<!--

"Code Blue"

PA GOVERNOR'S STEM COMPETITION

BSHS STEM Team Leader - Matt Horger

Map layout using coordinates sent to server

-->

<!DOCTYPE html>

<html>

<head>

<style>

#map {

width: 1800px;

height: 1200px;

}

</style>

<script src="https://maps.googleapis.com/maps/api/js"></script>

<script>

function initialize() {

var mapCanvas = document.getElementById('map');

var mapOptions = {

center: new google.maps.LatLng(40.0080927,-75.6866626,21),

zoom: 16,

mapTypeId: google.maps.MapTypeId.ROADMAP

}

var map = new google.maps.Map(mapCanvas, mapOptions)

var Shanahan = {lat: 40.0080927, lng: -75.6866626};

var CCIU = {lat: 40.006729, lng: -75.679002};

var Server = {lat: 40.0000685, lng: -75.7863166};

var marker = new google.maps.Marker({

map: map,

position: Shanahan,

title: 'Bishop Shanahan'

});

var marker = new google.maps.Marker({

map: map,

position: CCIU,

title: 'Tracker 1'

});

var marker = new google.maps.Marker({

map: map,

position: Server,

title: 'Data Server (Horger Household)'

});

}

google.maps.event.addDomListener(window, 'load', initialize);

</script>

</head>

<body>

<div id="map"></div>

</body>

</html>

<?xml version="1.0" encoding="UTF-8"?>

<markers>

<dtml-in GmaplocsPkSelectLastAdded>

<marker lat="<dtml-var lat>" lng="<dtml-var lon>"/>

</dtml-in>

</markers>

#"Code Blue"

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#Setup for the server and GPS

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

#!/usr/bin/env python

import sys

import socket

import MySQLdb

TCP\_IP = '50.201.14.74'

TCP\_PORT = 32000

BUFFER\_SIZE = 40

# ClearDB. Deletes the entire tracking table

def ClearDB(curs,d ):

curs.execute ("""

INSERT INTO gmaptracker (lat, lon)

VALUES (0.0,0.0)""")

d.commit()

# Connect to the mySQL Database

def tServer():

try:

db = MySQLdb.connect (host = "localhost",

user = "root",

passwd = "dutchboi03",

db = "gmap" )

except MySQLdb.Error, e:

print "Error %d: %s" %(e.args[0], e.args[1])

sys.exit(1);

cursor = db.cursor()

# Start with a fresh tracking table

ClearDB(cursor,db)

# Set up listening Socket

try:

s = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

s.setsockopt(socket.SOL\_SOCKET, socket.SO\_REUSEADDR, 1)

s.bind((TCP\_IP, TCP\_PORT))

print "Listening...."

s.listen(1)

conn, addr = s.accept()

print 'Accepted connection from address:', addr

except socket.error:

if s:

s.close()

print "Could not open socket: "

cursor.close()

conn.close()

db.close()

sys.exit(1)

try:

while 1:

data = conn.recv(BUFFER\_SIZE)

if not data: break

str1,str2 = data.split("Long: ")

str1 = str1.split("Lat: ")[1]

latitude = float(str1)

longitude = float(str2)

cursor.execute ("""

INSERT INTO gmaptracker (lat, lon)

VALUES (%s,%s)""", (latitude,longitude))

db.commit()

except KeyboardInterrupt:

ClearDB(cursor,db);

cursor.close()

conn.close()

db.close()

if \_\_name\_\_ == '\_\_main\_\_':

tServer()