Plotting location of object detected in qgis using python script

task-2

Saail #1 October 13, 2022, 2:01pm

Plotting location of object detected in qgis using python script.

QGIS has its own python console which you can use to automate the task.
Open QGIS using terminal by typing `qgis` command in terminal. Opening QGIS direcly will not include ros python modules.

> - Note: You have followed proper instructions while installing ROS, i.e. sourced ros directory in .bashrc

For opening python console in QGIS

- Click on plugins
- Select Python console
  You will see a python console.
- Select show editor option.
  You will see a python editor. So the scripts for analysis and automating is written in this editor.
  You can save and run the script. Output will be seen on the left side of the editor on a python shell.

You can also write a command to check in python interpreter below python shell,
Check by importing rospy module.

```
import rospy
```

There are many QGIS python api's available for doing analysis. We will be only using the python script for plotting the location in the map canvas over a map.

Following script plots the marker in the defined latitude and longitude.

```
canvas = iface.mapCanvas()

lon = 131.2
lat = -12.5

pnt = QgsPointXY(lon, lat)

m = QgsVertexMarker(canvas)
m.setCenter(pnt)
m.setColor(QColor('Black'))
m.setIconType(QgsVertexMarker.ICON_CIRCLE)
```

```
m.setIconSize(12)
m.setPenWidth(1)
m.setFillColor(QColor(0, 200, 0))

#run line below to remove:
#canvas.scene().removeItem(m)
```

After running the script you will se a circular marker on the qgis canvas window.

You can read the location published via ros using rospy module on a particular topic and plot it using the above script.

Task 2D: Finding geolocation of the suspecious objects using drone

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Smit closed #2 October 18, 2022, 8:41am

Smit unlisted #3 October 18, 2022, 8:42am