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#!/usr/bin/python -u
import bd
import os
from os.path import isfile, join, splitext, basename

# this is the method to search dictionary by key
def findItem(obj, key):
    if key in obj: return obj[key]
    for k, v in obj.items():
        if isinstance(v, dict):
            item = findItem(v, key)
            if item is not None:
                return item

# this is the method to search key with given string
def search(values, searchFor):
   found = []
   for k in values:
      for v in values[k]:
         if searchFor in v.lower():
            found.append(k)
   return found

#parameters to access BD services
bds = 'https://bd-api.ncsa.illinois.edu'

# key and token from the Brown Dog API Gateway service
token = ""

# path to the folder to process
input_path = ""

# create a list of files that is not a folder
onlyfiles = [join(input_path, f) for f in os.listdir(input_path) if
isfile(join(input_path, f))]

text_store = {}

# processing the files in the given folder
for (input_file) in onlyfiles:
    filename, file_extension = splitext(basename(input_file))
    input_format = file_extension[1:]

    print 'Processing file: ' + basename(input_file)

    # do the extraction
    metadata = bd.extract(bds, input_file, token, 120)

    # process the metadata
    # find the "OCR" results and store
    for m in metadata['metadata.jsonld']:
        txt = findItem(m, 'ocr_simple')
        if not (txt is None):
            text_store[basename(input_file)] = txt

# find the keyword from the ocr results
print search(text_store, 'information')
```