

- Address Validation Architecture
 - US Autocomplete API
 - Free request to the api
 - Does not validate street number
 - Returns valid street+city+state combinations
 - When consuming smartystreets api, the host header must be set to the value provided by smartystreets
 - Input fields
 - prefix - address search term
 - We currently do not start autocompleting until a street name is typed
 - suggestions - number of results to return.
 - We currently don't set this value so it is defaulted to **10** items
 - city_filter - not used
 - state_filter - not used
 - prefer - not used
 - prefer_ratio - not used
 - geolocate - prefers address suggestions in the user's city/state depending on IP address
 - true
 - geolocate_precision - causes geolocated results to bubble up by city or state
 - city
 - US Street Address API
 - Subscription plans are paid monthly
 - Any overage will not incur more charges, in this instance, next month's plan would be paid at the point the current plan's requests are all consumed
 - Subscription type can be changed month by month
 - Provides full validation of address
 - Response returns validated address along with county and zip code
 - Addresses that validate to multiple addresses will allow for selection of the correct address
 - At most an address will only require one request to validate after it is submitted and multiple addresses come back
 - Request that have no response (no address matched the result) will require more since the address will need to be corrected and validated again
- 2 APIS - smarty streets.com
 - First one is the autocomplete will suggest addresses to you for **free**
 - Does not fully verify address, it's just a lookup without validation
 - It basically will help with fat fingering
 - Won't start auto-completing until you hit space (not 100% correct)
 - Uses Geolocation - to your location ex. Snellville/Lawrenceville
 - Second One - Validation API
 - Once submitted/saved, will validate address (cost per call)
 - CFA Tax group will use
 - Two outcomes

- 1st possibility: no address found
- 2nd possibility: multiple address - North, South. Missing ..etc
- Enter City and State and UI will not let you enter County or Zip Code
- Once you hit save, multiple addresses found, you need to pick, N. or South
- Populate other data gathered by the original call. After you make a selection, it disregard the other changes and not recall the api.
- Toast Messages on OSM UI:
 - No valid address found (Red - Error)
 - Multiple addresses found (orange/yellow - warning)

The screenshot shows a web browser window with the URL `localhost:57177/9/Financial/OffsiteLocation/45`. The page title is "Offsite Sales Location" and the breadcrumb is "01171 - Dulles Town Crossing FSU". A green "Save" button is visible in the top right corner.

The main content area is a form titled "Location Information" with a dropdown arrow. The form contains the following fields:

- Status: Active (dropdown)
- Location ID: 45 (text input)
- Location Name: Demo Location (text input)
- Classification: University Cafeteria (dropdown)
- Address Line 1: 40 Rogers St, Atlanta (text input)
- Address Line 2: (empty text input)
- Address Line 3: (empty text input)
- City: Baltimore (text input)
- State: MD (text input)
- County: Baltimore City (text input)
- Zip Code: 21229 (text input)

At the bottom of the form is a section titled "Additional Information" with a dropdown arrow.

Other notes:

We have a 1 month trial with the option to extend a month.

Note from Will, I came across this prompt when ordering some coffee from Keurig, no idea which validation service they use, but this is how they prompt for a suggested address.



PLEASE VERIFY YOUR ADDRESS DETAILS

Your address has been auto corrected. To proceed, please choose one of the options below.

WE RECOMMEND:

Street Address: **2620 Grundhall Ct**
Apt. Suite, Bldg:
City: **Cumming**
State: **Georgia**
Zip: **30041-6195**

USE SUGGESTED ADDRESS

YOU ENTERED:

Street Address: **2620 Grundhall Court**
Apt. Suite, Bldg:
City: **Cumming**
State: **Georgia**
Zip: **30041**

USE ADDRESS AS ENTERED

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