Hodor Level 0

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1 Hodor Project Level 0 by Julien Barbier

Canonical solution using Python 3 Urllib

Jupyter notebook, comments and explanation by Alexandro de Oliveira

This notebook is intended to be a reference to how to make a http POST request. In order to run this notebook interactively, if you don't have Jupyter/IPython installed you can run a docker image with the following command:

```
In [ ]: $ docker run -d -p 8888:8888 jupyter/minimal-notebook
```

Then the next step is to open your favorite browser and point it to localhost:8888 and enjoy your Jupyter installation.

1.0.1 POST Request

In order to make our POST request in Python first we need to import the proper libraries:

```
In [1]: import urllib.request
        import urllib.parse
```

As you may noticed, when you import or assing value to variables we don't have any output form Jupyter interface.
Let's define our URL:

```
In [2]: url = "http://173.246.108.142/level0.php"
```

Now we are going to define the data to be sent in the body our POST request:

```
In [3]: values = {
            "id" : "23", # Here goes your student id that will receive the vote.
            "holdthedoor" : "submit",
        }
```

...and encode it to get proper byte string:

```
In [4]: data = urllib.parse.urlencode(values)
        data = data.encode('ascii') # data should be bytes
```

Here we are building our request with the URL and the data to be sent:

```
In [5]: req = urllib.request.Request(url, data)
```

Sending our POST request:

```
In [6]: with urllib.request.urlopen(req) as response:
            raw_response = response.read()
            html = response.readable()
```

Let's take a look at our output:

```
In [7]: raw_response
```

```
Out[7]: b'\n<div id="message">\nI voted!\n</div>\n\n\n<h1>\nHold the Door challenge
```

Not so beautiful... So, let's use a nice feature of Jupyter notebook and convert the raw response in pretty formatted HTML:

```
In [8]: from IPython.core.display import display, HTML
        display(HTML(raw_response.decode()))
```

```
<IPython.core.display.HTML object>
```

Much better, right?
**** I hope you enjoyed this short introduction to POST requests!

```
In [ ]:
```