**Documentation of Autocorrect (Python Package)**

In this package we are using 3 dictionaries, one for Medical drugs, second for Symptoms and third for general English terms.

Function: findWord(WorList, flag)

The function we are calling is findWord with arguments List of word from ocr in decreasing probability order and a variable with guides the function to look in different types of dictionary , i.e. 0 for symptoms dictionary and 1 for medical drugs dictionary, findWord function is in error\_correction.py which in inside calling a function spell(word) in the script \_int\_.py.

Function: spell(word)

This function makes the list of all probable words of the input word and then traverse through a English essay and if the word matches a word in the essay, then it increase the count of that word and at last maximum count word is returned

Function: parse(lang\_sample)

This function takes input as Essay

This function is used by spell function for increasing and maintaining the count and in last returns set of word and their count

All the dictionaries are in the compressed file named words.bz2

Function: words\_from\_archive(filename, include\_dups=False, map\_case=False)

This function access the words.bz2 file and return the text file i.e. Medicine.txt, Symptoms.txt etc

Function: \_delete(self)

This function takes input as a word and delete an alphabet from every position and return the modified word for checking in the dictionary

Function: \_transposes(self)

This function exchanges the positon of the alphabets

Function: \_replaces(self)

This function replaces the alphabets one by one and

Function: \_insert\_(self)

This function insert the alphabets in every position

Function: \_typos(self)

This function uses functions like \_delete, \_transpose, \_replaces for plus minus of an alphabet and return the word for checking

Function: double\_typos(self)

Same as \_typos but for plus minus of two alphabets

Function: spellMed(word)

Same as spell function but uses medicine dictionary

Function: spellSymp(word)

Same as spell function but uses Symptom dictionary