

Flask – app.py

```
Penile_Oedema = request.form['Penile Oedema']
if(Penile_Oedema=='Yes'):
    Penile_Oedema=1
else:
    Penile_Oedema=0
Oral_Lesions = request.form['Oral Lesions']
if(Oral_Lesions=='Yes'):
    Oral_Lesions=1
else:
    Oral_Lesions=0
Sore_Throat = request.form['Sore Throat']
if(Sore_Throat=='Yes'):
    Sore_Throat=1
else:
    Sore_Throat=0
Rectal_Pain = request.form['Rectal Pain']
if(Rectal_Pain=='Yes'):
    Rectal_Pain=1
else:
    Rectal_Pain=0
HIV_Infection = request.form['HIV Infection']
if(HIV_Infection=='Yes'):
    HIV_Infection=1
else:
    HIV_Infection=0
Sexually_Transmitted_Infection= request.form['Sexually Transmitted Infection']
if(Sexually_Transmitted_Infection=='Yes'):
    Sexually_Transmitted_Infection=1
```

app.py > Home

```
1  from flask import Flask, render_template, request
2  # import jsonify
3  # import requests
4  import pickle
5  import numpy as np
6  import sklearn
7  from sklearn.preprocessing import StandardScaler
8  app = Flask(__name__)
9  model = pickle.load(open('Model_pox.pkl', 'rb'))
10 @app.route('/')
11 def Home():
12     return render_template('index.html')
13
14 @app.route("/predict", methods=['GET', 'POST'])
15 def predict():
16     if request.method == 'POST':
17
18         Swollen_Tonsils = request.form['Swollen Tonsils']
19         if(Swollen_Tonsils=='Yes'):
20             Swollen_Tonsils=1
21         else:
22             Swollen_Tonsils=0
23         Solitary_Lesion = request.form['Solitary Lesion']
24         if(Solitary_Lesion=='Yes'):
25             Solitary_Lesion=1
26         else:
27             Solitary_Lesion=0
28         Penile_Oedema = request.form['Penile Oedema']
29         if(Penile_Oedema=='Yes'):
```

```

app.py x DATA-Monkeypox.csv requirements.txt index.html profile project.ipynb
app.py > Home
58 Sys_Ill= request.form['Systemic Illness']
59 if(Sys_Ill=='Fever'):
60     Fever=1
61     Pains=0
62     Lymph_Nodes=0
63 elif(Sys_Ill=='Muscle Aches and Pain'):
64     Fever=0
65     Pains=1
66     Lymph_Nodes=0
67 elif(Sys_Ill=='Swollen Lymph Nodes'):
68     Fever=0
69     Pains=0
70     Lymph_Nodes=1
71 else:
72     Fever=0
73     Pains=0
74     Lymph_Nodes=0
75 prediction=model.predict([[Rectal_Pain,Sore_Throat,Penile_Oedema,Oral_Lesions,Solitary_Lesion,Swol
76 print(prediction)
77
78 if prediction[0]==0:
79     return render_template('index.html',prediction_texts="Congratulations you dont have any monkey
80 else:
81     return render_template('index.html',prediction_texts="Sorry you are like to have Monkey-pox pl
82 else:
83     return render_template('index.html')
84
85 if __name__=="__main__":
86     app.run(debug=True)

```

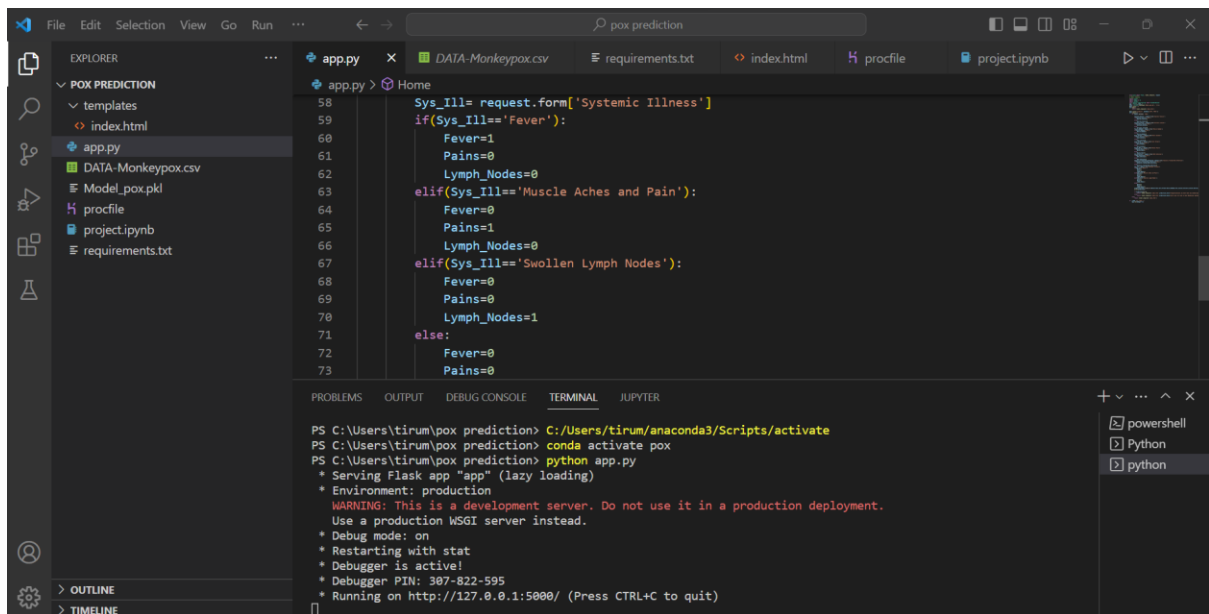
## HTML code

```

app.py DATA-Monkeypox.csv requirements.txt index.html x profile project.ipynb
templates > index.html > html > body
6 <meta name="viewport" content="width=device-width, initial-scale=1.0">
7 <title>Document</title>
8 </head>
9
10 <body>
11
12 <div style="color: blue">
13     <form action="{{ url_for('predict')}}" method="post">
14         <h3>Systemic Illness</h3><br><select name="Systemic Illness" id="Systemic Illness" required="r
15             <option value="Fever">Fever</option>
16             <option value="Muscle Aches and Pain">Muscle Aches and Pain</option>
17             <option value="Swollen Lymph Nodes">Swollen Lymph Nodes</option>
18             <option value="None">None</option>
19         </select>
20         <h3>Rectal Pain</h3><br><select name="Rectal Pain" id="Rectal Pain" required="required">
21             <option value="Yes">Yes</option>
22             <option value="No">No</option>
23         </select>
24         <h3>Sore Throat</h3><br><select name="Sore Throat" id="Sore Throat" required="required">
25             <option value="Yes">Yes</option>
26             <option value="No">No</option>
27         </select>
28         <h3>Penile Oedema</h3><br><select name="Penile Oedema" id="Penile Oedema" required="required">
29             <option value="Yes">Yes</option>
30             <option value="No">No</option>
31         </select>
32         <h3>Oral Lesions</h3><br><select name="Oral Lesions" id="Oral Lesions" required="required">
33             <option value="Yes">Yes</option>
34             <option value="No">No</option>

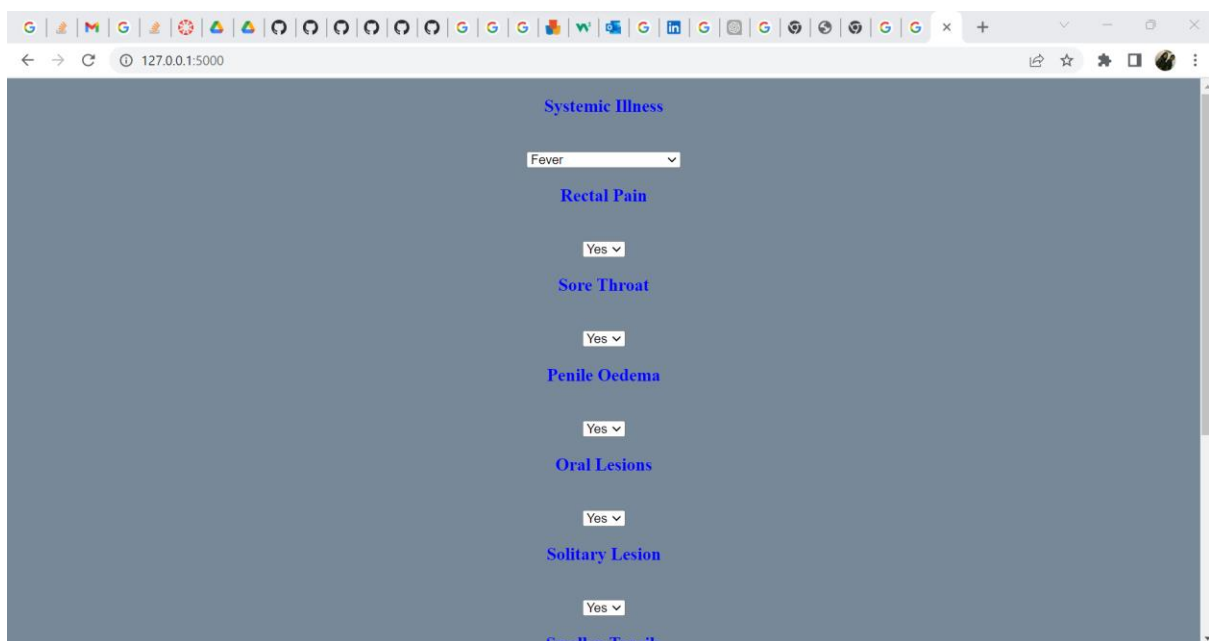
```

Executing app.py file in terminal and got local url test



```
File Edit Selection View Go Run ...
pox prediction
EXPLORER
POX PREDICTION
  templates
  index.html
  app.py
  DATA-Monkeypox.csv
  Model_pox.pkl
  profile
  projectipynb
  requirements.txt
app.py
58 Sys_Ill= request.form['Systemic Illness']
59 if(Sys_Ill=='Fever'):
60     Fever=1
61     Pains=0
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63 elif(Sys_Ill=='Muscle Aches and Pain'):
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66     Lymph_Nodes=0
67 elif(Sys_Ill=='Swollen Lymph Nodes'):
68     Fever=0
69     Pains=0
70     Lymph_Nodes=1
71 else:
72     Fever=0
73     Pains=0
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
PS C:\Users\tirum\pox prediction> C:/Users/tirum/anaconda3/Scripts/activate
PS C:\Users\tirum\pox prediction> conda activate pox
PS C:\Users\tirum\pox prediction> python app.py
* Serving Flask app "app" (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: on
* Restarting with stat
* Debugger is active!
* Debugger PIN: 307-822-595
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

Application in local



Systemic Illness

Fever

Rectal Pain

Yes

Sore Throat

Yes

Penile Oedema

Yes

Oral Lesions

Yes

Solitary Lesion

Yes

Swollen Tonsils

127.0.0.1:5000/predict

Oral Lesions

Yes ▾

Solitary Lesion

Yes ▾

Swollen Tonsils

Yes ▾

HIV Infection

Yes ▾

Sexually Transmitted Infection

Yes ▾

Submit

Sorry you are like to have Monkey-pox please check with doctor