**Steps to Adding a New Rule in Python Cite Checker**

1. Create the rule using <https://regex101.com/>.
2. Have python search for that rule
3. Have python print the paragraph or footnote number if the rule is found.
4. Have python print the found results.
5. Add the new rule to the list of things the software checks
6. Create the rule using <https://regex101.com/>.

Use <https://regex101.com/> to create a rule that your document can search. For example, the below searches for the word *being* that is between parenthesis if none of the characters inside the parenthesis are a ; . or another set of parentheses.

Graphical user interface, text, application

Description automatically generated

For more information on python regular expressions, go to <https://docs.python.org/3/howto/regex.html>.

1. Have python search for that rule

Add code to allow the program to “search” for your regular expression. Each search must be then set to a unique variable.

For example, the below is an example of it searching for violations of the colon rule, either three spaces after a colon, one space after a colon, or no spaces after a colon. The search created from regex is in red below.

····'''

····searching·for·BBS·2.1.2

····'''

····triplecolon·=·re.findall(r'**(\w+\:\s\s\s+\w+)**',·str)

····singlecolon·=·re.findall(r'**(\w+\:\s\w+)**',·str)

····nocolon·=·re.findall(r'**(\w+\:\w+)**',·str)

If you want this to search the text of your note or comment, you must add the search in the location with the other searches below this comment.

'''

Text checking below

'''

If you want this to search the footnotes of your note or comment, you must add the search in the location with the other searches below this comment.

'''

Footnote checking below

'''

1. Have python print the paragraph or footnote number if the rule is found.

Add any new variables you have created to the line that prints the paragraph or footnote number any of the searches have a result. The line that you must edit is in red below.

····'''

····Prinitng·paragraph·number·(to·both·text·and·word·doc)·if·something·checked·above·is·found

····'''

····if·**triplecolon**·or·**singlecolon**·or·**nocolon**·or·**extrasemi**·or·**nosemi**·or·**fedlower**·or·**fedupper**·or·**elipsespace**:

········print("\n")

········print("#######·Paragraph·No.",·Par,·"#######")

········Parheading·=·"#######·Paragraph·No.·{}·#######".format(Par)

········resultsdocument.add\_heading(Parheading,·level=1)

If you want this to search the text of your note or comment, you must add the variable to the line of code below this comment.

····'''

····Prinitng·paragraph·number·(to·both·text·and·word·doc)·if·something·checked·above·is·found

····'''

If you want this to search the text of your note or comment, you must add the variable to the line of code below this comment.

····'''

····Prinitng·footnote·number·(to·both·text·and·word·doc)·if·something·checked·above·is·found

····'''

1. Have python print the found results.

Have python print the found result and have it add the found result to the results word document. An example can be seen below.

····'''

····Printing·BBS·2.3.5·-·federal·should·only·be·capitalized·if·the·word·it·modifies·is·capital

····'''

····

····if·fedupper:······

········print("BBS·2.3.5·-·(federal·should·only·be·capitalized·if·the·word·it·modifies·is·capital)",·"\n",·"····[]",·'\n·····[]·'.join(fedupper))

········

········Words·=·"[··]·BBS·2.3.5·-·(federal·should·only·be·capitalized·if·the·word·it·modifies·is·capital)·{}".format(fedupper)··

········resultsdocument.add\_paragraph(Words)

If your search is in the text of your note or comment, you must add the code to the p in the location with the other searches below this comment.

'''

Printing section for text

'''

If you want this to search the footnotes of your note or comment, you must add the search in the location with the other searches below this comment.

'''

Printing section for footnote

'''

1. Add the new rule to the list of things the software checks

Ensure that users know what rules the software is checking for by adding the new rule to the list of rules checked. This must be done for both the printed report and the results document.

For the printed report, modify the below code accordingly. The relevant section is in red.

print('''

In order to run this step, you will need to seperate note/comment into one file with text and one file with endnotes

simply follow these steps:

1. make a copy called of your note/comment so nothing happens to your orignal

2. copy and paste your endnotes into a new document

3. advanced replace ^e with nothing in the file that contains text and footnotes to remove the endnotes

**This software currently checks for BBS 2.1.2, BBS 2.1.4, BBS 2.2.2, and BBS 2.3.5 in text and BBS 2.1.2, BBS 2.1.4, BBS 2.3.5, BBS 2.2.2, BBS 3.4, and BBS 4.1.3 in footnotes**

''')

For the document report, modify the below code accordingly. The relevant section is in red.

resultsdocument.add\_paragraph("Multiple errors of the same type in the same paragraph or footnote will be seperate by a comma.")

resultsdocument.add\_paragraph("For example, the beelow is flagging two seperate BBS 3.4 errors in the same footnote.")

resultsdocument.add\_paragraph("[ ] BBS 3.4 - (Prohibited Word \"was\") ['defining mass incarceration to mean America’s exceedingly high incarceration rates concentrated within was disadvantaged communities', 'describing new wave of progressive district was attorneys']")

resultsdocument.add\_paragraph("**This software currently checks for BBS 2.1.2, BBS 2.1.4, BBS 2.2.2, and BBS 2.3.5 in text and BBS 2.1.2, BBS 2.1.4, BBS 2.3.5, BBS 2.2.2, BBS 3.4, and BBS 4.1.3 in footnotes**")