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| 252233-FITOSMART: PLATAFORMA TECNOLÓGICA DE FITOMONITORIZACIÓN DE CULTIVO HIDROPÓNICO UTILIZANDO CÓMPUTO SENSIBLE AL CONTEXTO Y TÉCNICAS DE INTELIGENCIA ARTIFICIAL  (Tercera Etapa) | | Programa de Estímulos a la Innovación  2018 |
| **Relación de Archivos**  **Módulo de Aprendizaje del CBR** |  | |

Relación de Archivos

El módulo *CBR* está compuesto por los elementos que a continuación se describen. Estos conjuntos de archivos permiten una comunicación estable y segura para la captura y muestra de las variables de los sensores requeridos en el Fitotrón.

**Fitocsc.py**

#!/usr/bin/env python

from tkinter import \*  
import tkMessageBox  
import Tkinter as tk  
import re  
from datetime import datetime as dtime  
from datetime import timedelta  
from threading import Thread  
from time import sleep

##si habilito estas siguientes opciones no controlo bien la picamera:  
import sys

sys.path.append('/home/pi/Desktop/fitotron\_code/mav')  
sys.path.append('/home/pi/Desktop/fitotron\_code/firebase')  
sys.path.append('/home/pi/Desktop/fitotron\_code/send-data')

from FitoGeolocation import \*  
from FitoWebData import \*  
from FitoWeather import \*  
from FitoConfig import \*  
from FitoFirebase import \*  
from FitoMavGetVars import \*  
from FitoSendData import \*  
from dataForSend import \*

##deshabilite estas opciones para manejar bien la picamera:  
#from FitoSendData import \*  
#from FitoMai import \*  
#from Fito\_Act import \*

import os  
#download and install pillow:  
# http://www.lfd.uci.edu/~gohlke/pythonlibs/#pillow  
from PIL import Image, ImageTk  
import json

**FitoMavGui.py**

from tkinter import \*  
from datetime import datetime as dtime  
import tkMessageBox  
import Tkinter as tk  
import sys  
sys.path.append('/home/pi/Desktop/fitotron\_code/csc')  
sys.path.append('/home/pi/Desktop/fitotron\_code/send-data')  
sys.path.append('/home/pi/Desktop/fitotron\_code/firebase')  
from FitoConfig import \*  
from FitoGeolocation import \*  
from FitoWebData import \*  
from FitoMavGetVars import \*  
from FitoSendData import \*  
from FitoFirebase import \*  
from PIL import Image, ImageTk  
import json

**FitoMav.py**

from FitoMavGetVars import \*

**FitoMavGetVars.py**

from FitoGetMav import \*

**main.py**

#!/usr/bin/env python2

## -\*- coding: utf-8 -\*-

import os, sys

try:

import pickle as pickle

except ImportError:

import pickle

try:

import readline, atexit

history\_filename = "cbr\_command\_history"

def save\_history(path=history\_filename):

import readline

readline.write\_history\_file(path)

if os.path.exists(history\_filename):

readline.read\_history\_file(history\_filename)

atexit.register(save\_history)

except ImportError:

pass

case\_filename = "cases.pickle"

def main():

from matcher import Matcher

from interface import Interface

import attribute\_names

**case.py**

## -\*- coding: utf-8 -\*-

\_\_all\_\_ = ['Case']

from attributes import BaseAttribute

import attribute\_names

**attributes.py**

## -\*- coding: utf-8 -\*-

from abc import ABCMeta, abstractmethod, abstractproperty

from tree import Tree

from util import key\_name

**place.py**

## -\*- coding: utf-8 -\*-

import os, atexit

try:

import pickle as pickle

except ImportError:

import pickle

try:

from geopy import geocoders, distance

except ImportError:

raise RuntimeError("Could not find geopy library. See http://code.google.com/p/geopy/.")

try:

geocoder = geocoders.Google(domain="maps.google.co.uk")

except AttributeError:

geocoder = geocoders.GoogleV3(domain="maps.google.co.uk")

location\_cache\_filename = "location\_cache.pickle"

def save\_location\_cache(filename=location\_cache\_filename):

import place

with open(filename, "wb") as fp:

pickle.dump(place.location\_cache, fp, -1)

atexit.register(save\_location\_cache)

location\_cache = {}

**interface.py**

## -\*- coding: utf-8 -\*-

\_\_all\_\_ = ['Interface']

import re, inspect, sys, cmd

from console import Console

from case import Case

from table\_printer import print\_table

from util import key\_name

from matcher import AdaptationError

import attribute\_names