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# pip install camunda-external-task-client-python3

# Source: https://github.com/yogeshrnaik/camunda-external-task-client-python3

from camunda.external_task.external_task import ExternalTask, TaskResult
from camunda.external_task.external_task_worker import ExternalTaskWorker

import pandas as pd
import os

print("External Task Worker started.")

# configuration for the Client
default_config = {
    "maxTasks": 1,
    "lockDuration": 10000,
    "asyncResponseTimeout": 5000,
    "retries": 3,
    "retryTimeout": 5000,
    "sleepSeconds": 30
}

def handle_task(task: ExternalTask) -> TaskResult:
    # add your business logic here
    # get the process variable 'amount'
    project_name = task.get_variable("Projektbezeichnung")

    if project_name in ["Test", "DQM"]:
        print("\n Project Name was already used. An error occured.")
        return task.failure(error_message="Duplikat: Projektbezeichnung", error_details="failed task
details",
                            max_retries=3, retry_timeout=5000)
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    path = "input_data/"
    files = os.listdir(path)


    # check file extension (.xlsx), name, number of files
    for file in files:
        if len(files) > 3:
            print("Too many files in the folder! Max. is 3.")#
            return task.failure(error_message="task failed", error_details="failed task details",
                    max_retries=3, retry_timeout=5000)

        if file.split(".")[-1] != "xlsx":
            print("Wrong file type! Must be xlsx.")
            return task.failure(error_message="task failed", error_details="failed task details",
                    max_retries=3, retry_timeout=5000)

        if file.split(".")[0] == "search_word" or file.split(".")[0] == "check_list" or file.split(".")[0] ==
"links":
            continue

        else:
            print("Wrong file names! Must be search_word & links (and check_list as an optional file)")
            return task.failure(error_message="task failed", error_details="failed task details",
                    max_retries=3, retry_timeout=5000)


    dc = False

    if "check_list.xlsx" in files:
        dc = True
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    else:
        dc = False



    sw = pd.read_excel(path + "search_word.xlsx")
    lk = pd.read_excel(path + "links.xlsx")

    # Variables for DMN
    n_of_urls = lk.shape[0] # number of urls/links
    n_of_kws_sw = sw.shape[0] # number of keywords (sw)
    #n_of_kws_cl = # number of keywords (cl)
    names_of_topics = sw["topic"].unique().tolist() # (unique) names of topics



    print("\n Task completed.")
    print("Keyword-Anzahl = {} | Website-Anzahl = {} | Zwei Keyword-Listen =
{}".format(str(n_of_kws_sw), str(n_of_urls), str(dc)))
    return task.complete({"Projektbezeichnung": str(project_name), "Double Checking": bool(dc),
                          "Website-Anzahl": int(n_of_urls), "Keyword-Anzahl": int(n_of_kws_sw)})

ExternalTaskWorker(worker_id="1", config=default_config).subscribe("dqm-test", handle_task)
```