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from src.settings import CWD, DATA DIR, TEST DIR
from src.settings import REGISTRY INPUT DIR, REGISTRY OUTPUT DIR, SUPPLEMENTAL INPUT DIR, SUPPLEMENTAL OUTPUT DIR
def get data dir path():
    Builds path to aircraft registry data directory
    :return: path to aircraft registry data directory
    path = os.path.join(CWD, DATA DIR)
    return path
def get test dir path():
    Builds path to aircraft registry test directory
    :return: path to aircrat registry test directory
    path = os.path.join(CWD, TEST DIR)
    return path
def get registry dir path(is test=False):
    Determines which aircraft registry directory serves as the root for registry-related paths given the session context
    :param (bool) is test: if 'True' the session is in a testing-context
    :return: root directory for registry-related paths
    if not is test:
       path = get data dir path()
       path = get test dir path()
    return path
def get registry inputdir path(is test=False):
    Builds path to input registry data or test directory
    :param (bool) is test: if 'True' the session is in a testing-context
    :return: path to input registry data or test directory
    path = os.path.join(get registry dir path(is test), REGISTRY INPUT DIR)
    return path
def get_registry_outputdir_path(is_test=False):
    Builds path to output registry data or test directory
    :param (bool) is test: if 'True' the session is in a testing-context
    :return: path to output registry data or test directory
    path = os.path.join(get_registry_dir_path(is_test), REGISTRY OUTPUT DIR)
    return path
def get_supplemental_inputdir_path(is_test=False):
    Builds path to input supplemental data or test directory
    :param (bool) is test: if 'True' the session is in a testing-context
    return: path to input supplemental data or test directory
    path = os.path.join(get_registry_dir_path(is_test), SUPPLEMENTAL_INPUT_DIR)
    return path
def get supplemental outputdir path(is test=False):
    Builds path to output supplemental data or test directory
    :param (bool) is test: if 'True' the session is in a testing-context
    :return: path to output supplemental data or test directory
    path = os.path.join(get registry dir path(is test), SUPPLEMENTAL OUTPUT DIR)
    return path
def make dir(path):
    Initializes new directory if it doesn't exist
    :param (str) path: path of directory to initialize
    :return: effect - creates directory specified by 'path' argument
    Path (path) .mkdir (exist ok=True)
def get registry codes():
    Builds list of registry-codes for remote registry data sources whose ETL components have been implemented
    :return: list of uppercased registry-codes for implemented remote registry data sources
    registry codes = []
    for child in os.listdir(os.path.join(CWD, "registries")):
        if not child.endswith(".py") and child != " pycache ":
            registry codes.append(child.upper())
    return registry codes
def init_registry_dirs(is_test=False):
    Creates all input/output directories within the parent data or test directory, and all input/output sub-directories
    for each remote registry source
    :param (bool) is test: if 'True' the session is in a testing-context
    :return: effect - creates [DATA DIR|TEST DIR]/[REGISTRY INPUT DIR]/[registry code] directory for each remote source;
        effect - creates [DATA_DIR|TEST_DIR]/[REGISTRY_OUTPUT_DIR]/[registry_code] directory for each remote source
    registry input path = get registry inputdir path(is test)
    registry output path = get registry outputdir path(is test)
    # initialize parent input/output registry data or test directory
    make dir(registry input path)
    make_dir(registry_output_path)
    for registry code in get registry codes():
        # initialize input/output registry data or test sub-directories
        make_dir(os.path.join(registry_input_path, registry_code.lower()))
       make dir(os.path.join(registry output path, registry code.lower()))
    # initialize parent input/output supplemental data or registry directory
    make dir(get supplemental inputdir path(is test))
    make dir(get supplemental outputdir path(is test))
def unzip(path):
    Extracts zipped file into a new directory with the same name
    :param (str) path: path to zipped file to be extracted
    :return: effect - creates new directory adjacent to 'path' argument
    with ZipFile(path, "r") as file:
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file.extractall(path[:-4])

import os

from pathlib import Path
from zipfile import ZipFile