KKR&KSR INSTITUTE OF TECHNOLOGY AND SCIENCES

(Approved by AICTE, Permanently Affiliated to JNTU Kakinada, Accredited by NBA & Accredited by NAAC 'A'Grade, Vinjanampadu (V) Vatticherukuru (M), Guntur (DT) – 522017)

DEPARTMENT OF INFORMATION TECHNOLOGY

REVIEW 2

IMAGE GENERATION WITH STYLE TRANSFER

PROJECT GUIDE:
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PROJECT TEAM:
20JR1A1242
20JR1A1259
20JR1A1261
20JR1A1266

MODULE DESIGN SPECIFICATIONS:-

• The modules which are used to develop the Image Generation With Style Transfer
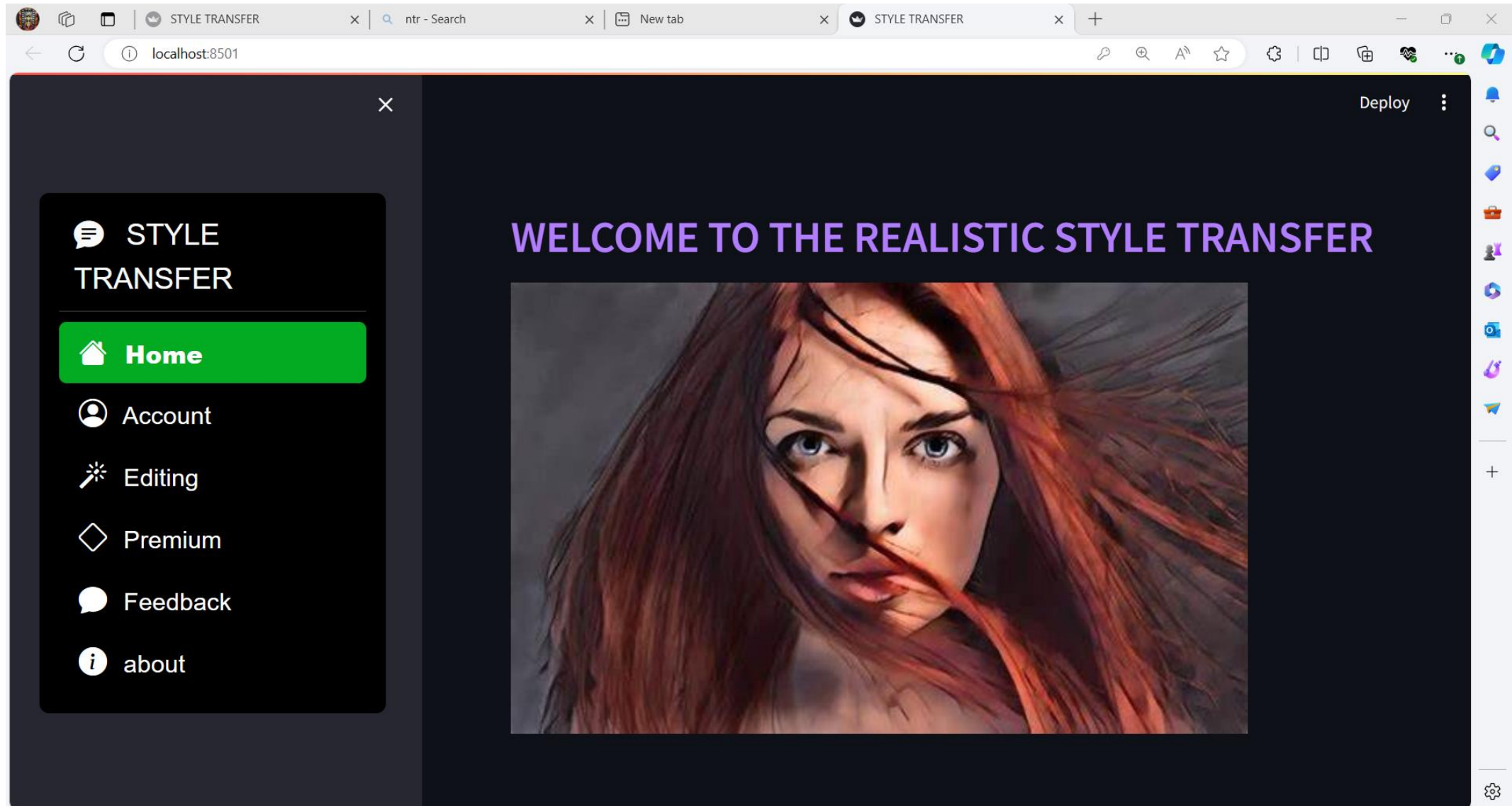
They are

1.User interface module

2.Content Image processing module

3.Style Image processing module

4.Output generation module
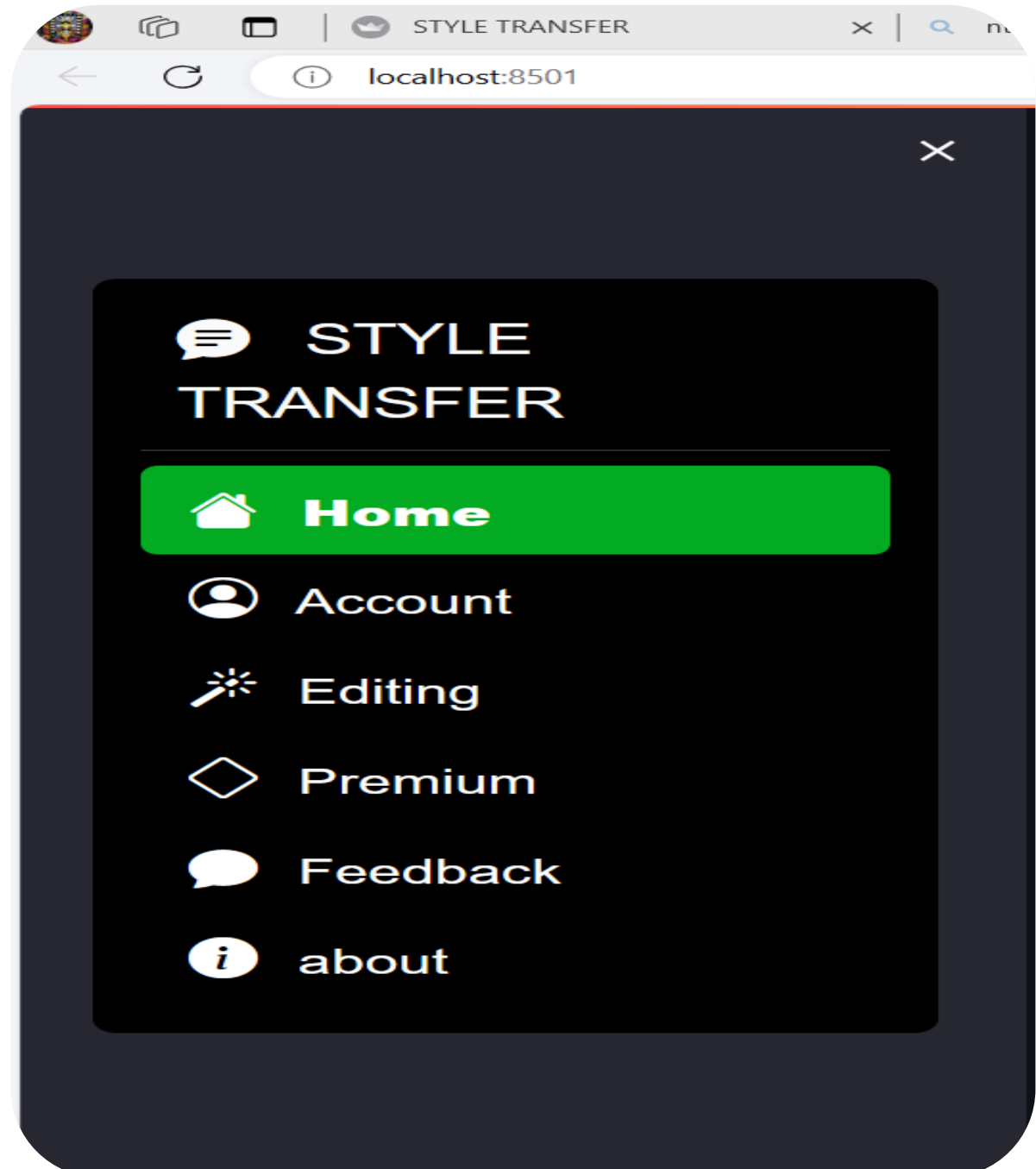
User interface module

- The User Interface module is responsible for the interaction between the user and web interface

- <u>Components used</u>:-

1. Streamlit(Streamlit is used to create the web application and user interface)

2. Streamlit_Option_menu(This module provides different options for the user each option defines as as one web page.)
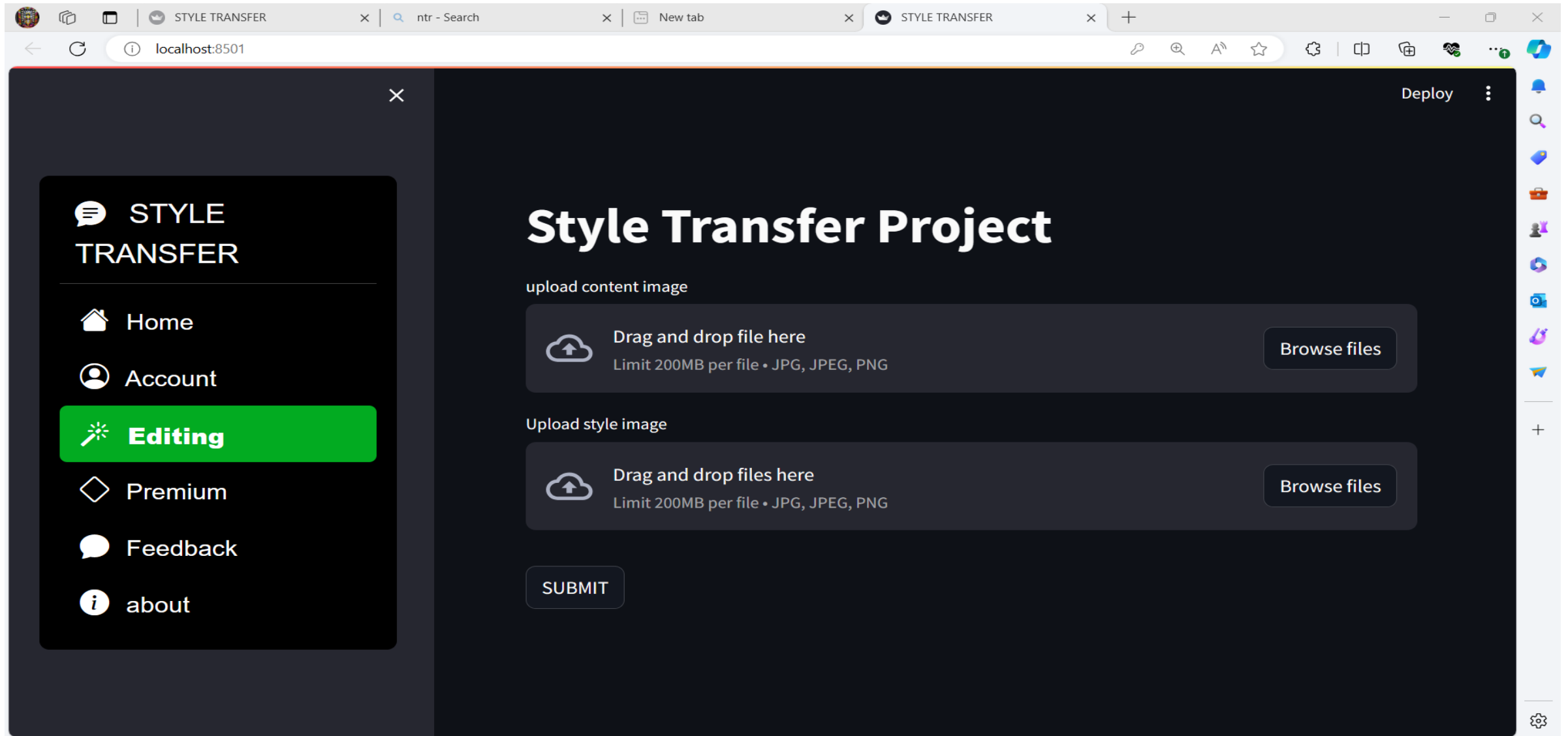
User interface module:-

Streamlit_option_menu

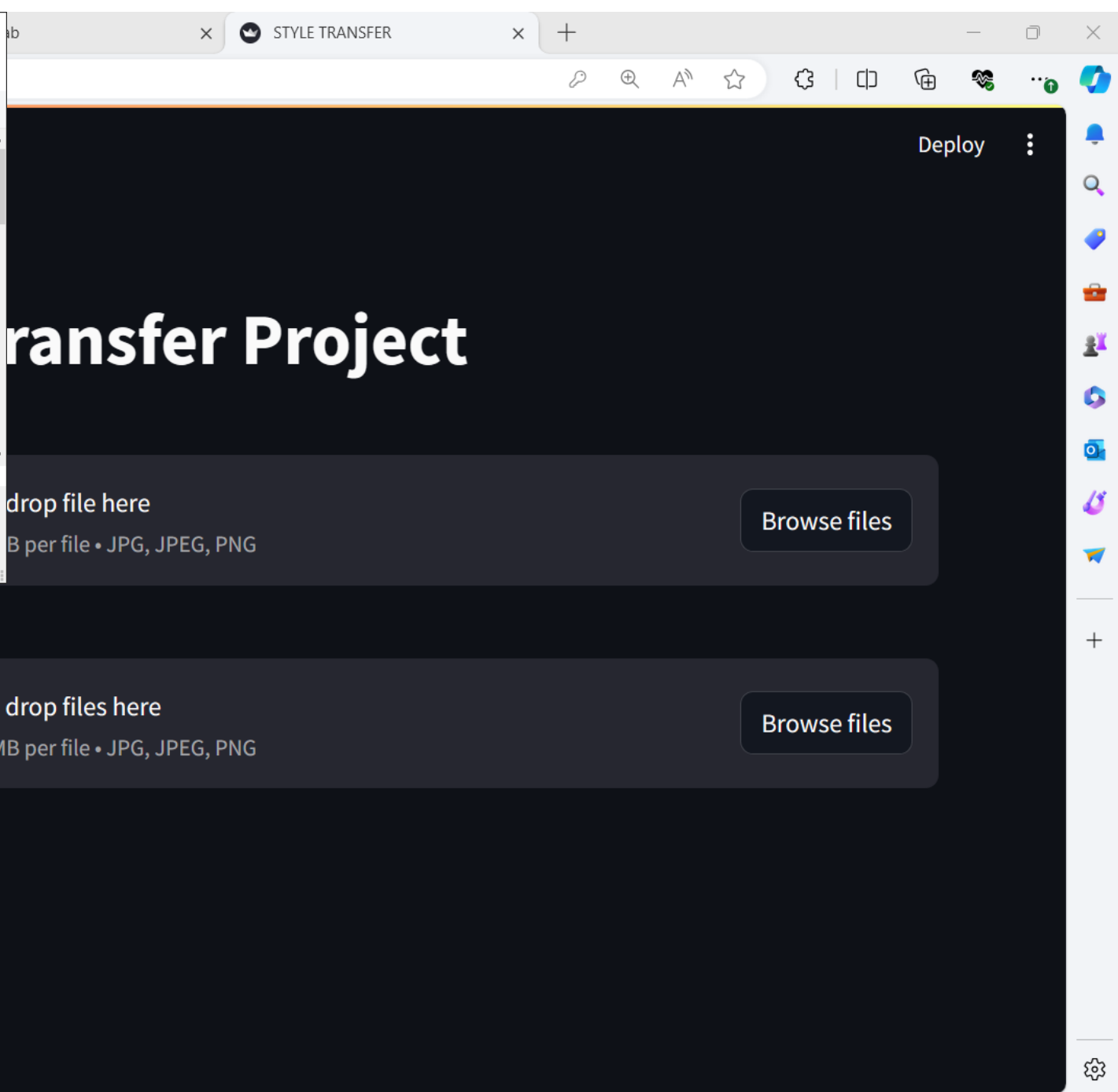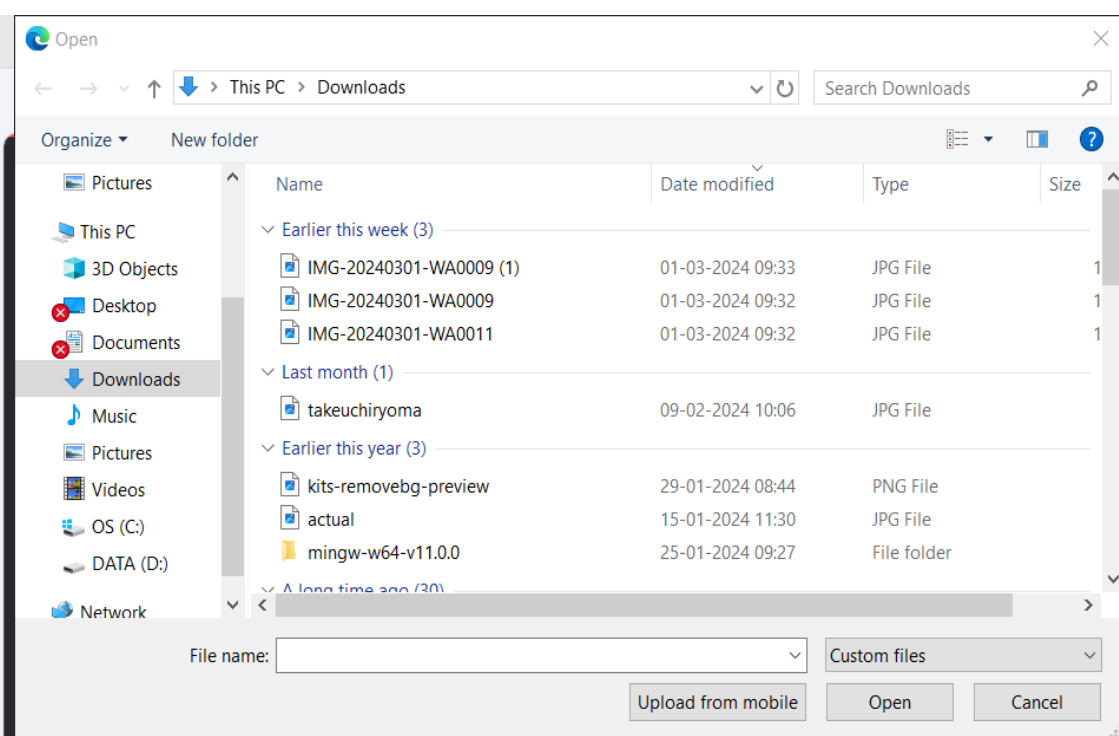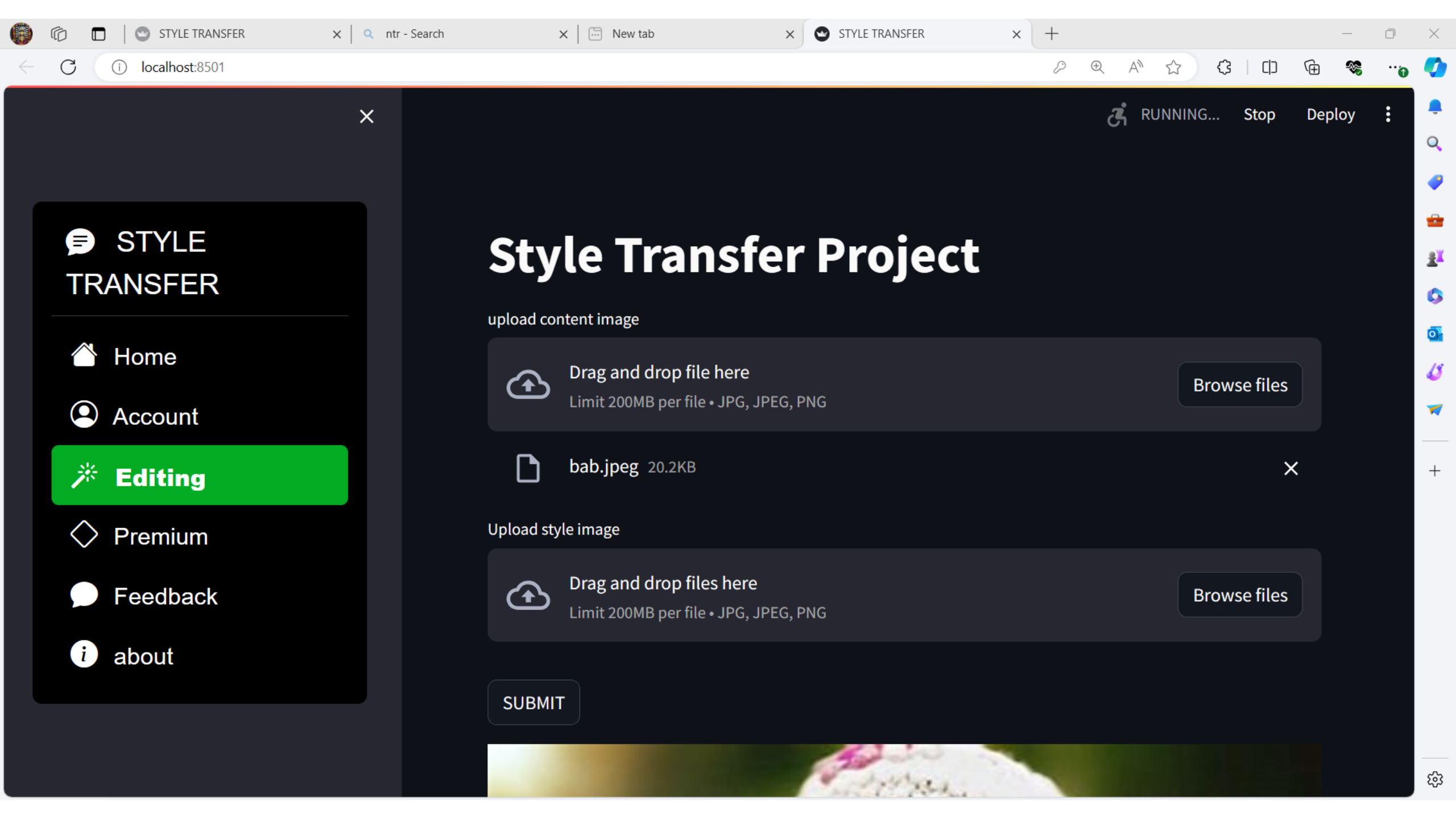- Each option defines a individual web page

Content image processing module

- The content image Processing module handles the content image where the user can upload the image from the local browser.

- Components used:-

1. File_uploader

2. content_temp_location

3. Load_image

4. Image

File_uploader

This PC > Downloads

Search Downloads

Organize ▼   New folder

Name	Date modified	Type	Size
Earlier this week (3)			
IMG-20240301-WA0009 (1)	01-03-2024 09:33	JPG File	1
IMG-20240301-WA0009	01-03-2024 09:32	JPG File	1
IMG-20240301-WA0011	01-03-2024 09:32	JPG File	1
Last month (1)			
takeuchiryoma	09-02-2024 10:06	JPG File	
Earlier this year (3)			
kits-removebg-preview	29-01-2024 08:44	PNG File	
actual	15-01-2024 11:30	JPG File	
mingw-w64-v11.0.0	25-01-2024 09:27	File folder	
A long time ago (30)			

Pictures
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
OS (C:)
DATA (D:)
Network

File name: _____   Custom files

Upload from mobile   Open   Cancel

Deploy

ransfer Project

drop file here

B per file • JPG, JPEG, PNG

Browse files

Upload style image

Drag and drop files here

Limit 200MB per file • JPG, JPEG, PNG

Browse files

SUBMIT

Editing

Premium

Feedback

about

STYLE TRANSFER

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Style Transfer Project

upload content image

Drag and drop file here
Limit 200MB per file • JPG, JPEG, PNG

Browse files

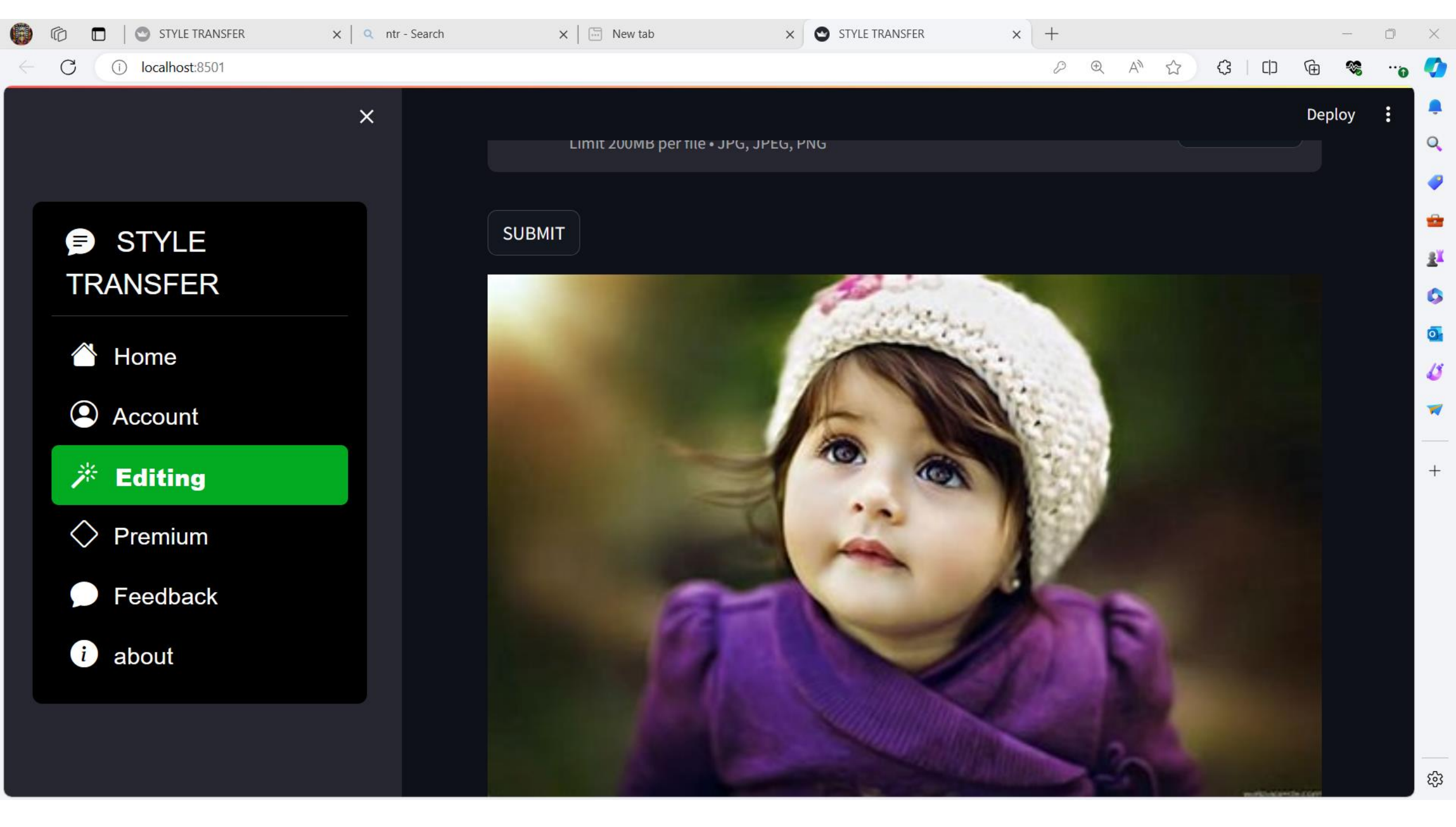bab.jpeg 20.2KB

Upload style image

Drag and drop files here
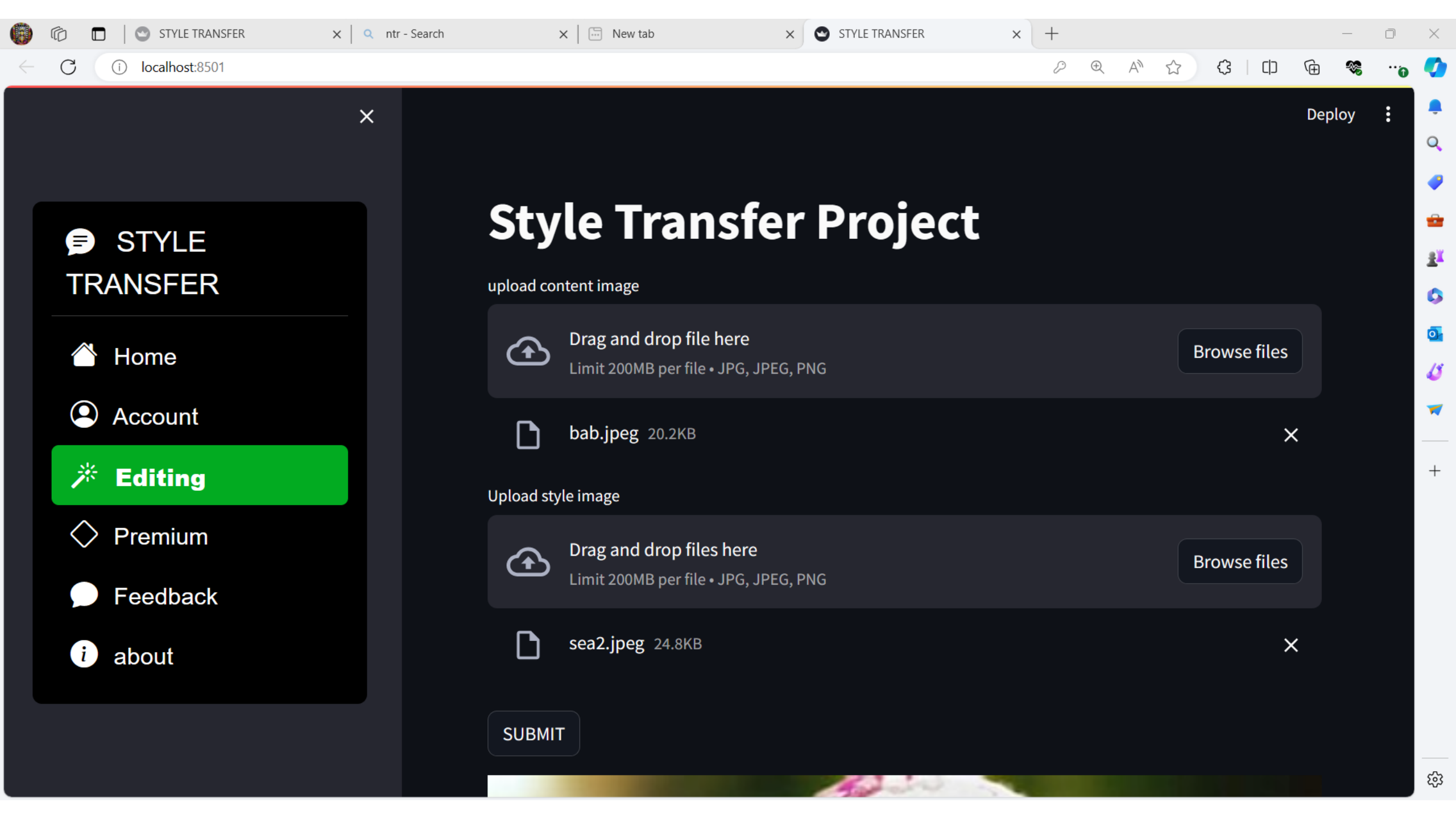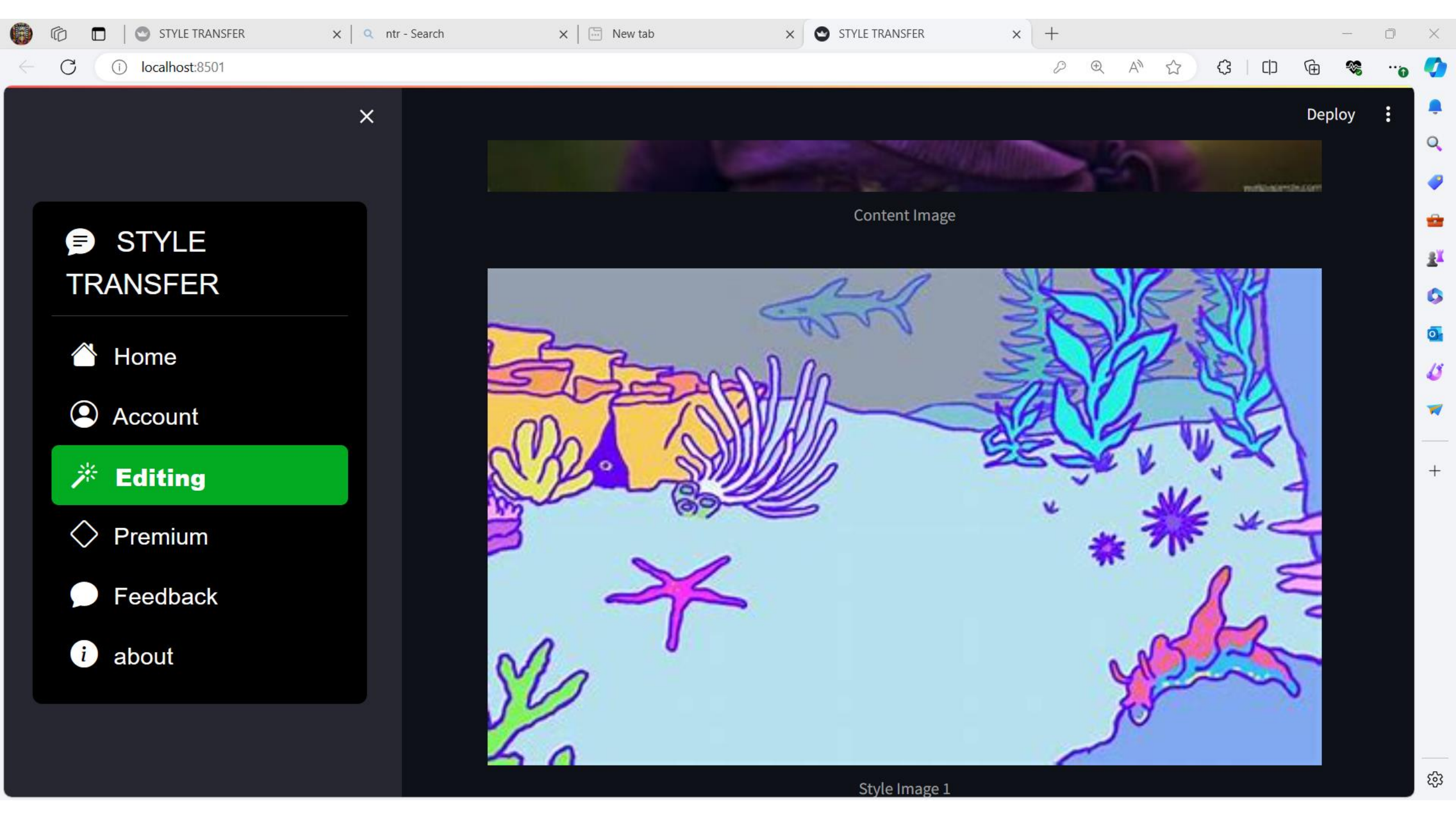Limit 200MB per file • JPG, JPEG, PNG

Browse files

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Style image processing module

- The Style image Processing module handles the style image where the user can upload the image from the local browser .

- Components used:-

1. File_uploader

2. content_temp_location

3. Load_image

4. Image

Style Transfer Project

upload content image

Drag and drop file here
Limit 200MB per file • JPG, JPEG, PNG

Browse files

📄 **bab.jpeg** 20.2KB ✕

Upload style image

Drag and drop files here
Limit 200MB per file • JPG, JPEG, PNG

Browse files

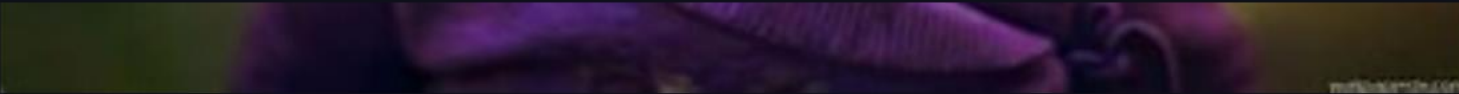📄 **sea2.jpeg** 24.8KB ✕

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Content Image

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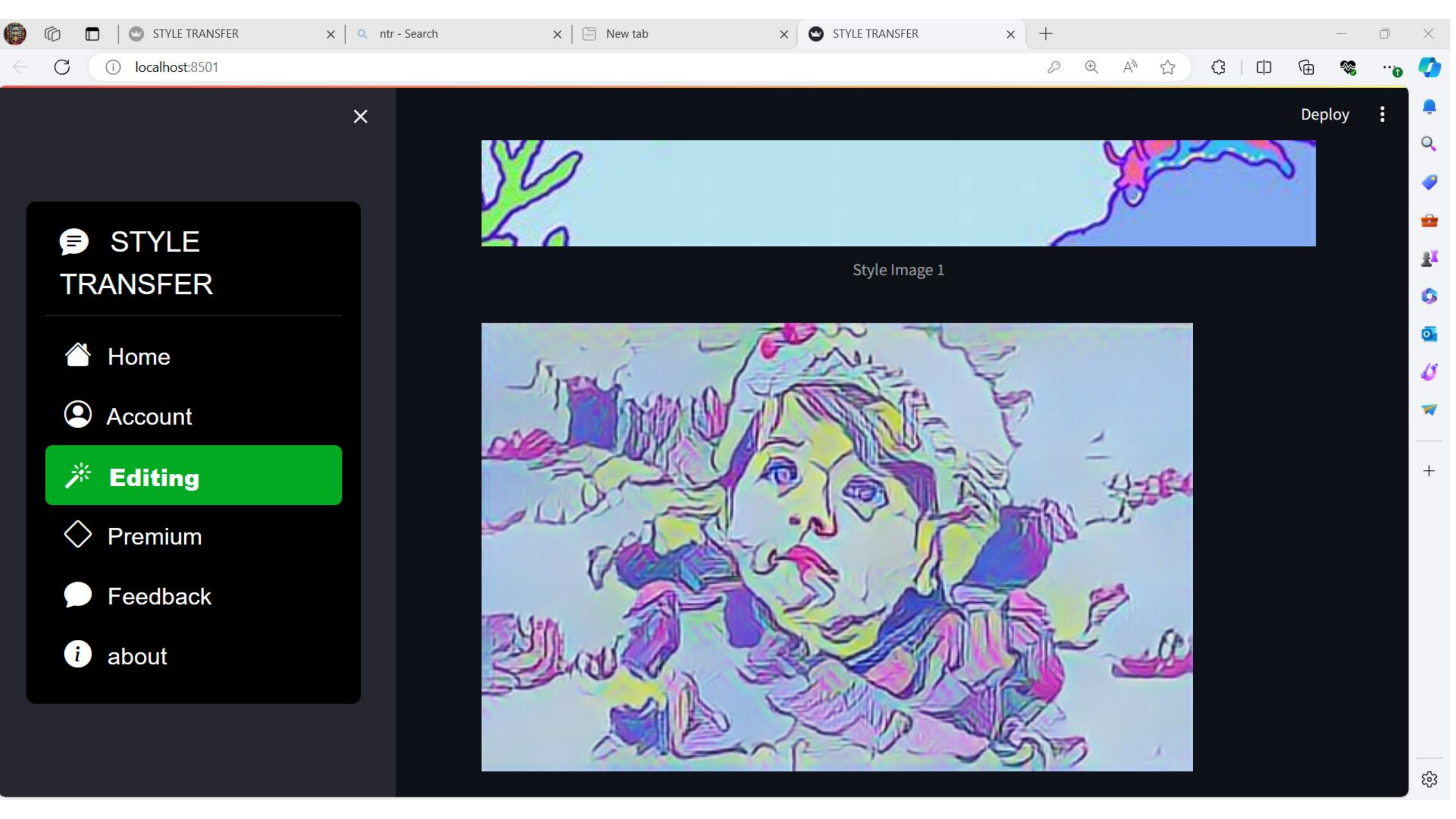- Account
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Style Image 1

Output processing module:

- The output processing module generates stylished image based on user uploaded style image.

- Components used:-

- 1. Hub(process the model that converts the content into stylished image based upon the training data)

- 2. Validators(validators is a simple function that takes the value to validate and possibly some additional key-value arguments)
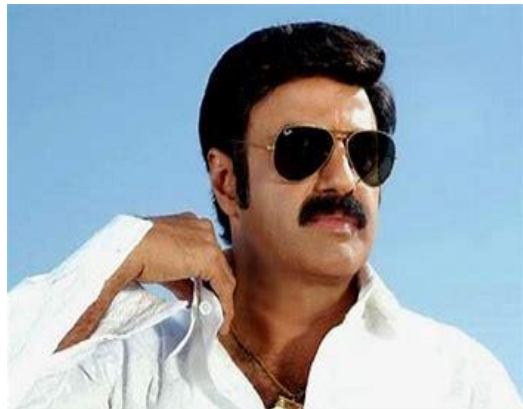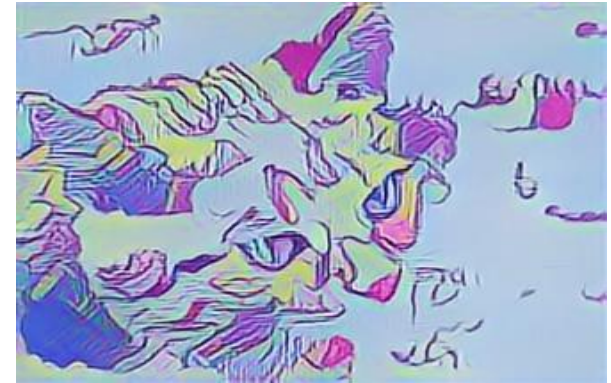
Style Image 1

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Some Stylished images

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PSEUDO CODE

- **Load pre-trained style transfer model**
- **Load content image**
- **Load style image**
- **Optimize the generated image**
- **Display the final stylized image**

THANK YOU