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1 import sys
2 import re
3 from colorama import Fore, init
4
5 from colorama import Fore, init
6
7 init()
8
9 # logger = logging.getLogger("canvasapi")
10 # handler = logging.StreamHandler(sys.stdout)
11 # formatter = logging.Formatter('%(asctime)s - %(name)s - %(levelname)s - %(message)s')
12 #
13 # handler.setLevel(logging.DEBUG)
14 # handler.setFormatter(formatter)
15 # logger.addHandler(handler)
16 # logger.setLevel(logging.DEBUG)
17
18 from canvasapi import Canvas
19 API_URL = "https://chartercollege.instructure.com"
20 API_KEY = "10319~
    ribyd9ZFYxHT3YMxJbVKyQw2Q00vIi3HQg8Wwf7U79k2bDw3xLxDs
    KL9sRwthd5F"
21 # initialize a new canvas object
22 canvas = Canvas(API_URL, API_KEY)
23
24 print(Fore.LIGHTBLUE_EX +
    '*****
    *****')
25 print('*    ver. 1.3
    *')
26 print('*    This script will search a course\'s
    Assignments and Pages    *')
27 print('*    HTML for specific words and text. Please
    be careful!    *')
28 print('*    There is no undo button. Pages can be
    reverted with version *')
29 print('*    history in Canvas but assignments cannot.
    Avoid characters    *')
30 print('*    such as paren (, etc they will crash the
    program    *')
31 print('*    '+Fore.LIGHTYELLOW_EX+'ex: search for <b><
    u>Phrase</u></b>'+Fore.LIGHTBLUE_EX+

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31 '                                *')
32 print('*      '+Fore.LIGHTYELLOW_EX+'      replace with <b
    ><i>Phrase</i></b>'+Fore.LIGHTBLUE_EX+
    '                                *')
33 print(
    '*****
    *****'+Fore.RESET)
34
35 Search = True
36 while Search == True:
37     try:
38         course_id = input("Please enter the course ID
    , for example (9524) or (q): ")
39         if len(course_id) > 5:
40             course_id = input("Please an ID with less
    than 5 digits: ")
41         if course_id == 'q':
42             sys.exit()
43         course = canvas.get_course(course_id)
44         course_pages = course.get_pages()
45         course_assignments = course.get_assignments()
46
47     except ValueError:
48         print('We need a number like 9524')
49         course_id = input("Please enter the course ID
    , for example (9524) or (q): ")
50         if course_id == 'q' or course_id == str:
51             sys.exit()
52     except NameError:
53         print('That course does not exist')
54         course_id = input("Please enter a number like
    (12345) or (q): ")
55         if course_id == 'q' or course_id != type(int
    ):
56             sys.exit()
57     except TypeError:
58         course_id = input("Please enter a number like
    (01234) or (q): ")
59         if course_id == 'q' or course_id != type(int
    ):
60             sys.exit()
61         # except ResourceDoesNotExist("Not Found"):
62         #     course_id = input("Please enter a number
    like (01234) or (q): ")

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63     #         if course_id == 'q' or course_id != type(
        int):
64         #             sys.exit()
65
66         Search1 = True
67         while Search1 == True:
68
69             #####
70             # Begin of Pages Search
71             #####
72             Search_Tally_P = 0
73             Replace_Tally_P = 0
74             # Replace string needed variable in case
        results were equal to zero
75             Replace_Str = 'null'
76             Search_Str = input('Please enter a search
        string: ')
77             # Searches pages for a phrase and reports
        the matches, asks for replacement string passes that
        to next search
78             Replace_Str = input('What would you like to
        replace "' + Search_Str + '" with? ')
79             for page in course_pages:
80                 # get the html
81                 url = page.url
82                 page_item = course.get_page(url)
83                 html = page_item.body
84
85                 # creates RegEx output for result.
        Creates a list.
86                 regex1 = '.*'+Search_Str+'.*'
87                 p = re.compile(regex1)
88                 Search_Str_output = p.findall(html)
89
90                 # count returns how many times str
        occurs in a string
91                 strCount = html.count(Search_Str)
92                 Search_Tally_P = Search_Tally_P +
        strCount
93                 if strCount >= 1:
94                     print('the Page '+Fore.LIGHTBLUE_EX+
        str(page_item.title)+Fore.RESET + ' contains the
        phrase '+Fore.GREEN+str(Search_Str)+Fore.RESET+', '+
        Fore.RED+str(strCount)+Fore.RESET + ' times')

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95             print(Fore.LIGHTBLACK_EX+'Link to
Page: ' + page_item.html_url)
96             print('Found here: '+
Search_Str_output[0]+Fore.RESET)
97             #else:
98             # continue
99
100         if Search_Tally_P == 0:
101             print(Fore.LIGHTMAGENTA_EX +
'*****')
102             print('*   No matches in Pages. Doing
Nothing.   *')
103             print(
'*****' + Fore
.RESET)
104
105         elif Search_Tally_P >= 1:
106             print(Fore.LIGHTBLUE_EX+
'*****')
107             print('* We found some matches in Pages
!
'+Fore.RESET)
108             print(Fore.LIGHTBLUE_EX+'*'+Fore.RESET+
' The total matches of the phrase: '''+Fore.GREEN+str
(Search_Str)+Fore.RESET+''' is: '+Fore.
LIGHTMAGENTA_EX+str(Search_Tally_P)+Fore.
LIGHTBLUE_EX+' ')
109             print(Fore.LIGHTBLUE_EX+
'*****'+
Fore.RESET)
110             # Replace_Str = input('What would you
like to replace '''+Fore.GREEN+Search_Str+Fore.RESET
+''' with? ')
111             Exit = input('Replace these items? Do
you wish to continue? (y/n/q): ')
112             if Exit == 'y':
113                 print(Fore.LIGHTYELLOW_EX +
'*****')
114                 print('   Ok, Here we go!')
115                 print(Fore.LIGHTYELLOW_EX +
'*****'+Fore.RESET)
116             elif Exit == 'n':
117                 print('Ok')
118                 break
119             elif Exit == 'q':

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120             sys.exit()
121             #####
122             # Begin of Pages Replacement
123             #####
124             for page in course_pages:
125                 # get the html
126                 url = page.url
127                 page_item = course.get_page(url)
128                 html = page_item.body
129                 # replace items with variables
130                 htmlMod = html.replace(Search_Str,
Replace_Str)
131                 # count returns how many times str
occurs in a string
132                 strCount = html.count(Search_Str)
133                 # replaces the content
134                 page_item.edit(wiki_page={'body':
htmlMod})
135                 Replace_Tally_P = Replace_Tally_P +
strCount
136                 # print('Replacing '+Fore.GREEN+str(
Search_Str)+Fore.RESET+' with '+Fore.GREEN+str(
Replace_Str)+Fore.RESET+' on Page: '+Fore.
LIGHTBLUE_EX+str(page_item.title)+Fore.RESET+', '+
Fore.RED+str(strCount)+Fore.RESET+' times')
137                 print(Fore.GREEN+
'*****'
*****'+Fore.RESET)
138                 print(Fore.GREEN+'* '+Fore.RESET+' The
phrase "'+Fore.GREEN+Search_Str+Fore.RESET+'" has
been replaced: ' + Fore.LIGHTMAGENTA_EX+str(
Replace_Tally_P)+Fore.RESET + ' times in Pages'+Fore
.GREEN+' '+Fore.RESET)
139                 print(Fore.GREEN+
'*****'
*****'+Fore.RESET)
140                 Choice1 = input('Continue to Assignments? (y
/n/q): ')
141                 if Choice1 == 'y':
142                     print('Continuing to Assignments...')
143                 if Choice1 == 'n':
144                     break
145                 if Choice1 == 'q':
146                     sys.exit()

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147
148 #####
149 # Begin of Assignment Search
150 #####
151     Search_Tally_A = 0
152     Replace_Tally_A = 0
153     for assign in course_assignments:
154         # get the html
155         # some assignments are external links
156         with no html so we force a string here
157         html = str(assign.description)
158         # creates RegEx output for result.
159         Creates a list.
160         regex2 = '.*'+Search_Str+'.*'
161         p = re.compile(regex2)
162         Search_Str_output = p.findall(html)
163         # count returns how many times str
164         occurs in a string
165         strCount = html.count(Search_Str)
166         Search_Tally_A = Search_Tally_A +
167         strCount
168         if strCount >= 1:
169             print('the Assignment '+Fore.
170 LIGHTBLUE_EX+str(assign.name)+Fore.RESET + '
171 contains the phrase '+Fore.GREEN+str(Search_Str)+
172 Fore.RESET+', '+Fore.LIGHTMAGENTA_EX+str(strCount)+
173 Fore.RESET + ' times')
174             print(Fore.LIGHTBLACK_EX+'link to
175 Assignment: ' + assign.html_url)
176             print('Found here: ' +
177 Search_Str_output[0]+ Fore.RESET)
178         else:
179             continue
180             # wait = "*"
181             # print(wait)
182             # wait.replace('*', '')
183             # wait.replace('\n', '')
184             # print(wait)
185
186     if Search_Tally_A == 0:
187         print(Fore.LIGHTMAGENTA_EX +
188 '*****')
189         print('* No matches in Assignments.
190 Doing Nothing. *')

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179         print(
180             '*****'+
Fore.RESET)
181         break
182         elif Search_Tally_A >= 1:
183             print(Fore.GREEN+
184                 '*****')
185             print(Fore.GREEN+'We found some matches
in Assignments!'+Fore.RESET)
186             # #
187             print('The total matches of '''+Fore.GREEN+
Search_Str+Fore.RESET+'"' is: '+Fore.LIGHTMAGENTA_EX+
str(Search_Tally_A)+Fore.RESET)
188             print(Fore.GREEN+
189                 '*****'+Fore.
RESET)
190             Exit = input('Replacing '''+Search_Str+''
with '''+Replace_Str+'"', in Assignments. This is
undoable, continue? (y/n) :')
191             if Exit == 'y':
192                 print(Fore.LIGHTYELLOW_EX +
193                     '*****')
194                 print('*    Ok, Here we go!    *')
195                 print(Fore.LIGHTYELLOW_EX +
196                     '*****'+Fore.RESET)
197             else:
198                 print('Ok Goodbye!')
199                 break
200                 #####
201                 #Begin of Assignment Replacement
202                 #####
203                 for assign in course_assignments:
204                     # get the html
205                     html = str(assign.description)
206                     # replace items with variables
207                     htmlMod = html.replace(Search_Str,
208                         Replace_Str)
209                     # count returns how many times str
occurs in a string
210                     strCount = html.count(Search_Str)
211                     # replaces the content
212                     assignModHTML = (assign)
213                     assignModHTML.edit(assignment={'

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208 description': htmlMod})
209         Replace_Tally_A = Replace_Tally_A +
        strCount
210         #print('Replacing '+Fore.GREEN+str(
        Search_Str)+Fore.RESET+' with '+Fore.GREEN+str(
        Replace_Str)+Fore.RESET+' in Assignment: '+Fore.
        LIGHTBLUE_EX+str(assign.name)+Fore.RESET+', '+Fore.
        RED+str(strCount)+Fore.RESET+ ' times')
211         print(Fore.GREEN+
        '*****
        *****'+Fore.RESET)
212         print('* The phrase "'+Fore.GREEN+Search_Str
        +Fore.RESET+' " has been replaced: '+Fore.
        LIGHTMAGENTA_EX+str(Replace_Tally_A)+Fore.RESET+'
        times in Assignments *')
213         print(Fore.GREEN+
        '*****
        *****'+Fore.RESET)
214         break
215
```