APPLICATION BUILDING Run the APP

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Team ID	PNT2022TMID12917
Project Name	Project - Early Detection Of Chronic Kidney
	Disease Using Machine Learning

The four html files are created and are stored in a folder called templates. The html files are

- Home page
- Index page (to get inputs)
- Prediction Yes page
- Prediction No page

All the html files and the pickle file of the saved model are integrated using a flask file called app.py. The app.py flask file which is a web framework written in python for server-side scripting is coded and run on jupyter notebook.

```
import numpy as np
import pandas as pd
from flask import Flask,request,render_template
import pickle as pk
app=Flask(__name__)
model=pk.load(open('CKD.pkl','rb'))
@app.route('/')
def home():
          return render_template('homepage.html')
@app.route('/Prediction',methods=['POST','GET'])
def prediction():
     "return render_template('indexpage.html')
@app.route('/Home',methods=['POST','GET'])
def my home():
        → return render_template('homepage.html')
 @app.route('/predict',methods=['POST'])
def predict():
             input_features=[float(x) for x in request.form.values()]
features_value=[np.array(input_features)]
             features\_name = [\ 'blood\_urea', 'blood\_glucose\_random', 'coronary\_artery\_disease', 'anemia', 'pus\_cell', 'red\_blood\_cells', 'diabetesm', 'blood\_glucose\_random', 'coronary\_artery\_disease', 'anemia', 'pus\_cell', 'red\_blood\_cells', 'diabetesm', 'blood\_glucose\_random', 'coronary\_artery\_disease', 'anemia', 'pus\_cell', 'red\_blood\_cells', 'diabetesm', 'diabetesm',
            df=pd.DataFrame(features_value,columns=features_name)
            output=model.predict(df)
            if(output==1):
                          return render_template('predictionNo.html')
                        return render_template('predictionYes.html')
              name
                                                      main
             app.run(debug=False)
```

The app.py runs on the local host: 5000 and the web page is viewed.





