This code extends the usage of PA1's app.py where a custom diet chart was created. The app.py module from PA1 is imported here and the functionalities of the same is put in use.   
The service receives the request from client in the form of a URI and performs the required operation. The coordination policy works as such that the client can not invoke the function   
'show\_weights' until 'process\_input' is invoked, this functionality os acheived using a flag value that sets itself True when invoking 'process\_input' and only when the flag value is True  
'show\_weights' operation is invoked.  
  
The client side application renders the 'index.html' form to get the user's input, which is then used to create a json data to be passed in the first operation. The three values: 'num\_of\_weights',   
'username' and 'password' are hardcoded to signify the user's username and password being tracked at the time of login/using the service and the value of 'num\_of\_weights' denotes the look-back value   
in the database to provide the tracked weights.  
  
Below here are the screenshots of testing the service:

Graphical user interface, text, application

Description automatically generated

*User input form*

*Graphical user interface, text, application

Description automatically generated*

*User’s Data*

*Graphical user interface

Description automatically generated*

*Result*

*Text

Description automatically generated*

*Client-side run trace*

*Text

Description automatically generated*

*Service side run trace*