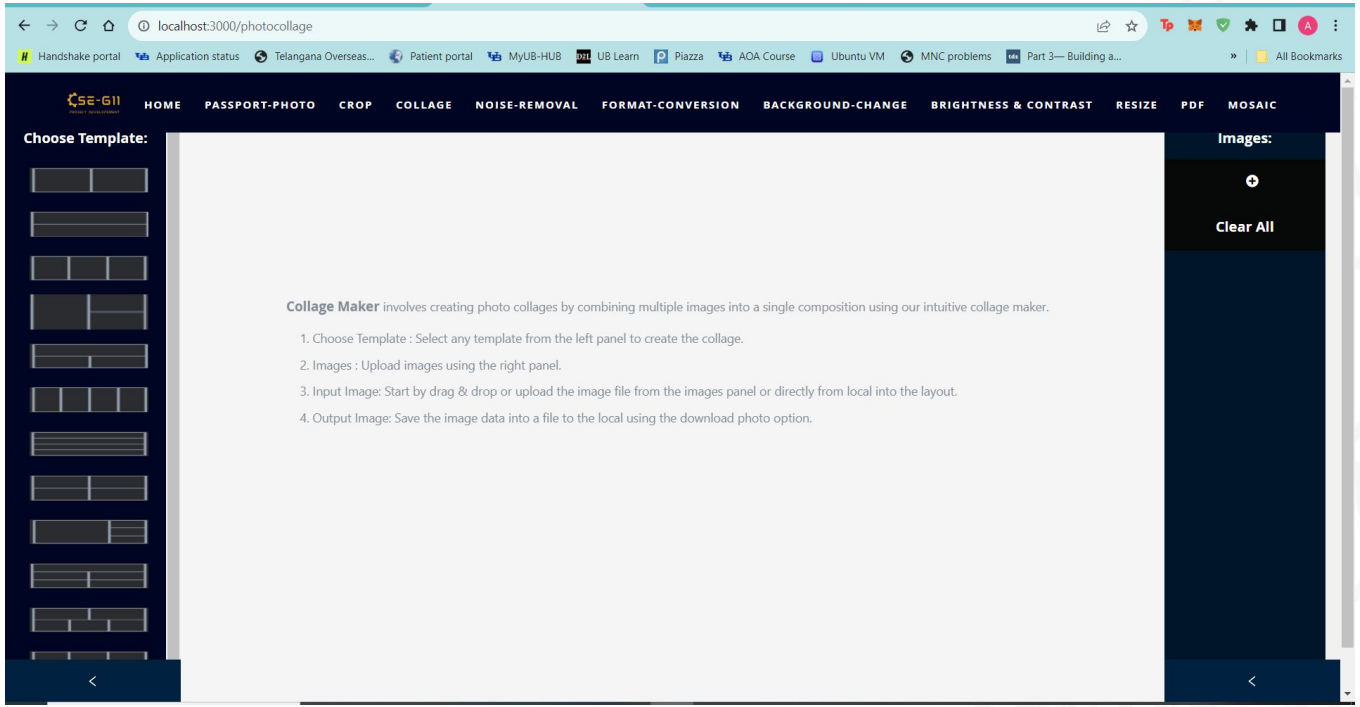


Photo Collage Tool - After Fix (Adding a delete button for individual images)

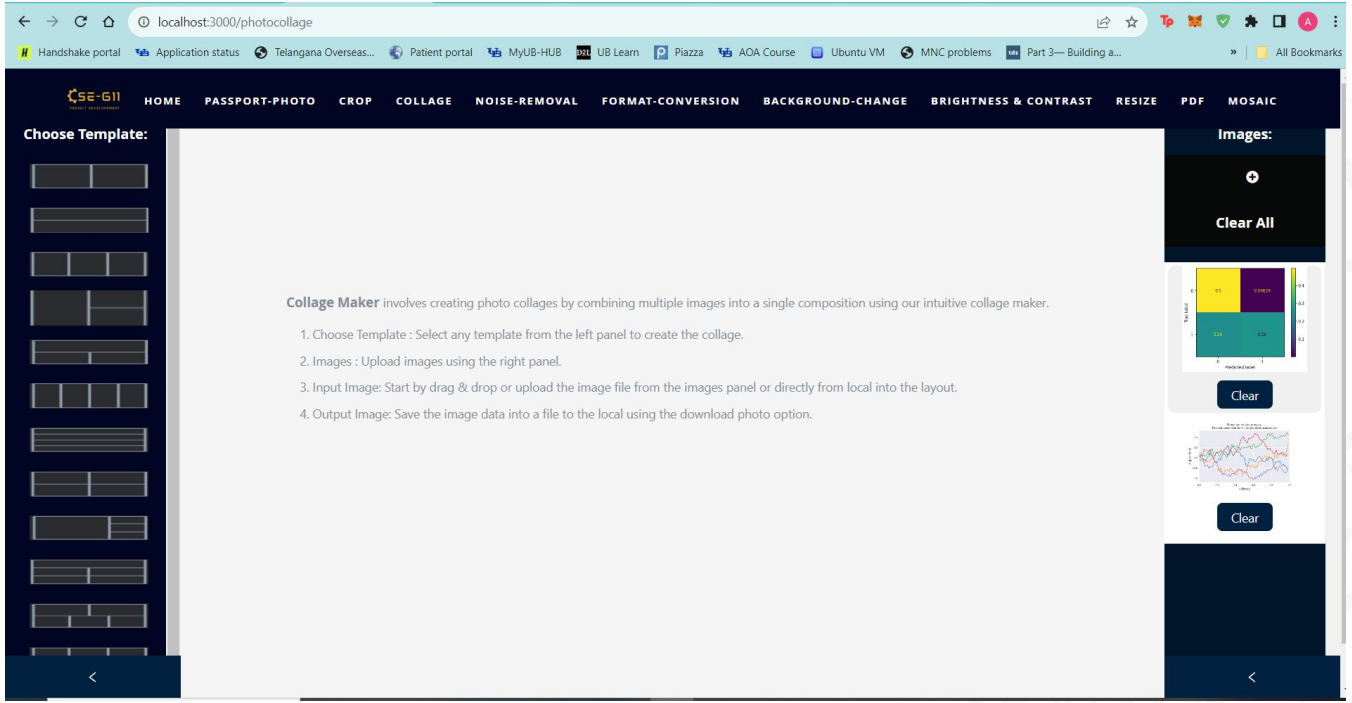
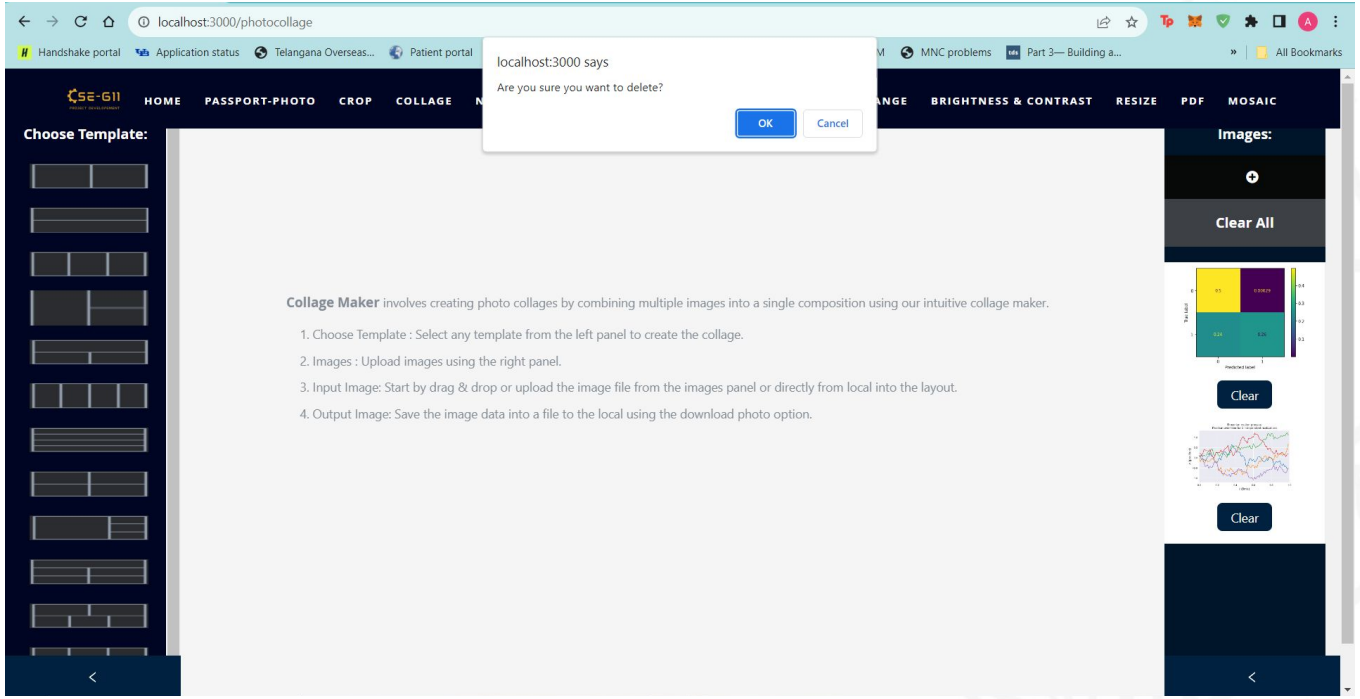


Photo Collage Tool - After Fix (Adding a pop-up asking for confirmation before deleting)



OpenCV to Implement Image Compression

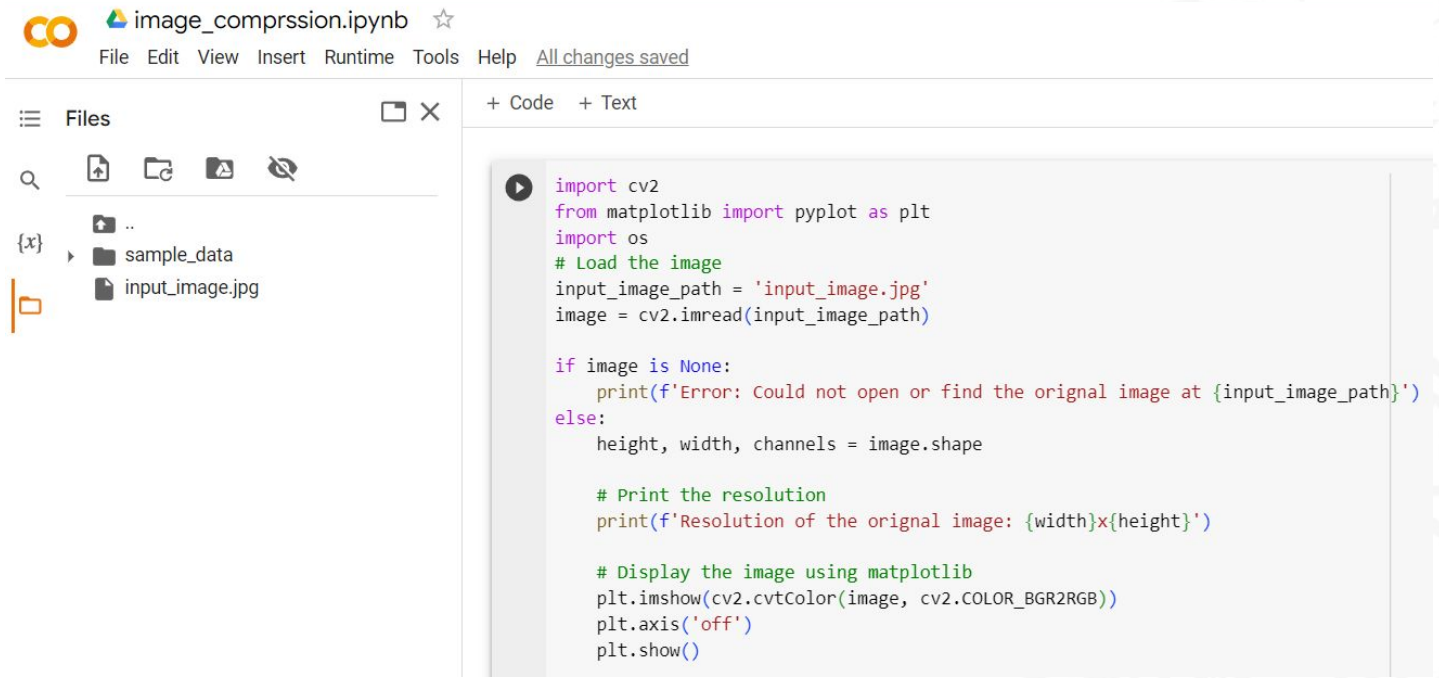
Approach:

- Using cv2 library in OpenCV to implement image compression.

Benefits:

- The cv2 library provides a variety of image compression algorithms, including JPEG, PNG, and WebP.
- The cv2 library can be used to compress images without sacrificing quality.
- The cv2 library is optimized for speed, making it a good choice for real-time applications.

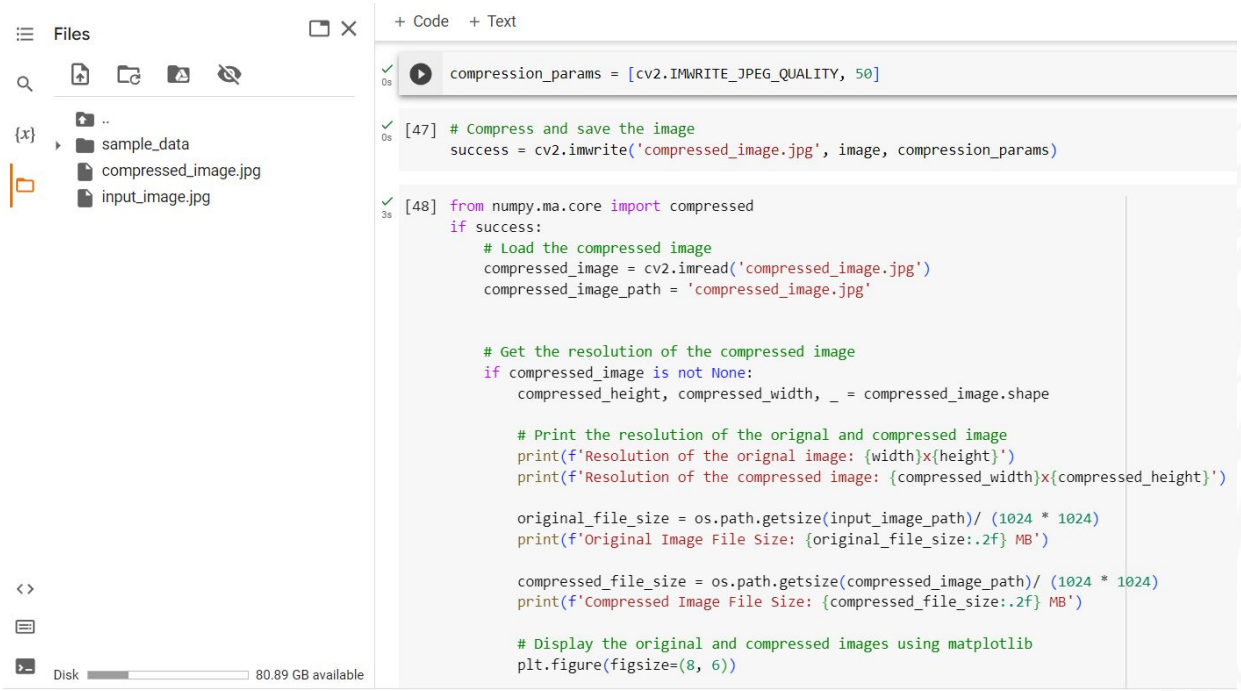
A demo to show effective working of cv2:



A demo to show effective working of cv2:

```
Resolution of the orignal image: 5184x3456
```

A demo to show effective working of cv2:



⇨ **Note: #50 is the quality parameter (0-100), higher is better quality.**

A demo to show effective working of cv2:

```
Resolution of the orignal image: 5184x3456
Resolution of the compressed image: 5184x3456
Original Image File Size: 5.30 MB
Compressed Image File Size: 1.91 MB
```

Original Image

Compressed Image

A demo to show effective working of cv2:

```
Resolution of the orignal image: 5184x3456
Resolution of the compressed image: 5184x3456
Original Image File Size: 5.30 MB
Compressed Image File Size: 0.56 MB
```

⇨ *When the quality parameter is set to 10.*

Original Image

Compressed Image

Thank you