

SPRINT 3

Date	10 November 2022
Team ID	PNT2022TMID01412
Project Name	Project – Early Detection of Chronic Kidney Disease using Machine Learning

In this sprint we are doing local deployment

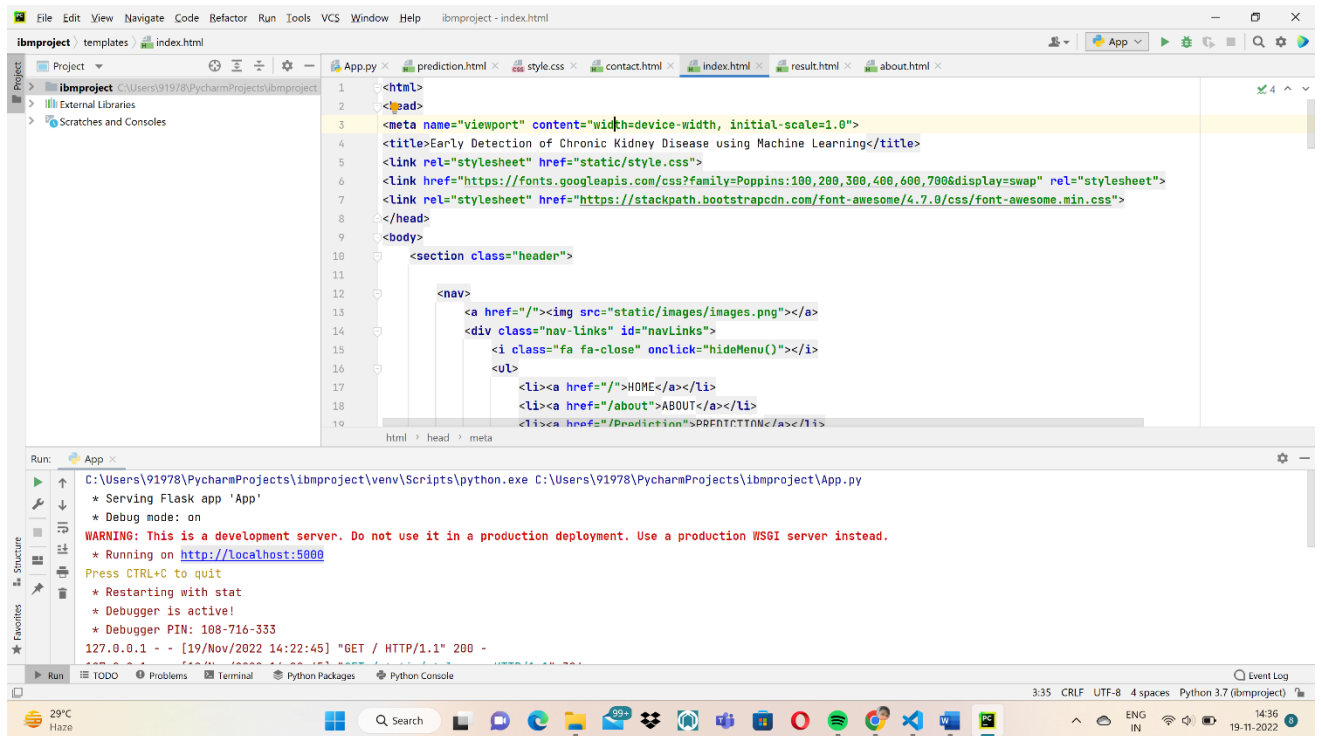
- **App.py Code Screen**

The screenshot displays the PyCharm IDE interface. The left sidebar shows the project structure for 'ibmproject', including folders for 'Models', 'static', and 'templates', and a 'venv' directory. The main editor window shows the 'App.py' file with the following code:

```
1 import numpy as np
2 import pandas as pd
3 import sklearn
4 from flask import Flask, request, render_template
5 import pickle5 as pickle
6
7
8 app = Flask(__name__)
9 model = pickle.load(open('Models/modeling.pkl', 'rb'))
10
11
12 @app.route('/')
13 def home():
14     return render_template('index.html')
15
16
17 @app.route('/Prediction', methods=['POST', 'GET'])
18 def prediction():
19     return render_template('prediction.html')
```

The bottom panel shows the 'Run' output for the 'App' application. It indicates that the Flask app is serving on <http://localhost:5000> in debug mode. A warning message is displayed: "WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead." The output also shows the path to the installed packages: `C:\Users\91978\PycharmProjects\ibmproject\venv\lib\site-packages\sklearn\base.py:338: UserWarning: Trying to unpickle estimator SVC from version 0.25.2 when using version 1.0.2. This might lead to different behavior. See: https://scikit-learn.org/stable/modules/model_persistence.html#security-maintainability-limitations`.

- **home.html Code Screen**

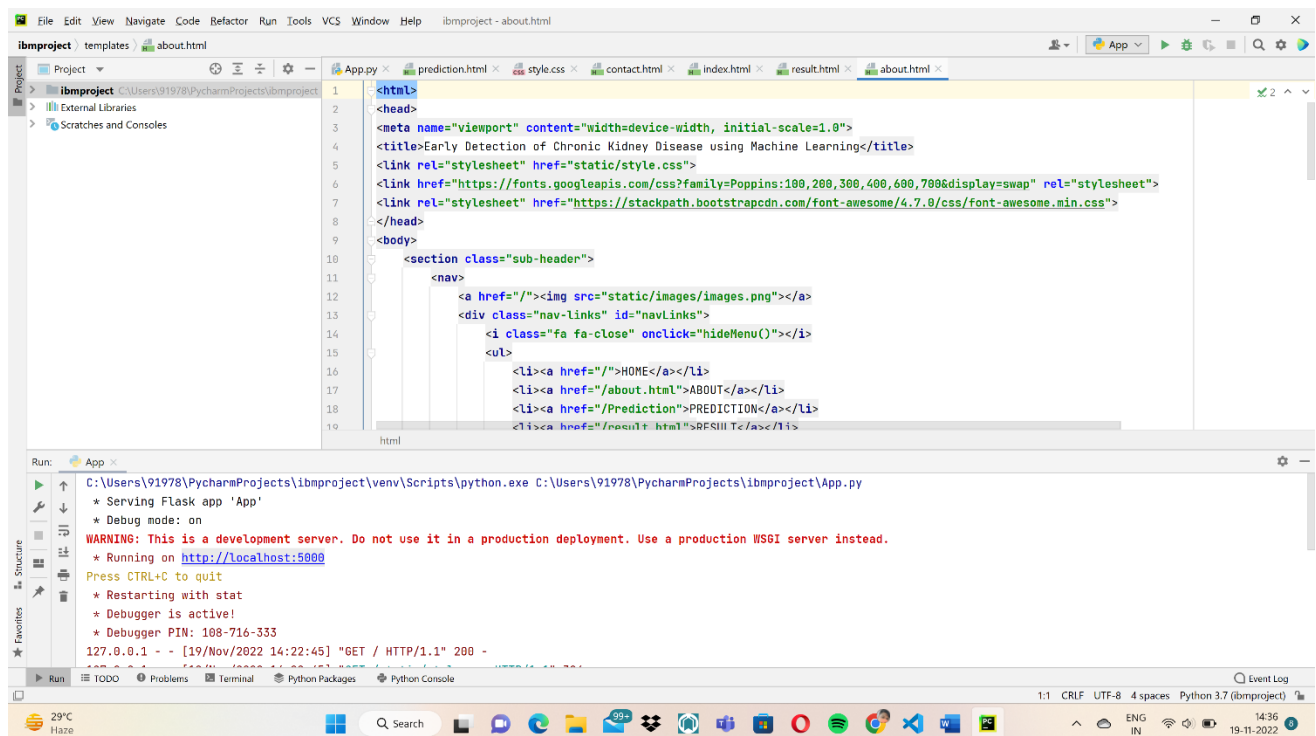


The screenshot shows the PyCharm IDE with the `index.html` file open. The code is as follows:

```
1 <html>
2 <head>
3   <meta name="viewport" content="width=device-width, initial-scale=1.0">
4   <title>Early Detection of Chronic Kidney Disease using Machine Learning</title>
5   <link rel="stylesheet" href="static/style.css">
6   <link href="https://fonts.googleapis.com/css?family=Poppins:100,200,300,400,600,700&display=swap" rel="stylesheet">
7   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css">
8 </head>
9 <body>
10   <section class="header">
11     <nav>
12       <a href="/"></a>
13       <div class="nav-links" id="navLinks">
14         <i class="fa fa-close" onClick="hideMenu()"></i>
15         <ul>
16           <li><a href="/">HOME</a></li>
17           <li><a href="/about">ABOUT</a></li>
18           <li><a href="/Prediction">PREDICTION</a></li>
19           <li><a href="/result.html">RESULTS</a></li>
20         </ul>
21       </div>
22     </nav>
23   </section>
24 </body>
25 </html>
```

The terminal window shows the Flask application running on `http://localhost:5000`. The output includes a warning about using a development server and a successful GET request from `127.0.0.1`.

- **about.html Code Screen**



The screenshot shows the PyCharm IDE with the `about.html` file open. The code is as follows:

```
1 <html>
2 <head>
3   <meta name="viewport" content="width=device-width, initial-scale=1.0">
4   <title>Early Detection of Chronic Kidney Disease using Machine Learning</title>
5   <link rel="stylesheet" href="static/style.css">
6   <link href="https://fonts.googleapis.com/css?family=Poppins:100,200,300,400,600,700&display=swap" rel="stylesheet">
7   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css">
8 </head>
9 <body>
10   <section class="sub-header">
11     <nav>
12       <a href="/"></a>
13       <div class="nav-links" id="navLinks">
14         <i class="fa fa-close" onClick="hideMenu()"></i>
15         <ul>
16           <li><a href="/">HOME</a></li>
17           <li><a href="/about.html">ABOUT</a></li>
18           <li><a href="/Prediction">PREDICTION</a></li>
19           <li><a href="/result.html">RESULTS</a></li>
20         </ul>
21       </div>
22     </nav>
23   </section>
24 </body>
25 </html>
```

The terminal window shows the Flask application running on `http://localhost:5000`. The output includes a warning about using a development server and a successful GET request from `127.0.0.1`.

- prediction.html Code Screen

The screenshot shows the PyCharm IDE with the `prediction.html` file open. The code is as follows:

```
1 <html>
2 <head>
3   <meta name="viewport" content="width=device-width, initial-scale=1.0">
4   <title>Early Detection of Chronic Kidney Disease using Machine Learning</title>
5   <link rel="stylesheet" href="static/style.css">
6   <link href="https://fonts.googleapis.com/css?family=Poppins:100,200,300,400,600,700&display=swap" rel="stylesheet">
7   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css">
8 </head>
9 <body>
10   <section>
11     <div>
12       </div>
13     <div>
14       <div class="nav-links">
15         <ul>
16           <li><a href="/">HOME</a></li>
17           <li><a href="/about">ABOUT</a></li>
18           <li><a href="/Prediction">PREDICTION</a></li>
19           <li><a href="/result.html">RESULT</a></li>
20         </ul>
21       </div>
22     </div>
23   </section>
24 </body>
25 </html>
```

The terminal window shows the following output:

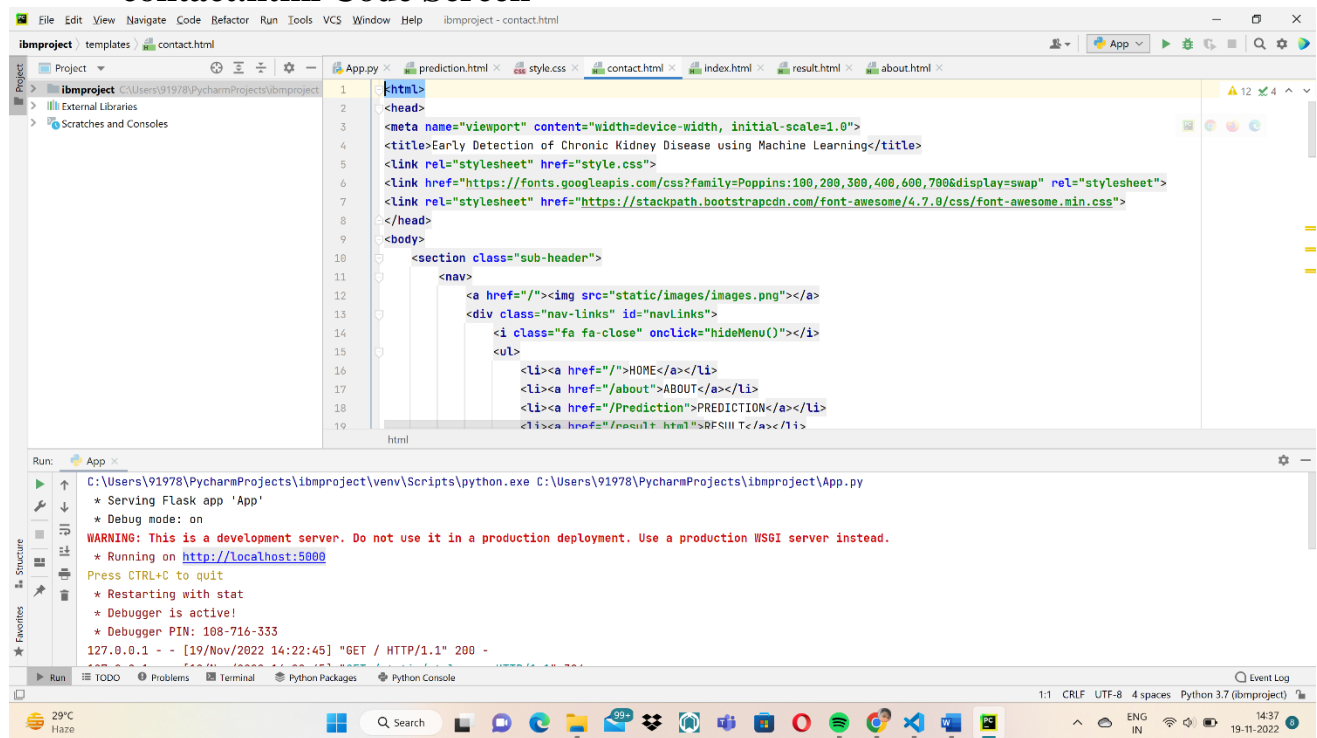
```
C:\Users\91978\PycharmProjects\ibmproject\venv\Scripts\python.exe C:\Users\91978\PycharmProjects\ibmproject\App.py
* Serving Flask app 'App'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://localhost:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 108-716-333
127.0.0.1 - - [19/Nov/2022 14:22:45] "GET / HTTP/1.1" 200 -
```

- result.html Code Screen

The screenshot shows the PyCharm IDE with the `result.html` file open. The code is as follows:

```
5 <link rel="stylesheet" href="static/style.css">
6 <link href="https://fonts.googleapis.com/css?family=Poppins:100,200,300,400,600,700&display=swap" rel="stylesheet">
7 <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css">
8 </head>
9 <body id="top">
10   <section class="sub-header">
11     <div>
12       <div class="nav-links">
13         <ul>
14           <li><a href="/">HOME</a></li>
15           <li><a href="/about">ABOUT</a></li>
16           <li><a href="/Prediction">PREDICTION</a></li>
17           <li><a href="/result.html">RESULT</a></li>
18           <li><a href="/contact.html">CONTACT</a></li>
19         </ul>
20       </div>
21     </div>
22   </section>
23   <div class="container">
24     <div class="row">
25       <div style="text-align: center;">
26         <h1>Chronic Kidney Disease</h1><h3>Machine Learning Web Application</h3>
27       </div>
28     </div>
29   </div>
30 </body>
31 </html>
```

• contact.html Code Screen



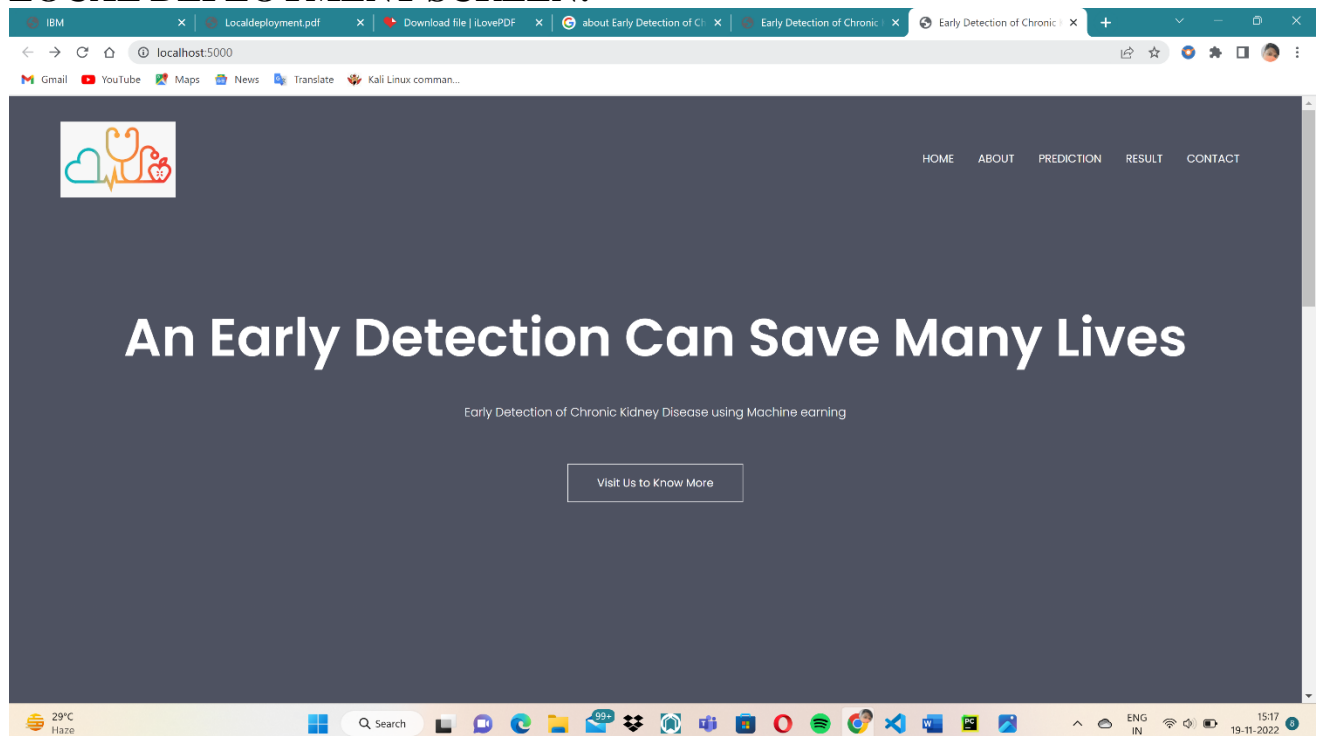
The screenshot shows the PyCharm IDE with the `contact.html` file open. The code is as follows:

```
1 <html>
2 <head>
3   <meta name="viewport" content="width=device-width, initial-scale=1.0">
4   <title>Early Detection of Chronic Kidney Disease using Machine Learning</title>
5   <link rel="stylesheet" href="style.css">
6   <link href="https://fonts.googleapis.com/css?family=Poppins:100,200,300,400,600,700&display=swap" rel="stylesheet">
7   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css">
8 </head>
9 <body>
10   <section class="sub-header">
11     <nav>
12       <a href="/"></a>
13       <div class="nav-links" id="navLinks">
14         <i class="fa fa-close" onclick="hideMenu()"></i>
15         <ul>
16           <li><a href="/">HOME</a></li>
17           <li><a href="/about">ABOUT</a></li>
18           <li><a href="/Prediction">PREDICTION</a></li>
19           <li><a href="/result.html">RESULT</a></li>
20         </ul>
21       </div>
22     </nav>
23   </section>
24 </body>
25 </html>
```

The Run console shows the following output:

```
C:\Users\91978\PycharmProjects\ibmproject\venv\Scripts\python.exe C:\Users\91978\PycharmProjects\ibmproject\App.py
* Serving Flask app 'App'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://localhost:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 108-716-333
127.0.0.1 - - [19/Nov/2022 14:22:45] "GET / HTTP/1.1" 200 -
```

LOCAL DEPLOYMENT SCREEN:



about.html

IBM

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about Early Detection of Cl

Early Detection of Chronic

Early Detection of Chronic

localhost:5000/about


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About Us

Chronic Kidney Disease using Machine Learning

The only way to find out if people have CKD is through simple blood and urine tests. The blood test checks for the level of creatinine, a waste product produced by muscles, to see how well the kidneys work. The urine test checks for protein, which may indicate kidney damage.

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CKD Categories

Stage 1 Normal

Stage 2 Mild CKD

Stage 3A Moderate CKD

Stage 3B Moderate CKD

Stage 4 Severe CKD

Stage 5 End Stage CKD

GFR>90ml/min

GFR=60-89ml/min

GFR=45-59ml/min

GFR=30-44ml/min

GFR=15-29ml/min

GFR<15ml/min

Chronic Kidney Disease

Machine Learning

Blood Urea

Blood Glucose Random

Select Anemia

Select Coronary Artery Disease

Select Pus Cell

Select Red Blood Cell

Select Diabetics Mellitus

Select Pedal Edema

predict

About Us

The only way to find out if people have CKD is through simple blood and urine tests. The blood test checks for the level of creatinine, a waste product produced by muscles, to see how well the kidneys work. The urine test checks for protein, which may indicate kidney damage.

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result.html

IBM Project-5478-1658766875/ Early Detection of Chronic Kidney Disease

localhost:5000/result

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Prediction Result


Chronic Kidney Disease

Machine Learning Web Application

Medical Result

Your Condition is abnormal.

You are having chronic kidney disease.



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contact.html

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