

Automation Testing Scripts

Working Procedures

1. Automation scripts are saved under CAPS, CVS or RVS based on the functionality under testing.

```
>  CAPS  
>  CVS  
>  RVS
```

2. Before starting to write a test script, a JIRA task should be created under [TWX-2813](#). Make sure the new task created has **ConsistsOf** relationships to TWX-2813.

- **Naming convention for Tasks:** Title of Task is named following <Functional Area> - <Major Dashboard Name>, for eg: CAPS - AndOn Department Test script, CVS - DMS Test Script
- **Description** of Task mentions a brief about the test steps and their validation criteria.
- **Attachment:** An excel document is attached with details on test steps.

Code

Framework: unittest is an automation testing framework inspired by jUnit and enables to write test code with object-oriented approach. More documentation [here](#).

1. **Python Imports:** Below is a list of import modules needed for folder provisioning and screenshots.

Python

```
from selenium import webdriver  
from selenium.webdriver.edge.options import Options  
from pytest_html_reporter import attach  
from selenium.webdriver.common.by import By  
from time import sleep  
from pyshadow.main import Shadow  
import unittest  
import os
```

2. **setUp():** an instance of driver is initialized and passed as instruction to all tests included in a test case.

Python

```
def setUp(self):  
    global driver  
    self.driver = webdriver.Edge(options=options)  
    self.driver.maximize_window()
```

3. **Edge Browser Options:** Selenium Python uses *Options()* to specify Microsoft capabilities.

Note: All test scripts simulate test cases in headless mode of browser.

This is implemented as below:

Python

```
options = Options()  
options.add_argument("--headless")
```

4. **Folder Provisioning:** As mentioned in [Intro](#), all screenshots are placed under TestImages folder.

This is achieved as shown below.

Python

```
def checkIfDirExists(dirPath):  
    return os.path.exists(dirPath)  
  
global testDirPath  
testDirPath = "./CVS_Automation_Test_Results/TestImages"  
testpath = testDirPath + "/IChart"  
  
if checkIfDirExists(testpath):  
    pass  
else:  
    os.mkdir(testpath)  
  
testDirPath1 = "./CVS_Automation_Test_Results/TestImages/IChart/"
```