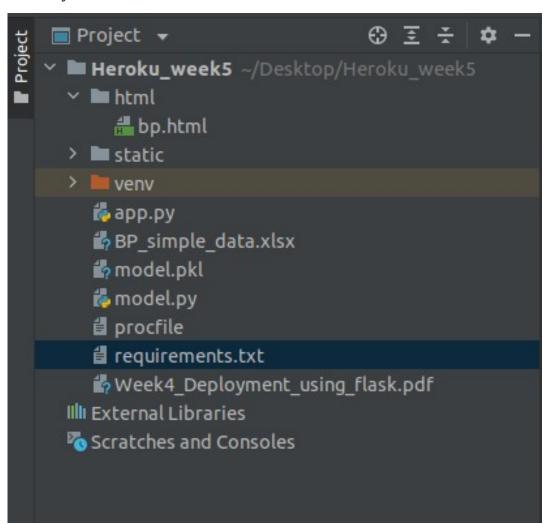
Week5: Cloud API Deployment

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Submission Date: 19/09/2021 **Submitted to:** Data Glacier

For the Week5- Cloud API Deployment the following steps were applied.

Directory:



Step 1:

- Found a sample Blood pressure Data
- Converted the .xlsx file format to .pkl using python code.
- Saved the file in model.pkl in the directory

```
pp.py x model.py x bp.html x style.css x

import pandas as pan
import pickle
data = pan.read_excel('BP_simple_data.xlsx')

x1 = data.iloc[:_1:]
x2 = data.iloc[:_0:1]

reg = LinearRegression()
reg.fit(x1_x2)

prediction = reg.predict(x1)
pickle.dump(reg, open('model.pkl'__'wb'))
```

Step 2:

Creating of the HTML (bp.html) and CSS (style.css) file

```
<!DOCTYPE html>
<html lang="en">
 <meta charset="UTF-8">
k href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet' type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Open-Sans+Condensed:300' rel='stylesheet' type='text/css'>
 <link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">
         1v class="input">
v class="input">

                    <input type="text" name="age" placeholder="* Age" required="required" />
                  <input type="text" name="weight" placeholder="* Weight" required="required" />
                           <input type="text" name="bsa" placeholder="* Body Surface Area( sq m)" required="required" />
                           <input type="text" name="hypertension" placeholder="* Duration of Hypertension" required="required" />
<input type="text" name="pulse" placeholder="* Basal Pulse(b/m)" required="required" />
                           <input type="text" name="stress" placeholder="* Stress" required="required" />
                            <button class="button button1" type="submit" type = "submit">Predict My Blood Pressure </button>
         <b> &copy; Ilyas Nayle 13/09/2021</b><br>
```

```
\begin{picture}(60,0) \put(0,0){\line(0,0){100}} \put(0,0){\line(0,0){100
                                    background-repeat: no-repeat;
background-size: cover;
background-attachment: fixed;
                                    width: 20%;
padding: 10px 15px;
                             color: #e5dddd;
position: center;
     👸 арр.ру
                                                                                        × 🛮 🐔 model.py × 🛮 🗂 bp.html × 🛮 🛗 style.css ×
                                                                   background-color: #082c36;
                                                                                border: 1px solid #15c6f9;
     52
                                                                              padding: 4px;
                                                                                border-style: dotted;
                                                                              border-top-left-radius: 5px;
                                                                              text-align:center;
                                                                       text-transform: capitalize;
```

Step 3:

Creating the Web Application app.py

Step 4: Testing and Deployment of the model using command prompt to check if our app runs properly

- We open the command prompt
- Navigate to the location of the folder
- Run the file as: python3 app.py

```
Terminal: Local × + V

(venv) coder_me_ilyas@ilyasnayle:~/PycharmProjects/Week4_flask_development$ python3 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

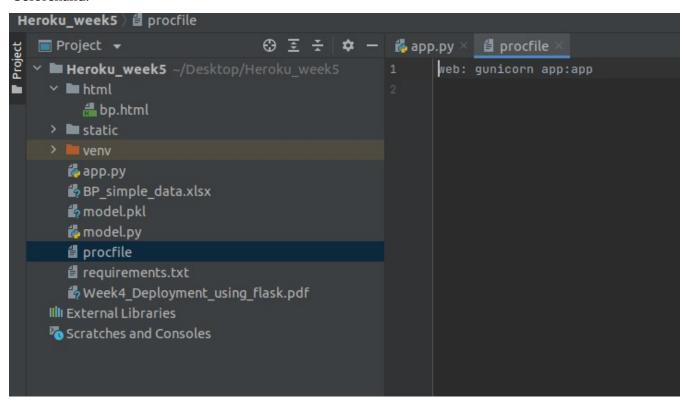
* Running on <a href="http://127.0.0.1:5000/">http://127.0.0.1:5000/</a> (Press CTRL+C to quit)

* Restarting with stat

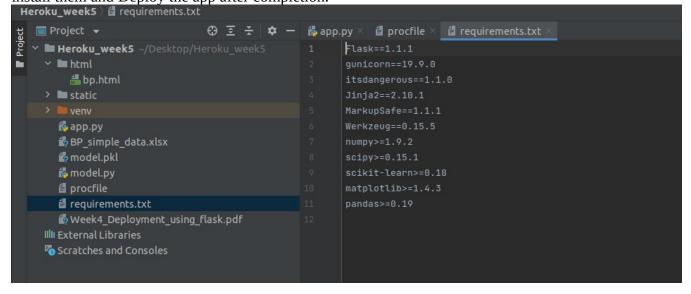
* Debugger is active!

* Debugger PIN: 483-454-315
```

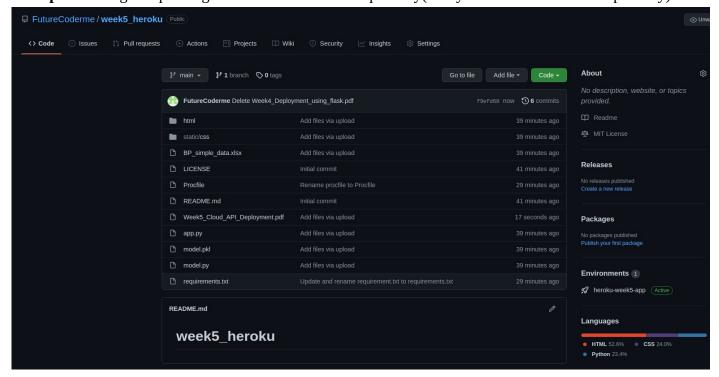
Step 5: Creating the Procfile(Without giving it any extension) which tells the heroku about the process beforehand.



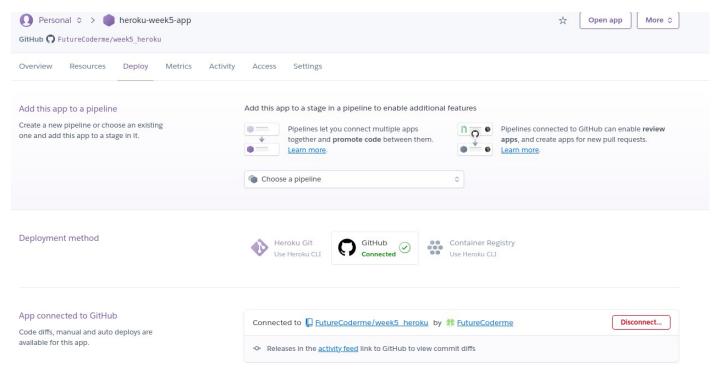
Step 6: Creating the requirements.txt file which is for letting Heroku to set the application libraries and install them and Deploy the app after completion.



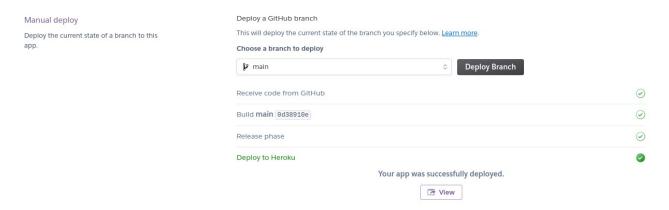
Step 7: Adding and pushing all the files in GitHub repository(in my case I created a new repository)



Step 8: Creating Heroku account and linking GitHub with the Heroku account.



Step 9: Deploying the launch.



After the successful deployment we will get the link for launching our app and the result is as below.

