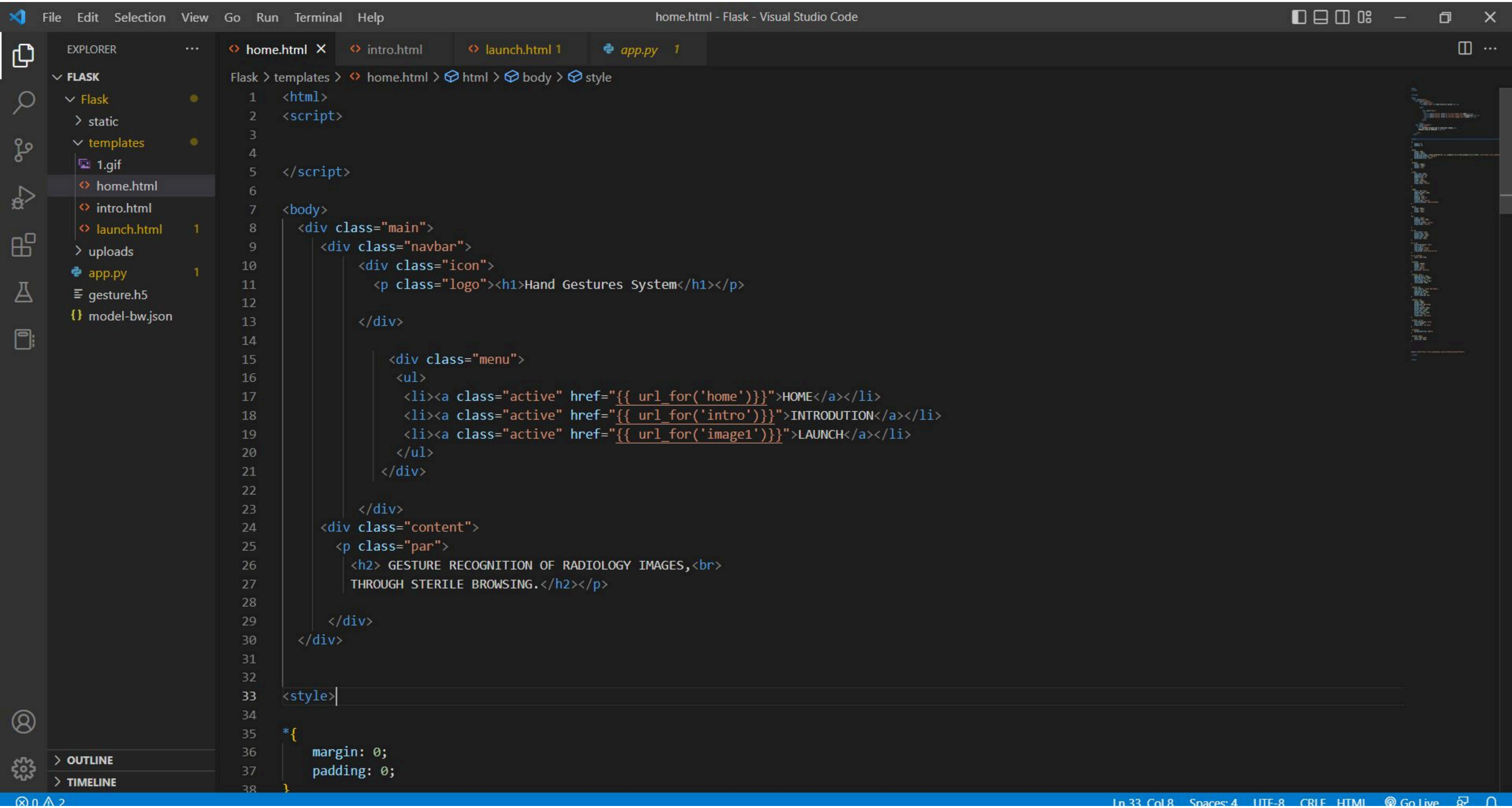
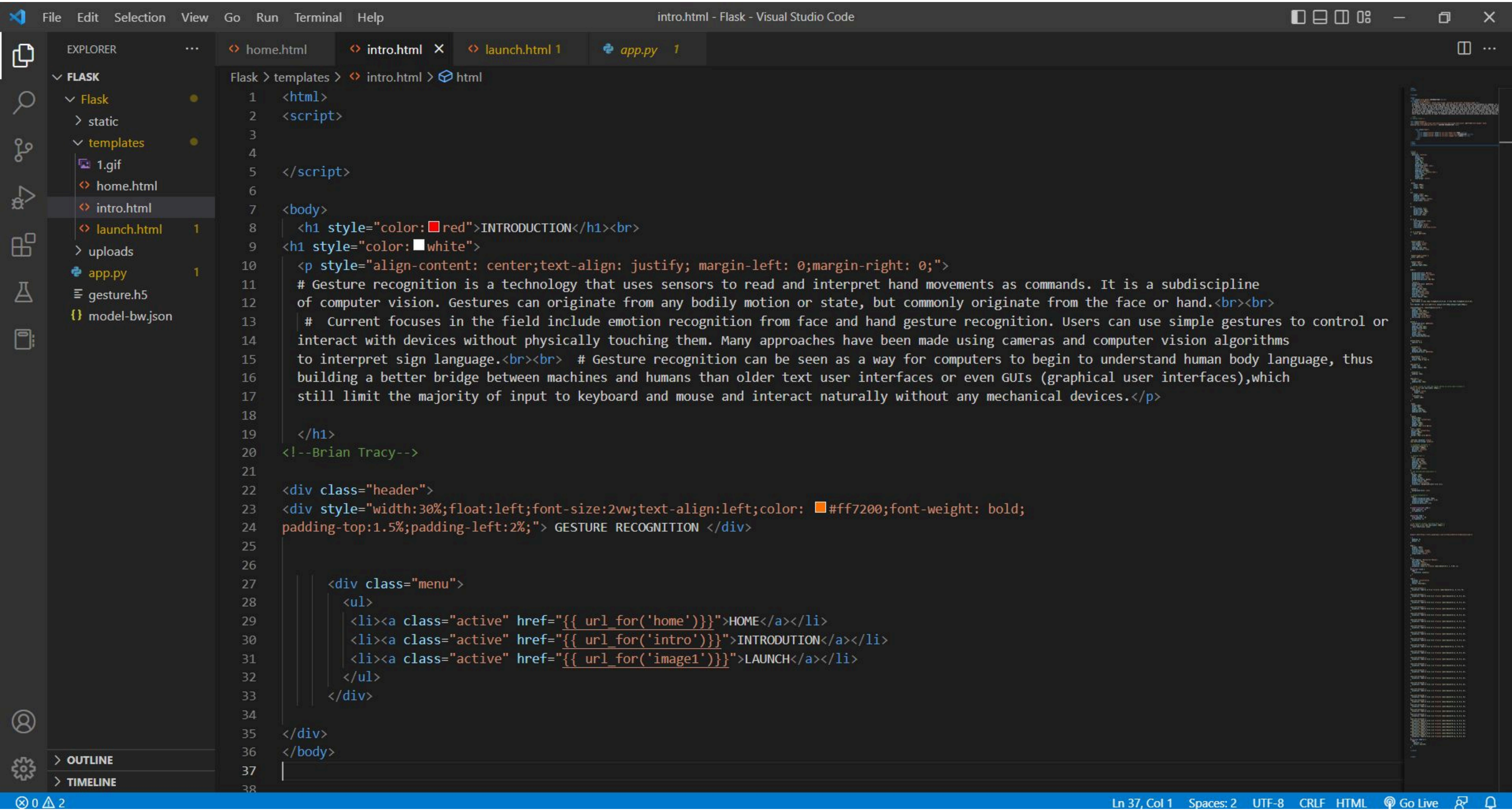
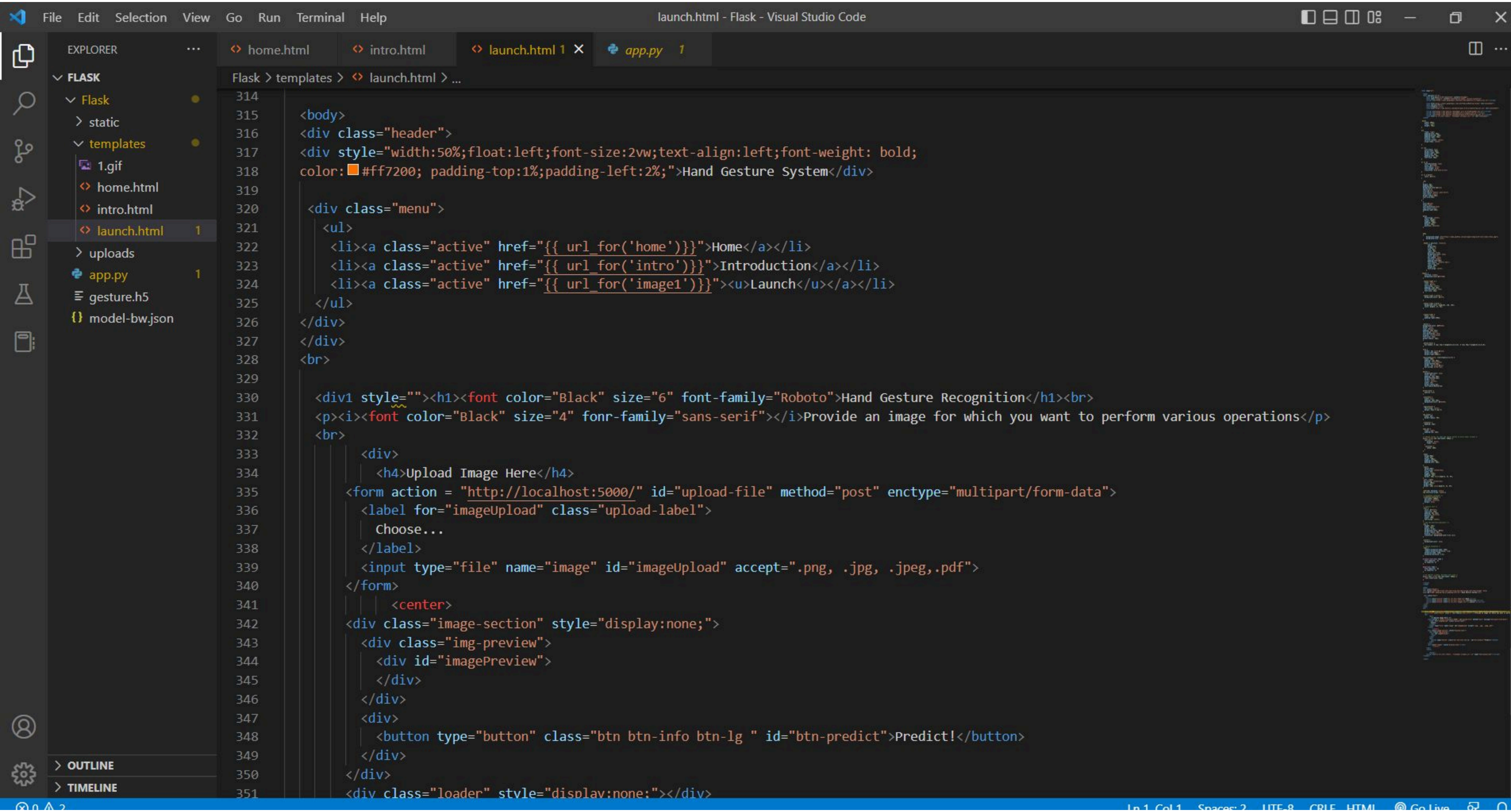

File Edit Selection View Go Run Terminal Help
home.html - Flask - Visual Studio Code
home.html
intro.html
launch.html 1
app.py 1
EXPLORER
FLASK
Flask
static
templates
1.gif
home.html
intro.html
launch.html 1
uploads
app.py 1
gesture.h5
model-bw.json
OUTLINE
TIMELINE
Flask > templates > home.html > html > body > style
0 ⚠ 2
Ln 33, Col 8 Spaces: 4 UTF-8 CRLF HTML Go Live

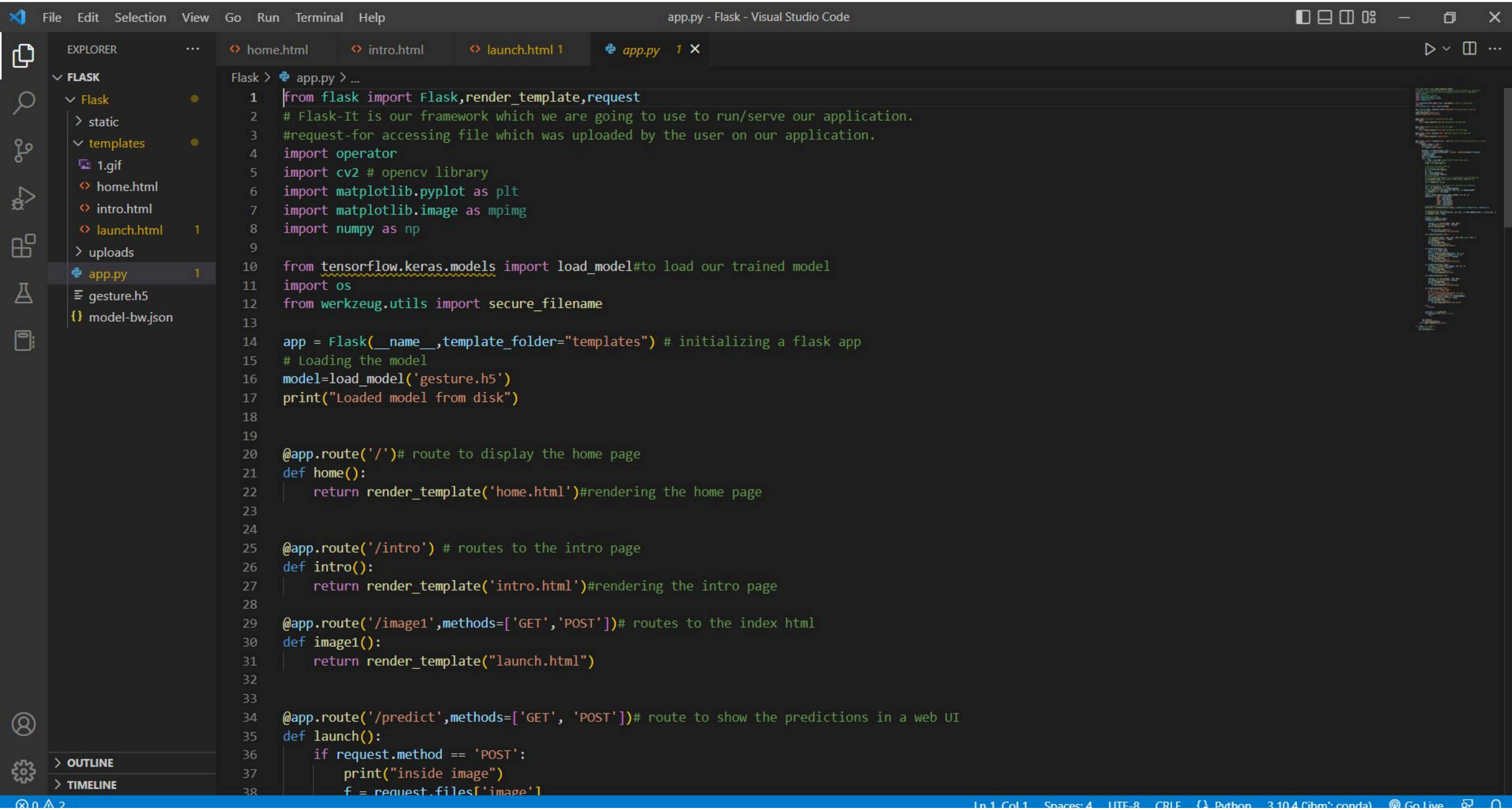
```
<html>
<script>


</script>

<body>
  <div class="main">
     <div class="navbar">
          <div class="icon">
            <p class="logo"><h1>Hand Gestures System</h1></p>

          </div>

              <div class="menu">
               <ul>
                <li><a class="active" href="{{ url_for('home')}}">HOME</a></li>
                <li><a class="active" href="{{ url_for('intro')}}">INTRODUTION</a></li>
                <li><a class="active" href="{{ url_for('image1')}}">LAUNCH</a></li>
               </ul>
             </div>

          </div>
     <div class="content">
       <p class="par">
         <h2> GESTURE RECOGNITION OF RADIOLOGY IMAGES,<br>
         THROUGH STERILE BROWSING.</h2></p>

      </div>
  </div>


<style>

*{
    margin: 0;
    padding: 0;
}
```



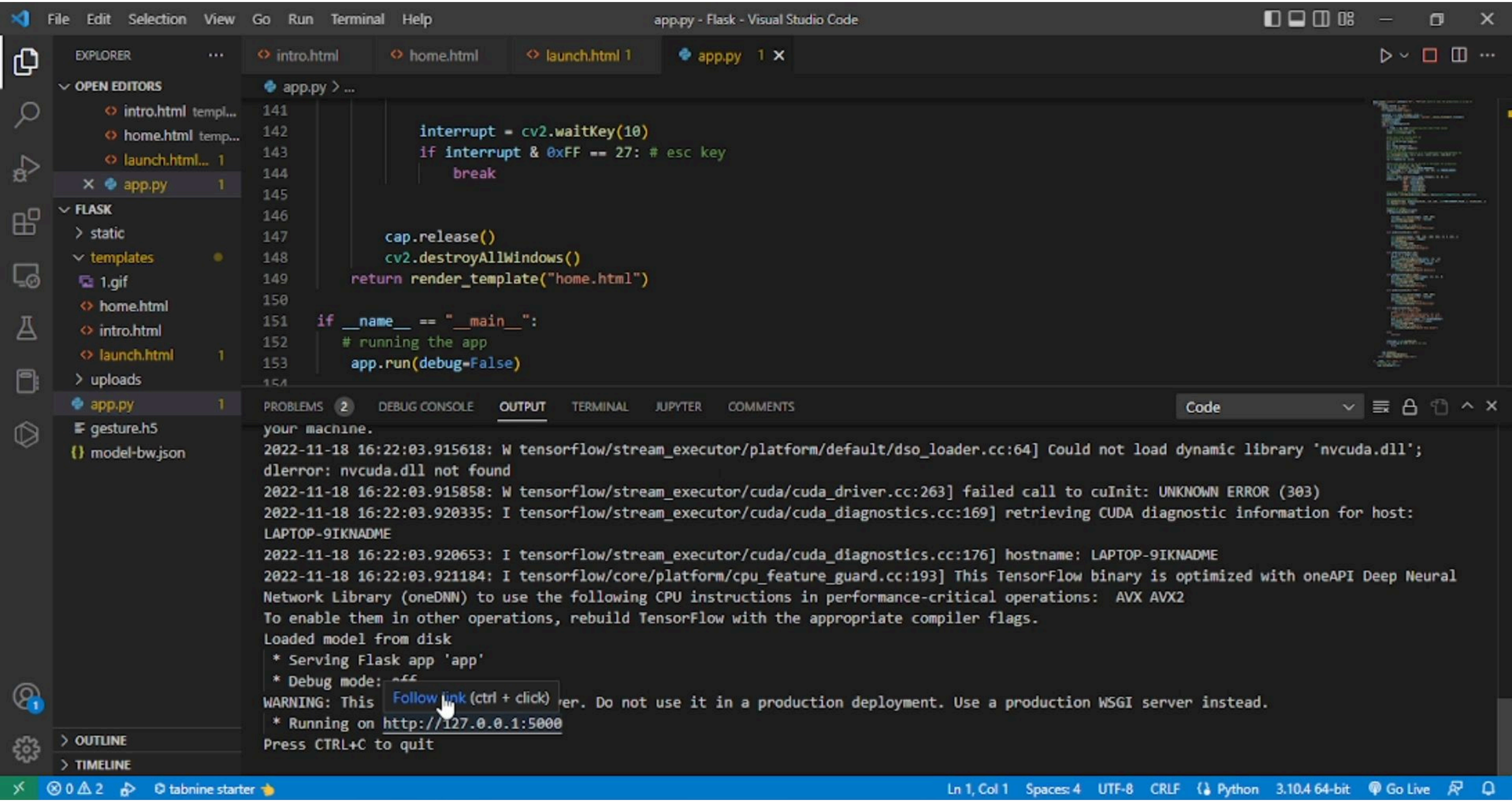
```
<html>
<script>



</script>

<body>
  <h1 style="color:🟥red">INTRODUCTION</h1><br>
<h1 style="color:⬜white">
  <p style="align-content: center;text-align: justify; margin-left: 0;margin-right: 0;">
  # Gesture recognition is a technology that uses sensors to read and interpret hand movements as commands. It is a subdiscipline
  of computer vision. Gestures can originate from any bodily motion or state, but commonly originate from the face or hand.<br><br>
   #  Current focuses in the field include emotion recognition from face and hand gesture recognition. Users can use simple gestures to control or
  interact with devices without physically touching them. Many approaches have been made using cameras and computer vision algorithms
  to interpret sign language.<br><br>  # Gesture recognition can be seen as a way for computers to begin to understand human body language, thus
  building a better bridge between machines and humans than older text user interfaces or even GUIs (graphical user interfaces),which
  still limit the majority of input to keyboard and mouse and interact naturally without any mechanical devices.</p>

  </h1>
<!--Brian Tracy-->

<div class="header">
<div style="width:30%;float:left;font-size:2vw;text-align:left;color: 🟧#ff7200;font-weight: bold;
padding-top:1.5%;padding-left:2%;"> GESTURE RECOGNITION </div>


      <div class="menu">
        <ul>
         <li><a class="active" href="{{ url_for('home')}}">HOME</a></li>
         <li><a class="active" href="{{ url_for('intro')}}">INTRODUTION</a></li>
         <li><a class="active" href="{{ url_for('image1')}}">LAUNCH</a></li>
        </ul>
      </div>

</div>
</body>

```



```
<body>
<div class="header">
<div style="width:50%;float:left;font-size:2vw;text-align:left;font-weight: bold;
color:🟧#ff7200; padding-top:1%;padding-left:2%;">Hand Gesture System</div>

 <div class="menu">
   <ul>
    <li><a class="active" href="{{ url_for('home')}}">Home</a></li>
    <li><a class="active" href="{{ url_for('intro')}}">Introduction</a></li>
    <li><a class="active" href="{{ url_for('image1')}}"><u>Launch</u></a></li>
  </ul>
</div>
</div>
<br>

  <div1 style=""><h1><font color="Black" size="6" font-family="Roboto">Hand Gesture Recognition</h1><br>
  <p><i><font color="Black" size="4" fonr-family="sans-serif"></i>Provide an image for which you want to perform various operations</p>
  <br>
        <div>
          <h4>Upload Image Here</h4>
      <form action = "http://localhost:5000/" id="upload-file" method="post" enctype="multipart/form-data">
        <label for="imageUpload" class="upload-label">
          Choose...
        </label>
        <input type="file" name="image" id="imageUpload" accept=".png, .jpg, .jpeg,.pdf">
      </form>
            <center>
      <div class="image-section" style="display:none;">
        <div class="img-preview">
          <div id="imagePreview">
          </div>
        </div>
        <div>
          <button type="button" class="btn btn-info btn-lg " id="btn-predict">Predict!</button>
        </div>
      </div>
      <div class="loader" style="display:none;"></div>
```

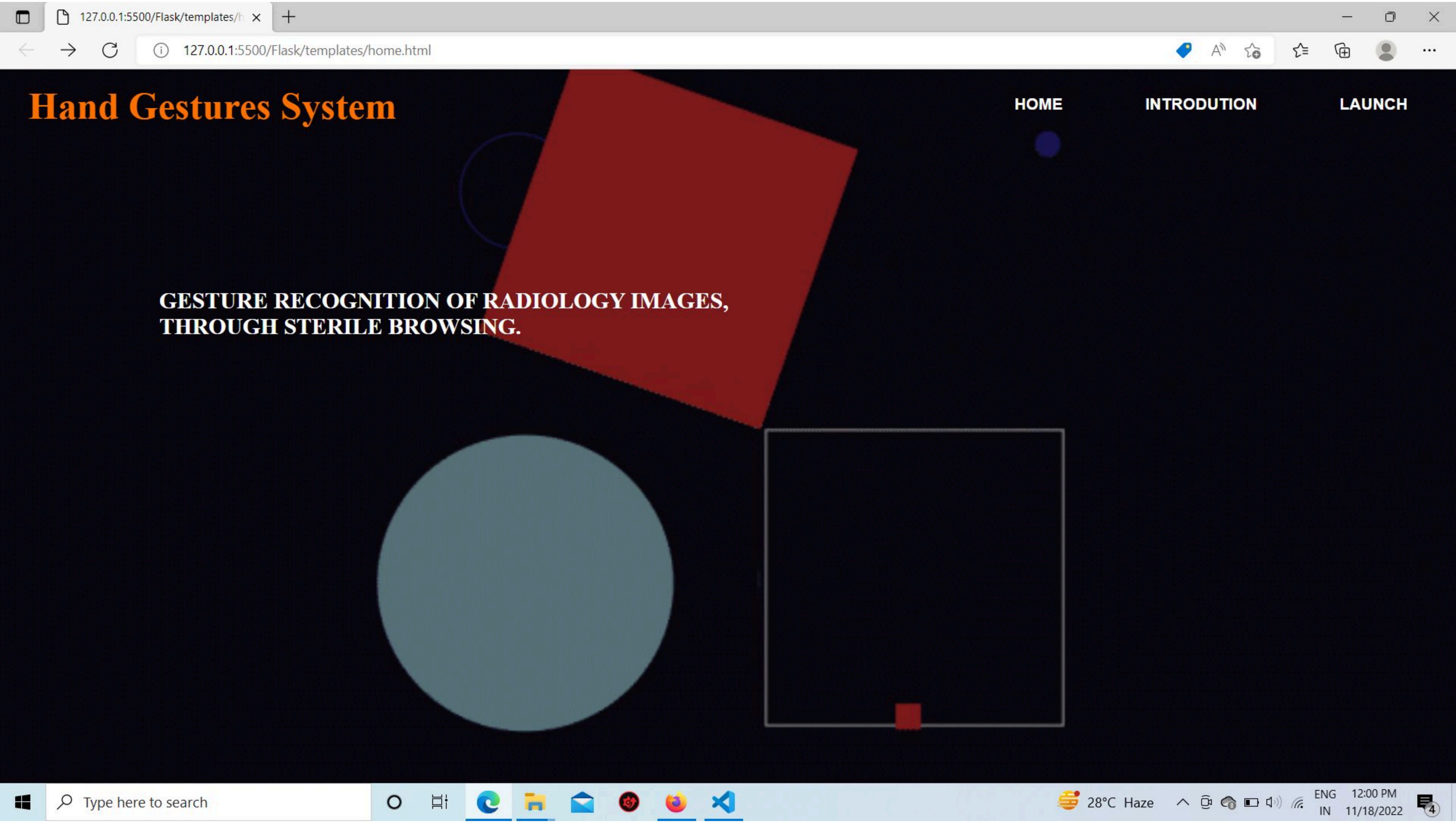


```
from flask import Flask,render_template,request
# Flask-It is our framework which we are going to use to run/serve our application.
#request-for accessing file which was uploaded by the user on our application.
import operator
import cv2 # opencv library
import matplotlib.pyplot as plt
import matplotlib.image as mpimg
import numpy as np

from tensorflow.keras.models import load_model#to load our trained model
import os
from werkzeug.utils import secure_filename

app = Flask(__name__,template_folder="templates") # initializing a flask app
# Loading the model
model=load_model('gesture.h5')
print("Loaded model from disk")


@app.route('/')# route to display the home page
def home():
    return render_template('home.html')#rendering the home page


@app.route('/intro') # routes to the intro page
def intro():
    return render_template('intro.html')#rendering the intro page

@app.route('/image1',methods=['GET','POST'])# routes to the index html
def image1():
    return render_template("launch.html")


@app.route('/predict',methods=['GET', 'POST'])# route to show the predictions in a web UI
def launch():
    if request.method == 'POST':
        print("inside image")
        f = request.files['image']
```



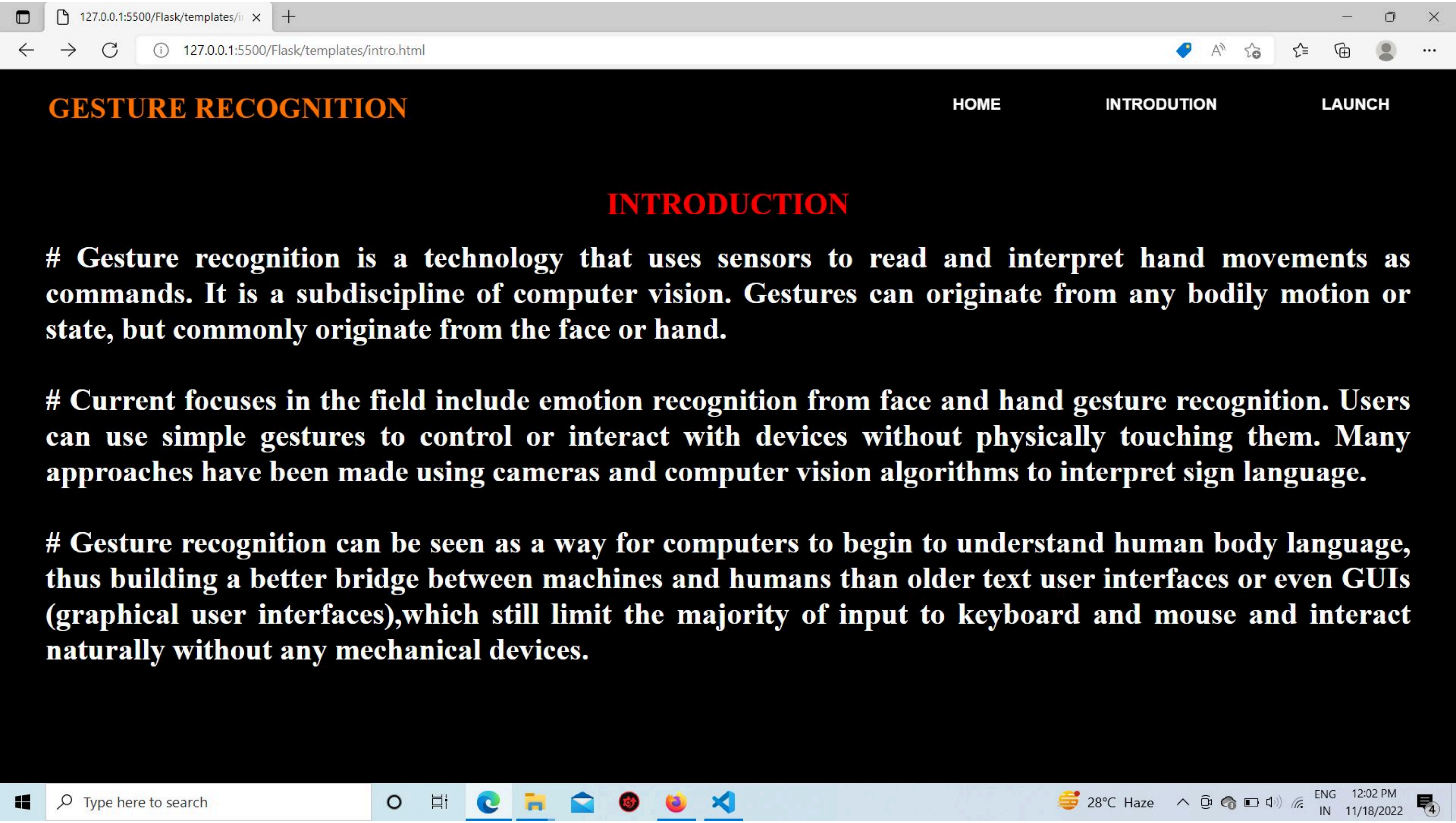
```python

            interrupt = cv2.waitKey(10)
            if interrupt & 0xFF == 27: # esc key
                break


        cap.release()
        cv2.destroyAllWindows()
    return render_template("home.html")

if __name__ == "__main__":
   # running the app
    app.run(debug=False)
```

```
your machine.
2022-11-18 16:22:03.915618: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll';
dlerror: nvcuda.dll not found
2022-11-18 16:22:03.915858: W tensorflow/stream_executor/cuda/cuda_driver.cc:263] failed call to cuInit: UNKNOWN ERROR (303)
2022-11-18 16:22:03.920335: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host:
LAPTOP-9IKNADME
2022-11-18 16:22:03.920653: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:176] hostname: LAPTOP-9IKNADME
2022-11-18 16:22:03.921184: I tensorflow/core/platform/cpu_feature_guard.cc:193] This TensorFlow binary is optimized with oneAPI Deep Neural
Network Library (oneDNN) to use the following CPU instructions in performance-critical operations:  AVX AVX2
To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.
Loaded model from disk
 * Serving Flask app 'app'
 * Debug mode: off
WARNING: This                        er. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
```


127.0.0.1:5500/Flask/templates/h
127.0.0.1:5500/Flask/templates/home.html
HOME
INTRODUTION
LAUNCH
Type here to search
28°C Haze
ENG
IN
12:00 PM
11/18/2022

Hand Gestures System

GESTURE RECOGNITION OF RADIOLOGY IMAGES,
THROUGH STERILE BROWSING.

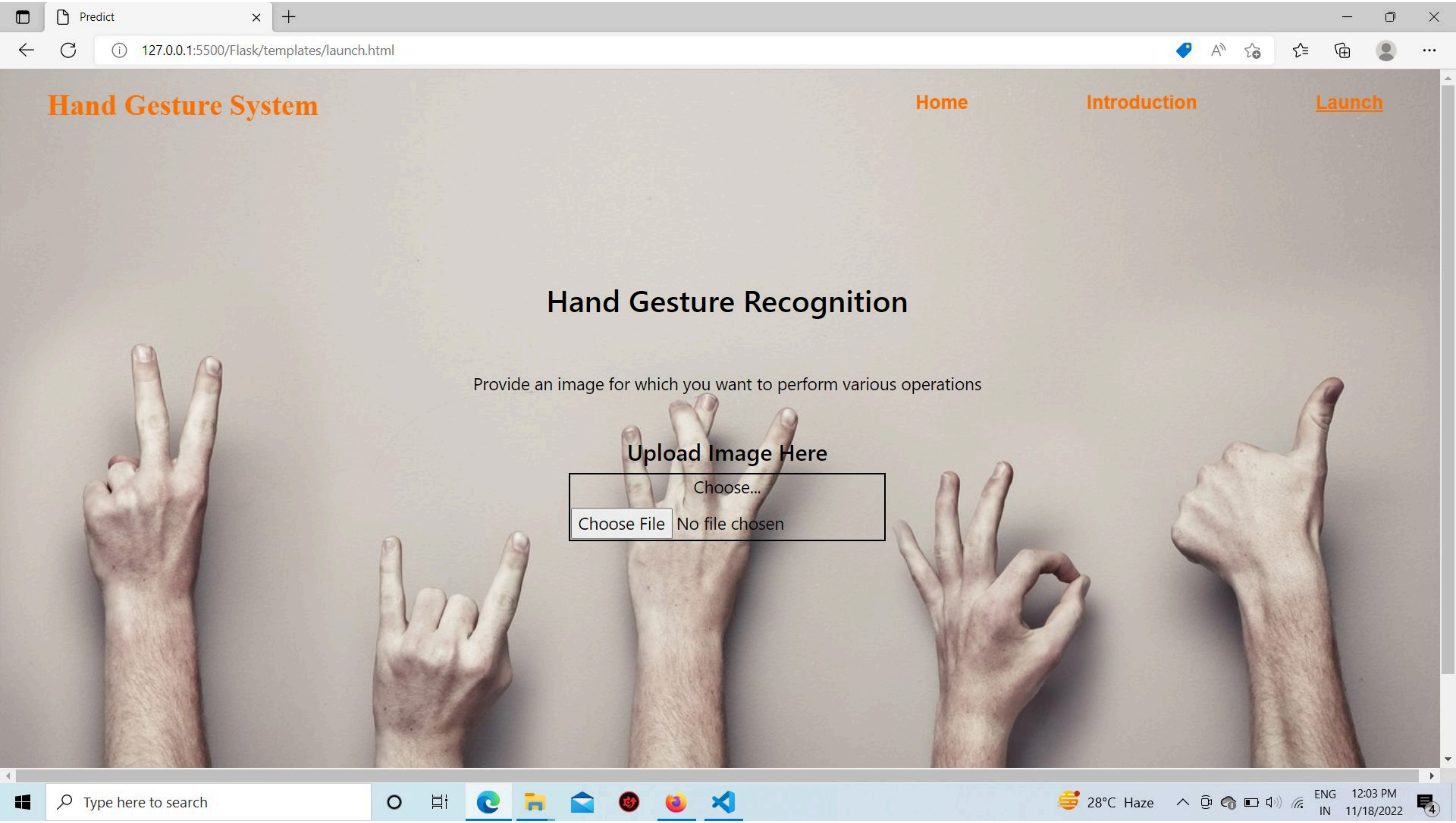


INTRODUCTION

Gesture recognition is a technology that uses sensors to read and interpret hand movements as commands. It is a subdiscipline of computer vision. Gestures can originate from any bodily motion or state, but commonly originate from the face or hand.

Current focuses in the field include emotion recognition from face and hand gesture recognition. Users can use simple gestures to control or interact with devices without physically touching them. Many approaches have been made using cameras and computer vision algorithms to interpret sign language.

Gesture recognition can be seen as a way for computers to begin to understand human body language, thus building a better bridge between machines and humans than older text user interfaces or even GUIs (graphical user interfaces),which still limit the majority of input to keyboard and mouse and interact naturally without any mechanical devices.

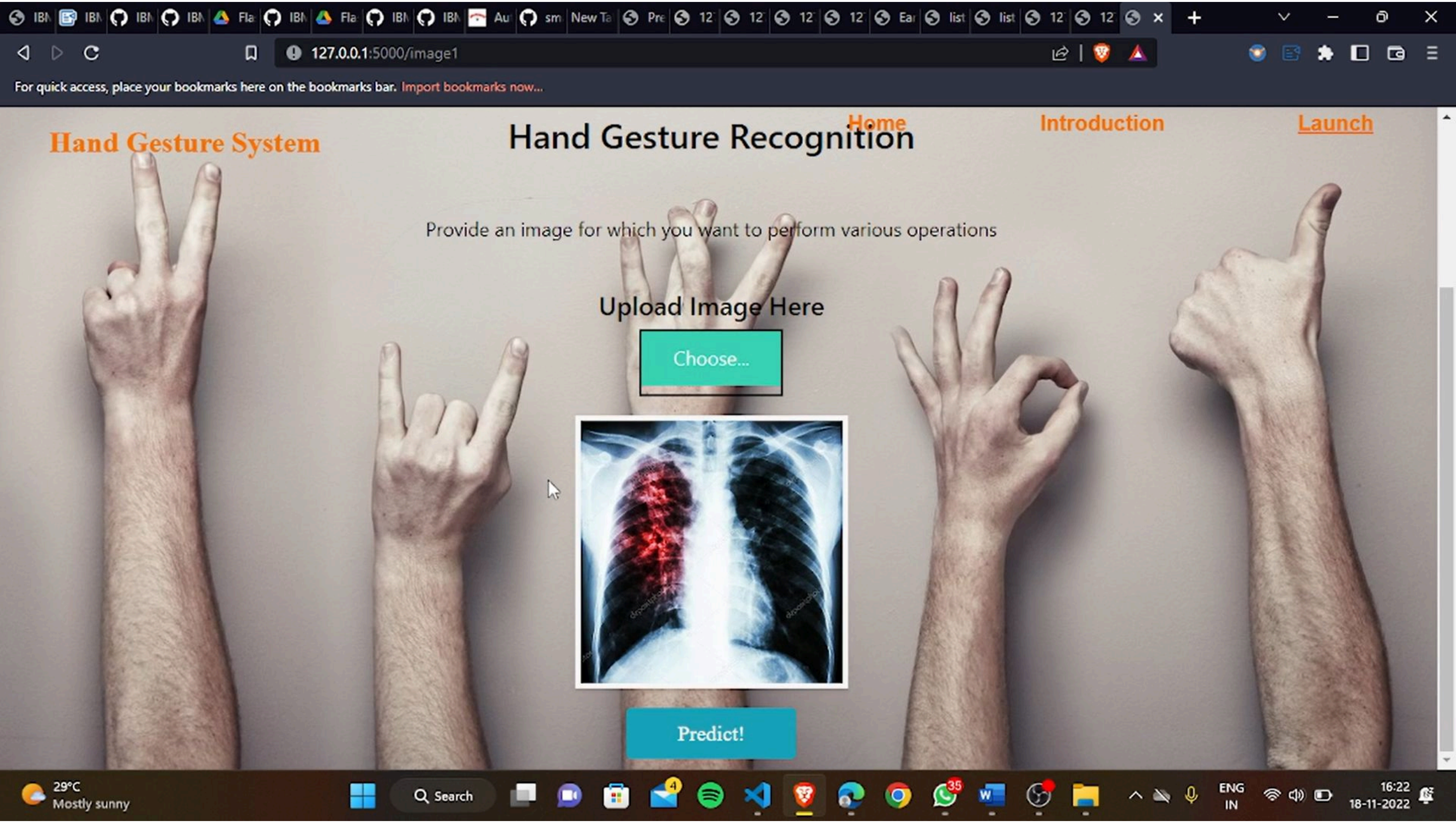


Hand Gesture System

Hand Gesture Recognition

Provide an image for which you want to perform various operations

Upload Image Here

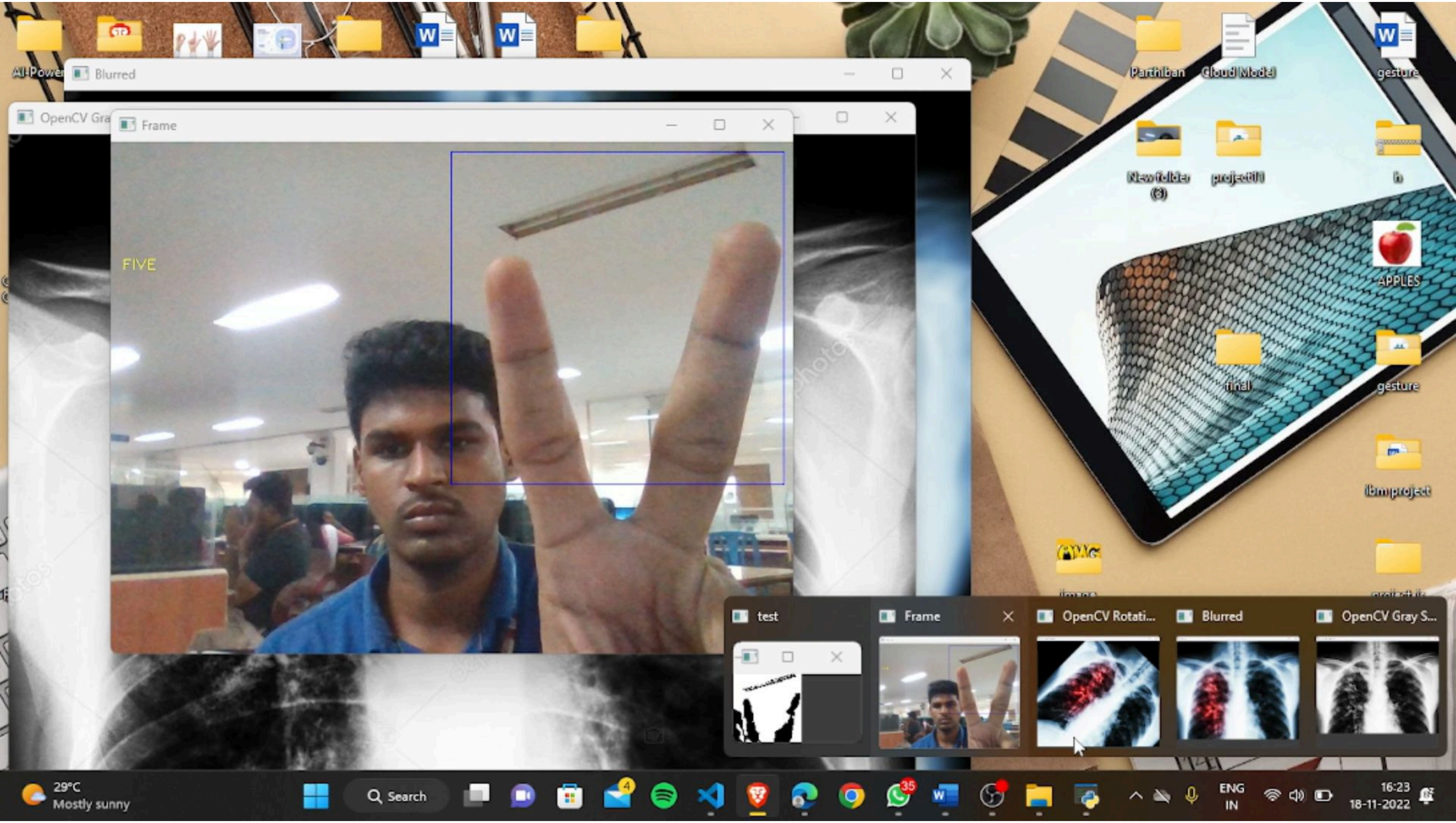


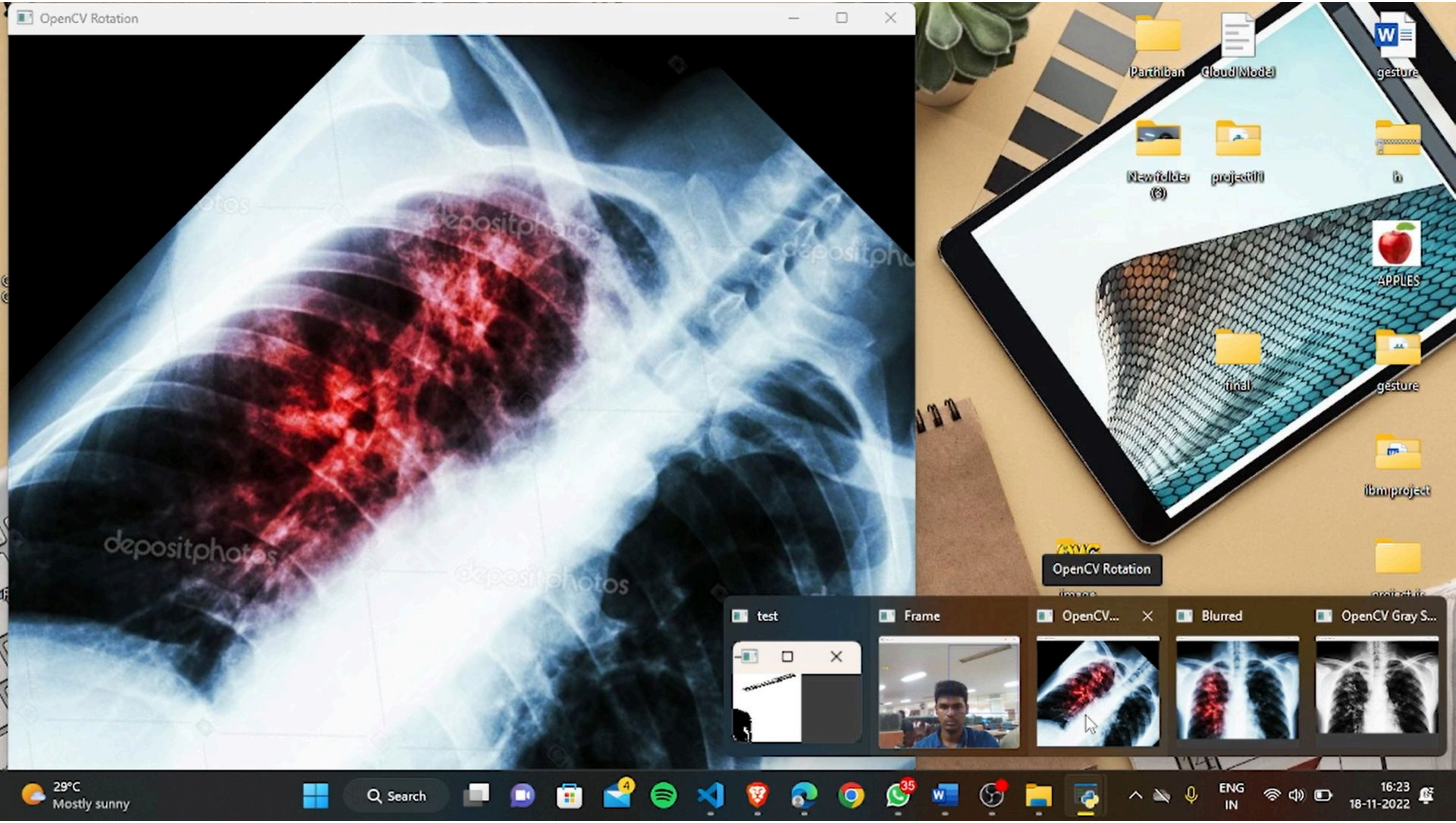
Hand Gesture System

Hand Gesture Recognition

Provide an image for which you want to perform various operations

Upload Image Here


AI Power
Blurred
OpenCV Gra
Frame
FIVE
Parthiban
Cloud Model
gesture
New folder (3)
project11
h
APPLES
final
gesture
ibm project
image
projectuk
test
Frame
OpenCV Rotati...
Blurred
OpenCV Gray S...
29°C
Mostly sunny
Search
ENG
IN
16:23
18-11-2022


OpenCV Rotation
depositphotos
Parthiban
Cloud Model
gesture
New folder (3)
project1
h
APPLES
final
gesture
ibmproject
OpenCV Rotation
image
test
Frame
OpenCV...
Blurred
OpenCV Gray S...
29°C
Mostly sunny
Search
ENG
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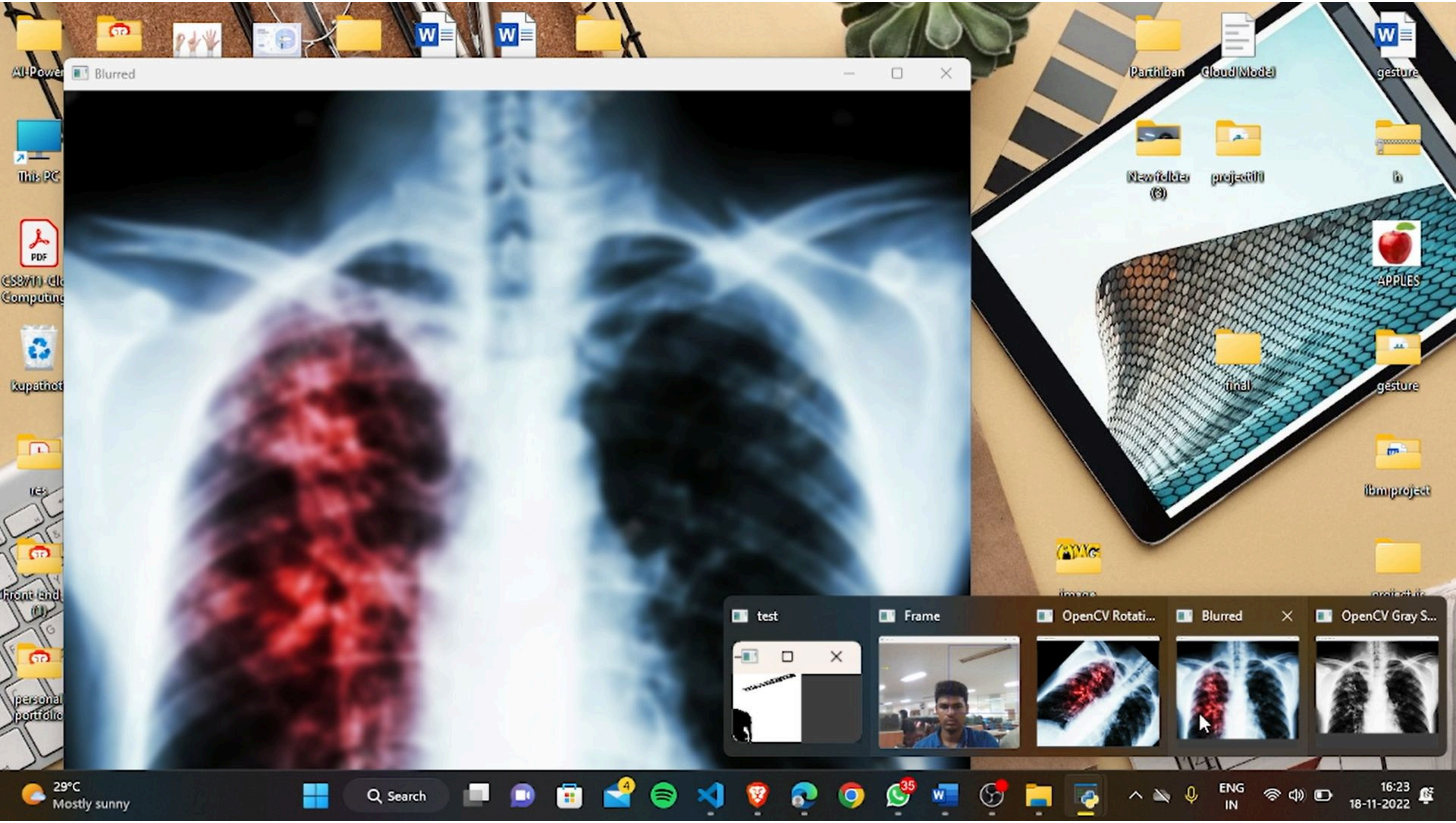
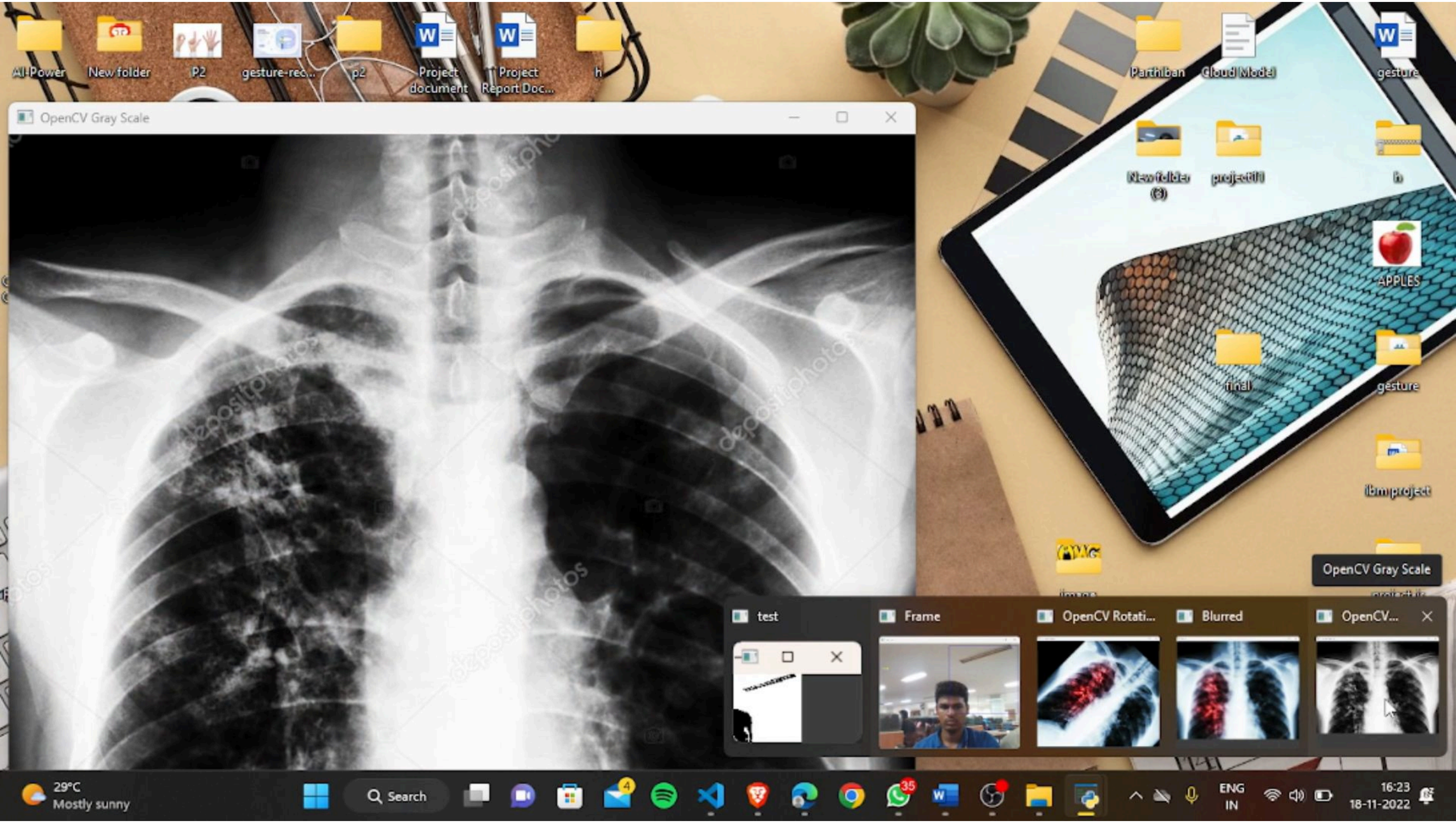
16:23
18-11-2022


Blurred
AI-Power
This PC
CS8711-Cl
Computing
kupathoti
res
Front End
(1)
personal
portfolio
Parthiban
Cloud Model
gesture
New folder
(3)
project1
h
APPLES
final
gesture
ibmproject
image
test
Frame
OpenCV Rotati...
Blurred
OpenCV Gray S...
29°C
Mostly sunny
Search
ENG
IN
16:23
18-11-2022


AI-Power
New folder
P2
gesture-rec...
p2
Project document
Project Report Doc...
h
Parthiban
Cloud Model
gesture
New folder (3)
project11
h
APPLES
final
gesture
ibm project
OpenCV Gray Scale
test
Frame
OpenCV Rotati...
Blurred
OpenCV...
29°C
Mostly sunny
Search
ENG
IN
16:23
18-11-2022