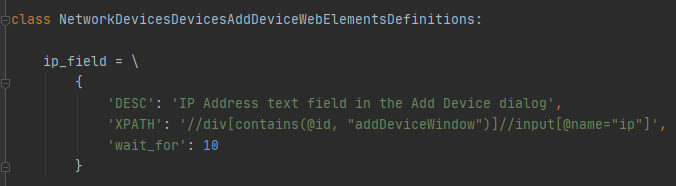
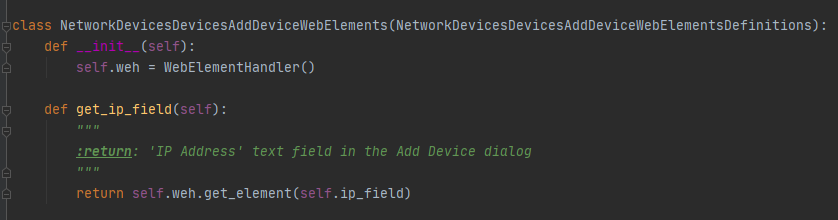
XIQSE Automation Framework Design

# Three main components

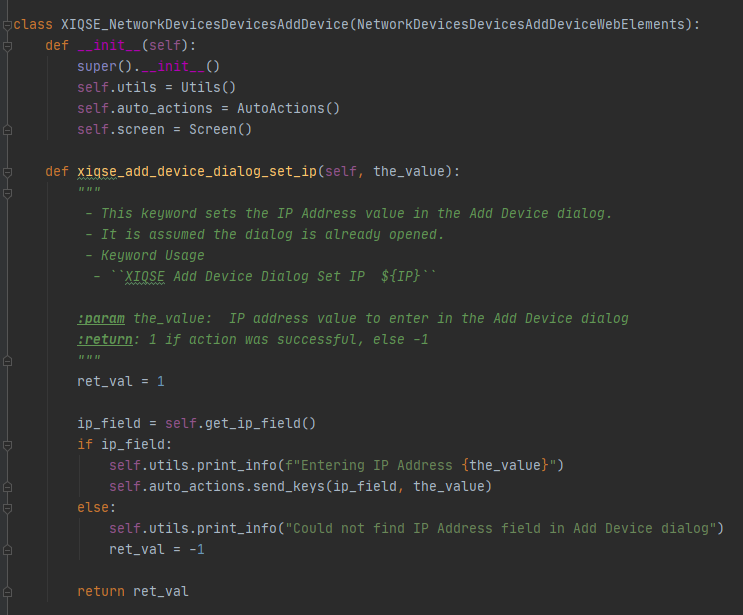
## Defs – these are the definitions for specific UI elements (e.g., XPATH, CSS)

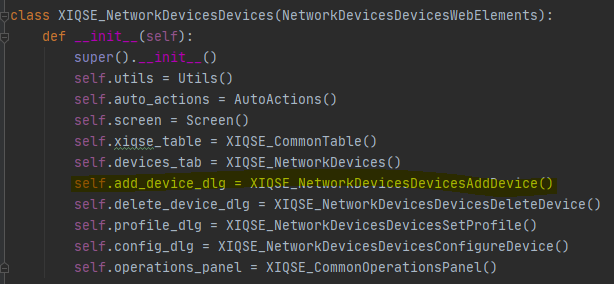


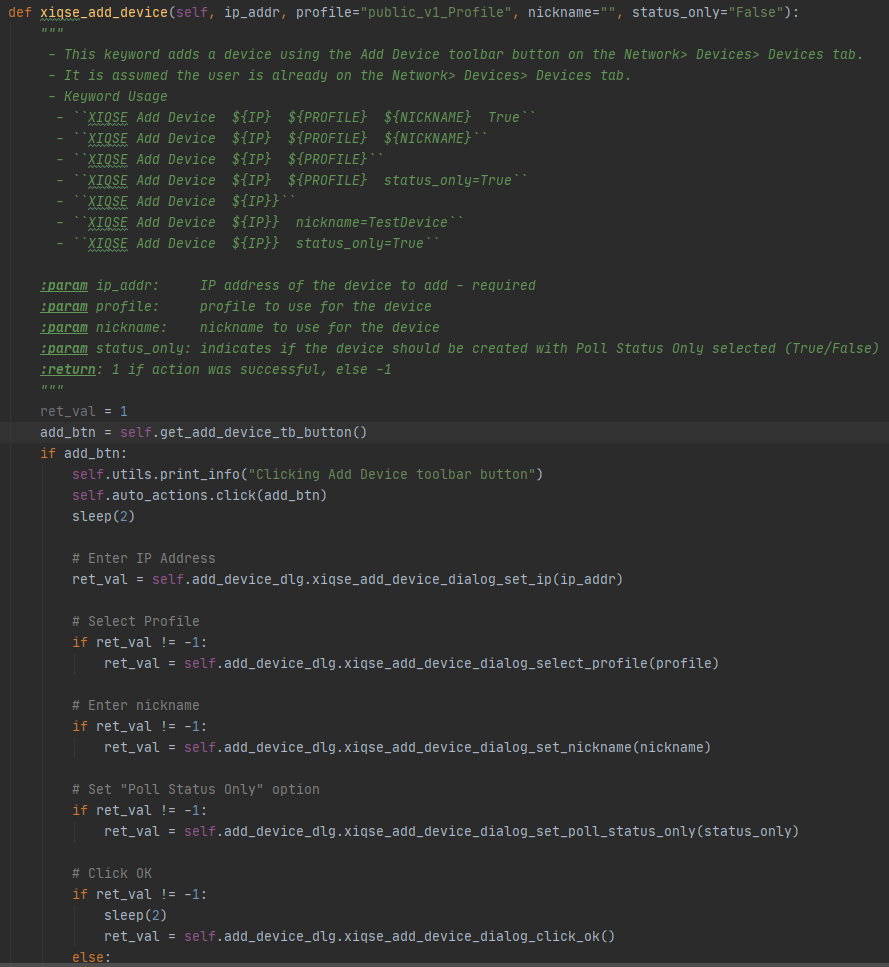
## Elements – these are the “getters” for the UI element definitions



## Flows – these are the keywords which act upon the UI elements







# Design

## Create a separate set of classes (defs/elements/flows) for **each view**

## Place each class in a folder which shows where it lives within the UI, based on tab/view structure

## Dialog classes should simply consist of keywords for setting each individual field and clicking each button – the main view class which brings up that dialog should have the larger keyword(s) for populating the dialog as a whole and clicking the OK button

## Generic example:

* + Tab B is a sub tab of Tab A
  + Tab B contains two toolbar buttons (T1 and T2) and a table
  + Toolbar button T1 brings up a dialog, say T1Action
  + Toolbar button T2 just performs an action without bringing up another view/dialog
  + We want to automate Tab B - clicking the two toolbar buttons, populating the T1Action dialog, and interacting with the table

This would require two sets of files (defs/elements/flows): one set of files for Tab B and another set of files for the T1Action dialog:

* TabA
  + TabB
    - defs
      * TabATabBWebElementsDefinitions
      * TabATabBT1ActionWebElementsDefinitions
    - elements
      * TabATabBWebElements
      * TabATabBT1ActionWebElements
    - flows
      * XIQSE\_TabATabB
      * XIQSE\_TabATabBT1Action

In this example, clicking the T1 or T2 toolbar buttons, or interacting with the table, would require keywords within XIQSE\_TabATabB:

* xiqse\_tabb\_click\_t1()
* xiqse\_tabb\_click\_t2()
* xiqse\_tabb\_select\_row()

The keywords within XIQSE\_TabATabBT1Action would simply set the individual fields of the dialog and click the action buttons.

* xiqse\_t1action\_dialog\_set\_field\_1()
* xiqse\_t1action\_dialog\_set\_field\_2()
* xiqse\_t1action\_dialog\_set\_field\_3()
* xiqse\_t1action\_dialog\_click\_ok()
* xiqse\_t1action\_dialog\_click\_cancel()

XIQSE\_TabATabB would create a variable for XIQSE\_TabATabBT1Action in its \_\_init\_\_() function and use it to call the keywords to set the fields of the dialog and click OK when the T1 toolbar button is clicked.

* in init:

self.t1action\_dlg = XIQSE\_TabATabBT1Action()

* in keywords:

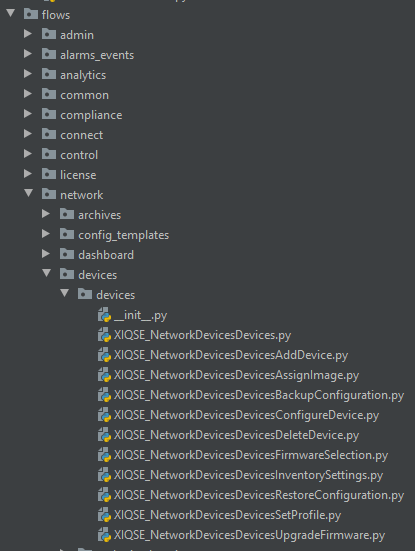
self.t1action\_dlg.xiqse\_t1action\_dialog\_set\_field\_1()

self.t1action\_dlg.xiqse\_t1action\_dialog\_click\_ok()

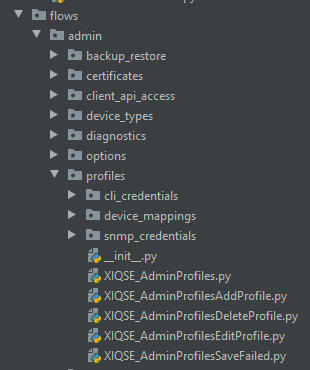
**This keeps each view separated from the others, allowing smaller, more manageable files.**

## References to specific code examples

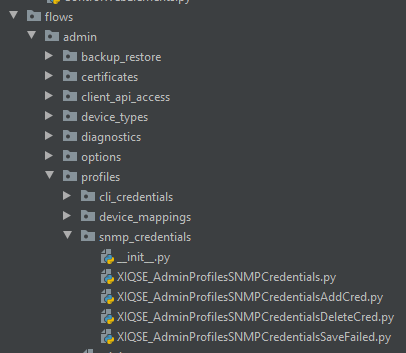
### Network>Devices>Devices - Add Device, Set Profile, Configure Devices, etc.



### Admin> Profiles - Add Profile, Delete Profile, Edit Profile, etc.



### Admin> Profiles> SNMP Credentials – Add Cred, Delete Cred, etc.



## **Remember**: if a new view is opened, it should have a new class; even if it is a new dialog opened from an existing dialog, just **create a new class for every view**