‘lkup4’ stores the full list of US ZIP codes, cities, and states used in ‘validation\_shipment’ and validation\_estblishment’ modules. This lookup table is presented in the form of an array of JSON objects. The objects in the array are sorted by the ZIP code in ascending order. This is important because ‘lookup\_binary\_m’ function uses binary search method to find ZIP codes faster and more efficiently.

‘lkup4.js’ contains about 41,000 records of data. Conventional text editors like Windows Notepad would crash if used to open this file.

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable: lkup4** |  | | |
| Each JSON object has the following attributes: | | | |
| Attributes: | | *zip: sctg code*  city*: value to weight ratio lower bound*  state: value to weight ratio lower bound | |
| example | | | Lkup4 = [{"zip":"00501","city":"Holtsville","state":"NY"},{"zip":"00544","city":"Holtsville","state":"NY"},{"zip":"01001","city":"Agawam","state":"MA"}…. ] |