

A15 Suggested Approach - Grow your APP

To minimize headaches and hours spent debugging – approach the problem proceed according to the following steps. At each step save your files and make a copy for the next step. In this way, if you mess up you can always go back to a previous step.

Start BY:

1. Decide on number of parameters and their names. The names should reflect what they are.
2. Decide on the form of the JSON you will return from the server. Whatever format you choose, it must have sufficient information for the client to report:
 - a. Invalid number format and the number entered
 - i. What does the JSON look like?
 - b. Valid number format, Invalid area code
 - i. What does the JSON look like?
 - c. Valid number format, Valid area code, the state of the area code
 - i. What does the JSON look like?

Start Coding - slowly

3. Write a short Python server program called a15test3.py that returns JSON of the form in 2a above.
4. Write HTML/JS a15test4.html that displays the elements shown above arranged how you wish. When the user presses the button, make an AJAX call to a1test3.py, and display information relating to invalid format. The Python code does nothing but return hard-coded JSON

Extend this approach for each of the items in 2. Above.

Grow Your server code:

When you have the communication between client and server working with hard-coded JSON from the server, then begin to add code to the server to:

- 1) Test for valid vs invalid phone numbers

Then, add code to check the zip codes and add state information to the JSON.

Recommend testing file reads and area code lookup outside the server.

