# Python Incubator track – Flask

## Concept understanding

The goal of this exercise is to create a fully working address book. This needs to be done using Flask, REST API calls and JSON encoding.

The program needs to have the basic functionalities:

1. Each entry in the address book must contain the following attributes:
   1. Userid
   2. Name
   3. Phone number
   4. Email
2. List all elements <GET call, output in JSON>
3. List a single element identified by id <GET call, output in JSON>
4. Edit a single element identified by id <PUT call, input in JSON, output in JSON>.
   1. Must be able to edit a single attribute or multiple attributes at once.
5. Submit a new element <POST call, body in JSON>
6. Delete a single element identified by id <DELETE call>
7. Flask app listening on port 7676

In all cases, an HTTP 200 value must be returned if the given ID is found, 404 if not found and 500 if an error occurred.

Bonus tasks: create a web interface to submit a new element, as well as view all elements.

In order to submit data into the Flask app, you may use a REST API client extension for the browser you’re using:

* ARC – Advanced REST Client on Chrome
* RESTClient on Firefox

## Troubleshooting

The following piece of code is a valid python script. It executes, but contains the following problems:

* A GET request on /hello/BillyBob does not print the expected answer
* A GET request on the /authorized\_only with a authorized user does not display the expected output

How can those be fixed in the most efficient way?