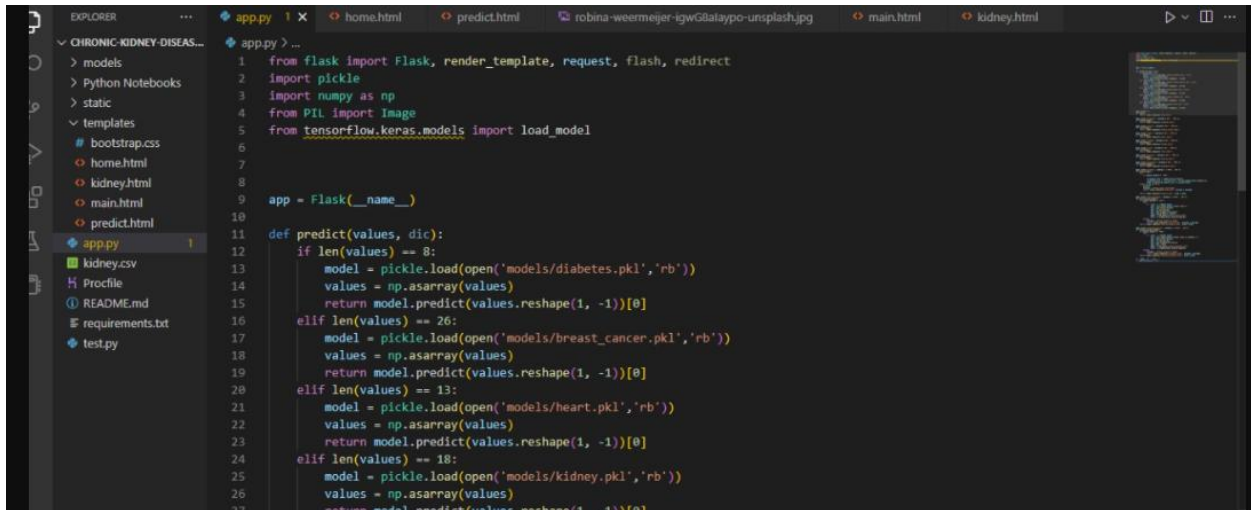


## SPRINT 3

DATE	18 NOV 2022
TEAM ID	PNT2022TMID41072
PROJECT NAME	EARLY PREDICTION OF CHRONIC KIDNEY DISEASE USING MACHINE LEARNING

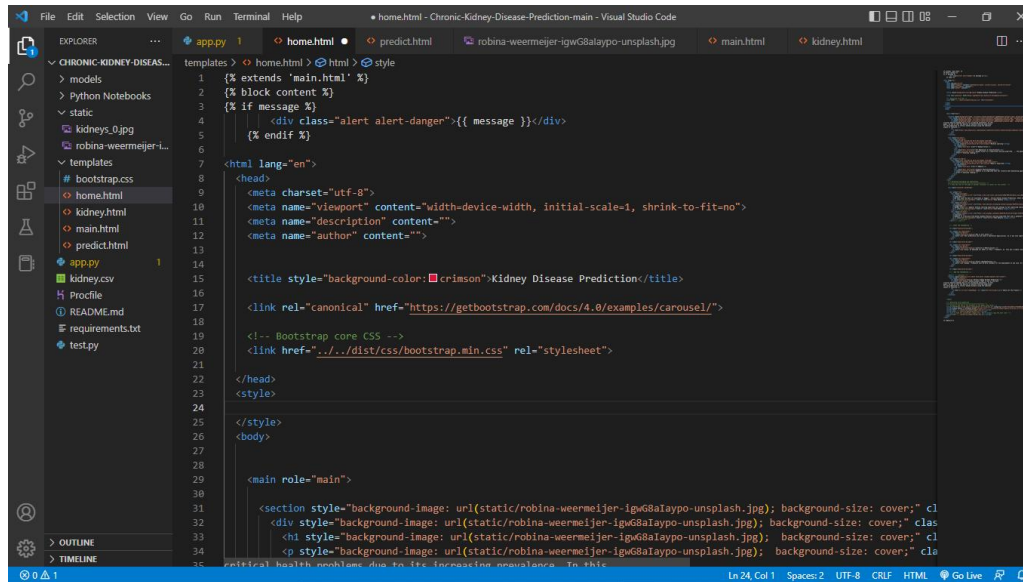
In this sprint we are doing normal deployment

### App.py Code Screen



```
1 from flask import Flask, render_template, request, flash, redirect
2 import pickle
3 import numpy as np
4 from PIL import Image
5 from tensorflow.keras.models import load_model
6
7
8 app = Flask(__name__)
9
10
11 def predict(values, dic):
12     if len(values) == 8:
13         model = pickle.load(open('models/diabetes.pkl', 'rb'))
14         values = np.asarray(values)
15         return model.predict(values.reshape(1, -1))[0]
16     elif len(values) == 26:
17         model = pickle.load(open('models/breast_cancer.pkl', 'rb'))
18         values = np.asarray(values)
19         return model.predict(values.reshape(1, -1))[0]
20     elif len(values) == 13:
21         model = pickle.load(open('models/heart.pkl', 'rb'))
22         values = np.asarray(values)
23         return model.predict(values.reshape(1, -1))[0]
24     elif len(values) == 18:
25         model = pickle.load(open('models/kidney.pkl', 'rb'))
26         values = np.asarray(values)
27         return model.predict(values.reshape(1, -1))[0]
```

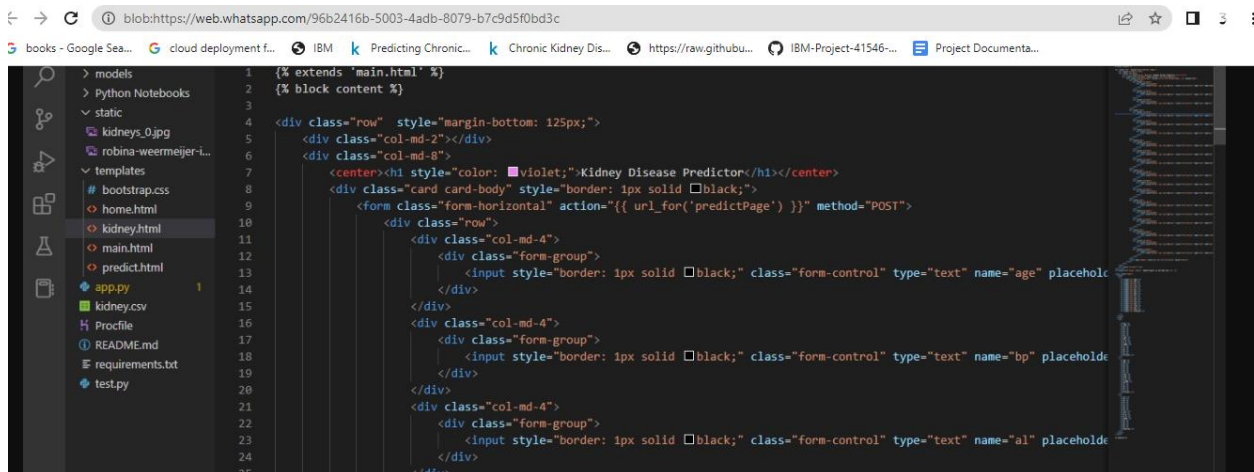
## home.html Code Screen



The screenshot shows the Visual Studio Code editor with the 'home.html' file open. The file is part of a project named 'Chronic-Kidney-Disease-Prediction-main'. The Explorer sidebar on the left shows the project structure, including folders for 'models', 'Python Notebooks', 'static', and 'templates', and files like 'kidneys\_0.jpg', 'robina-weermeijer-l...', 'bootstrap.css', 'home.html', 'kidney.html', 'main.html', 'predict.html', 'app.py', 'kidney.csv', 'Profile', 'README.md', 'requirements.txt', and 'test.py'. The main editor area displays the HTML code for 'home.html', which includes a Jinja2 template block, a Bootstrap 4 layout with a row and columns, a title 'Kidney Disease Predictor', a description, a link to the Bootstrap documentation, and a form for predicting kidney disease. The form has three input fields for 'age', 'bp', and 'a1', each with a placeholder and a border. The form is styled with a background image of a kidney and a background color of crimson.

```
1 {% extends "main.html" %}
2 {% block content %}
3
4 <div class="row" style="margin-bottom: 125px;">
5   <div class="col-md-2"></div>
6   <div class="col-md-8">
7     <center><h1 style="color: #800080;">Kidney Disease Predictor</h1></center>
8     <div class="card card-body" style="border: 1px solid black;">
9       <form class="form-horizontal" action="{{ url_for('predictPage') }}" method="POST">
10         <div class="row">
11           <div class="col-md-4">
12             <div class="form-group">
13               <input style="border: 1px solid black;" class="form-control" type="text" name="age" placeholder="Age" />
14             </div>
15           <div class="col-md-4">
16             <div class="form-group">
17               <input style="border: 1px solid black;" class="form-control" type="text" name="bp" placeholder="Blood Pressure" />
18             </div>
19           <div class="col-md-4">
20             <div class="form-group">
21               <input style="border: 1px solid black;" class="form-control" type="text" name="a1" placeholder="A1C" />
22             </div>
23           </div>
24         </div>
25       </form>
26     </div>
27   </div>
28 </div>
```

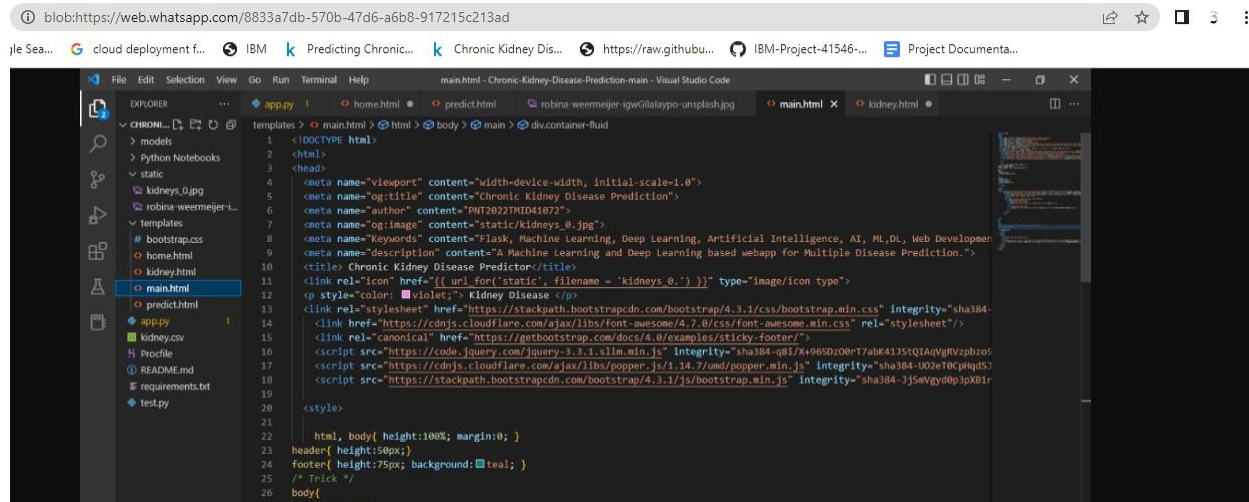
## Kidney.html code screen



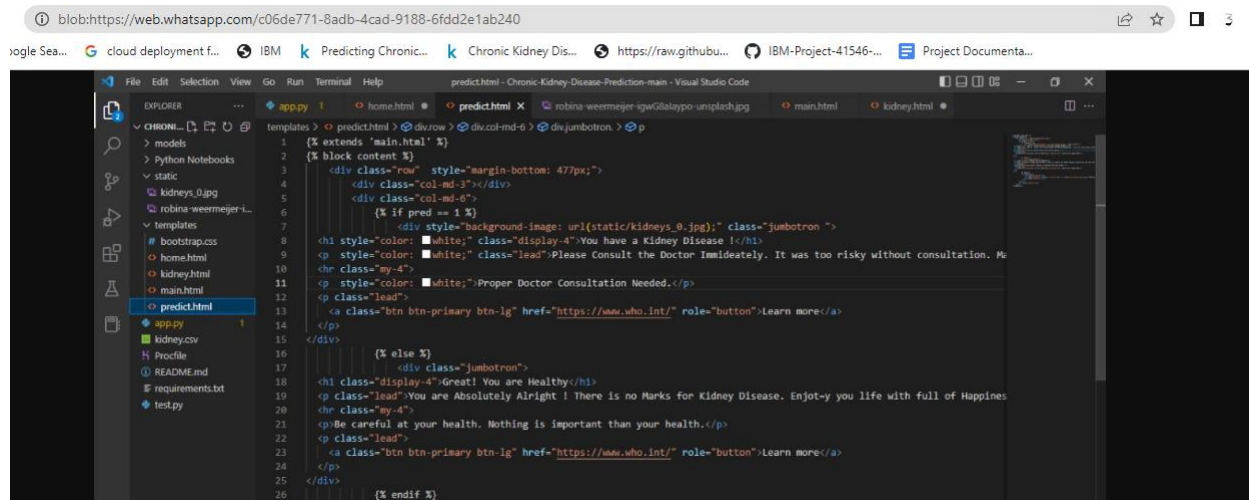
The screenshot shows a web browser displaying the 'kidney.html' page. The page is a form for predicting kidney disease. It features a title 'Kidney Disease Predictor' in the center, followed by a description: 'This web application is designed to help you predict the likelihood of a person having kidney disease based on their age, blood pressure, and A1C levels. The results are displayed in a table below the form.' Below the description is a form with three input fields: 'Age', 'Blood Pressure', and 'A1C'. Each field has a placeholder and a border. The form is styled with a background image of a kidney and a background color of crimson. The form is submitted using the POST method to the 'predictPage' endpoint. The results are displayed in a table below the form.

```
1 <div class="row" style="margin-bottom: 125px;">
2   <div class="col-md-2"></div>
3   <div class="col-md-8">
4     <center><h1 style="color: #800080;">Kidney Disease Predictor</h1></center>
5     <div class="card card-body" style="border: 1px solid black;">
6       <div class="form-horizontal" style="margin-bottom: 10px;">
7         <div class="row">
8           <div class="col-md-4">
9             <div class="form-group">
10               <input style="border: 1px solid black;" class="form-control" type="text" name="age" placeholder="Age" />
11             </div>
12           <div class="col-md-4">
13             <div class="form-group">
14               <input style="border: 1px solid black;" class="form-control" type="text" name="bp" placeholder="Blood Pressure" />
15             </div>
16           <div class="col-md-4">
17             <div class="form-group">
18               <input style="border: 1px solid black;" class="form-control" type="text" name="a1" placeholder="A1C" />
19             </div>
20           </div>
21         </div>
22         <div class="form-group">
23           <input type="submit" value="Predict" />
24         </div>
25       </div>
26     </div>
27   </div>
28 </div>
```

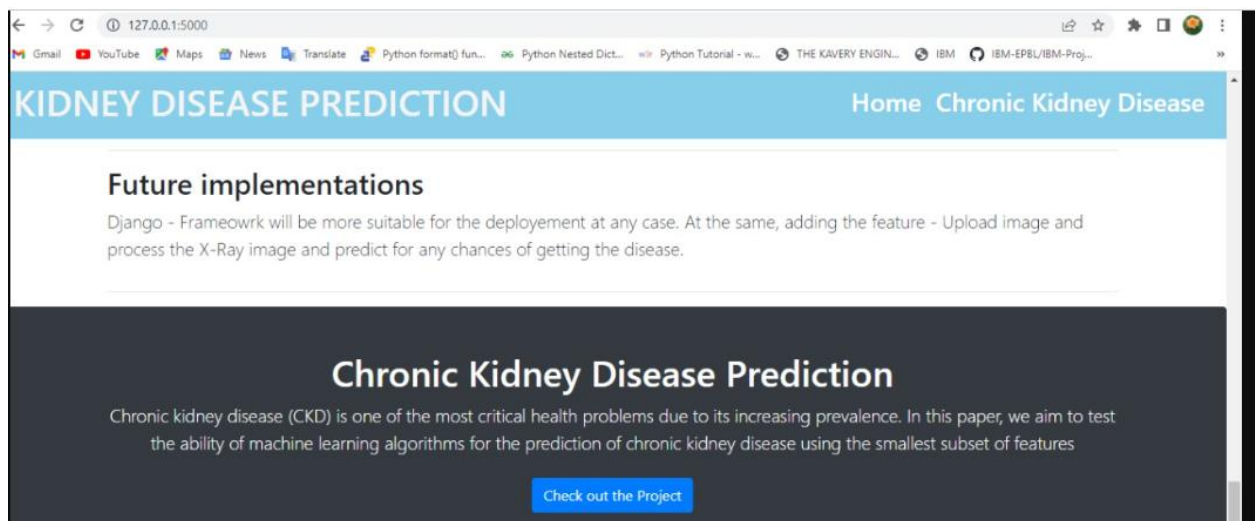
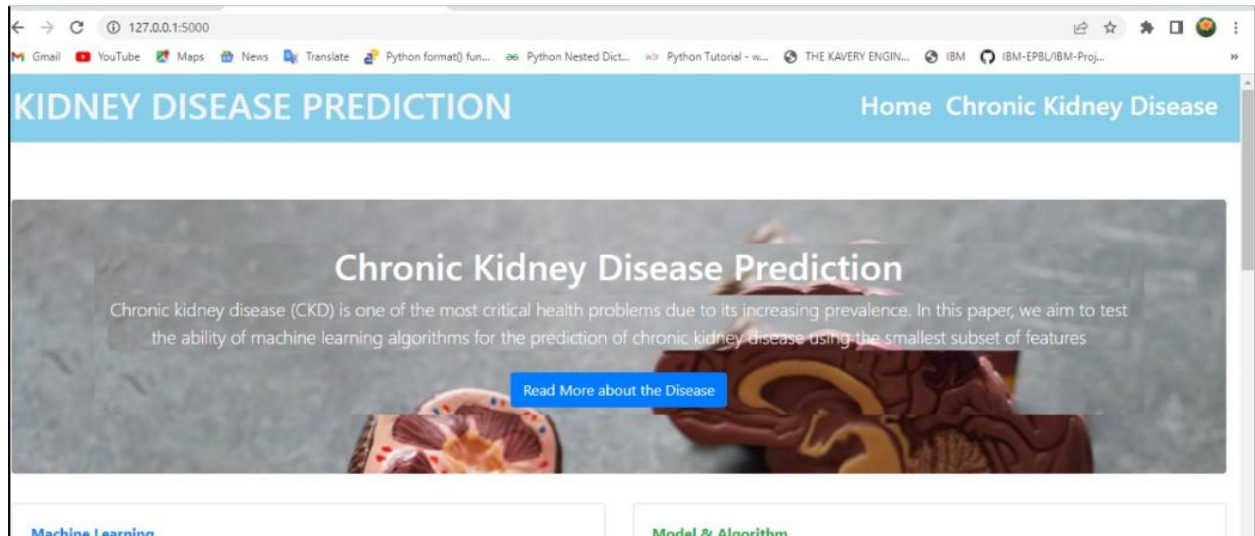
### Main.html code screen



### Predict.html code screen



### Home.html output screen



## Kidney.html output screen

KIDNEY DISEASE PREDICTION Home Chronic Kidney Disease

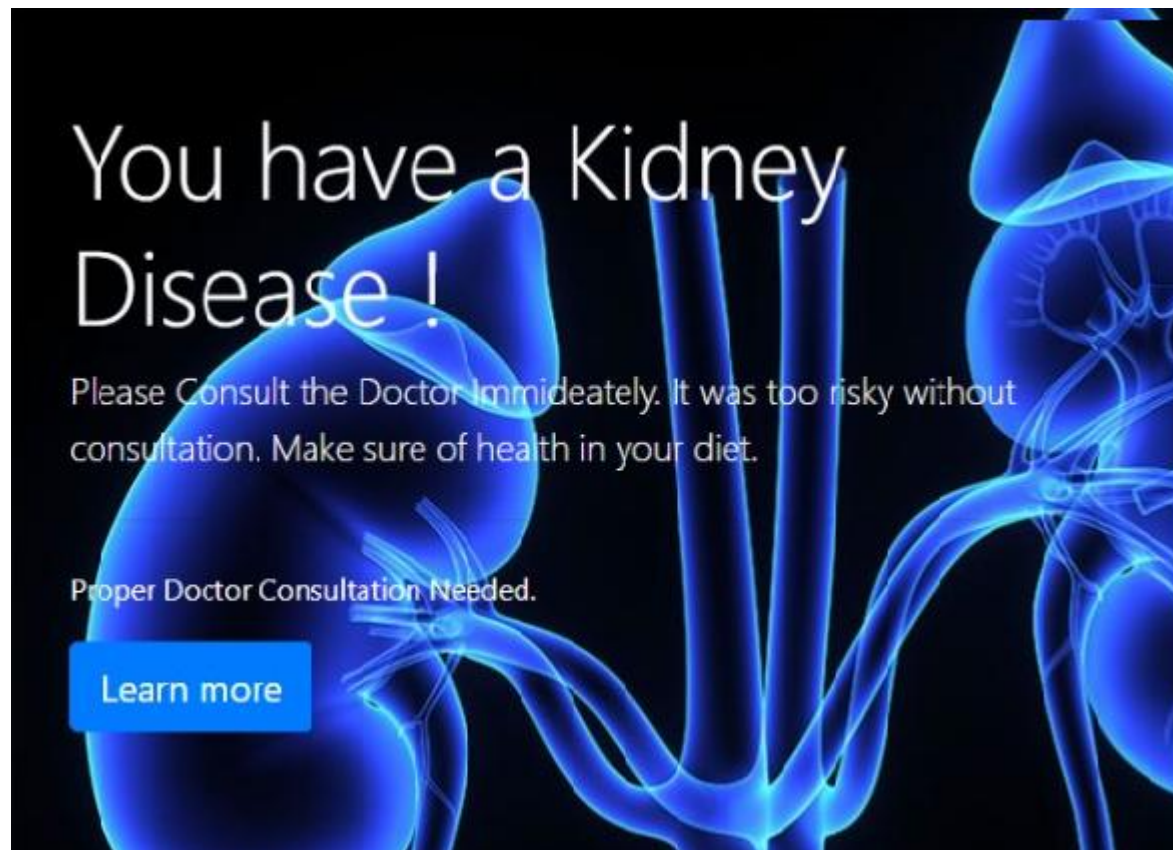
### Kidney Disease Predictor

<input type="text" value="age"/>	<input type="text" value="bp"/>	<input type="text" value="al"/>
<input type="text" value="su"/>	<input type="text" value="rbc"/>	<input type="text" value="pc"/>
<input type="text" value="pcc"/>	<input type="text" value="ba"/>	<input type="text" value="bgr"/>
<input type="text" value="bu"/>	<input type="text" value="sc"/>	<input type="text" value="pot"/>
<input type="text" value="wc"/>	<input type="text" value="htn"/>	<input type="text" value="dm"/>
<input type="text" value="cad"/>	<input type="text" value="pe"/>	<input type="text" value="ane"/>

[Predict](#)

Activate Windows

## Predict.html output screen



# You have a Kidney Disease !

Please Consult the Doctor Immedeately. It was too risky without consultation. Make sure of health in your diet.

Proper Doctor Consultation Needed.

[Learn more](#)