……4.02.2023……..

data oddania projektu

STUDIA PODYPLOMOWE „Tester oprogramowania”

Wyższa Szkoła Bankowa w Warszawie

MINI PROJEKT – AUTOMATYZACJA TESTÓW DLA APLIKACJI MOBILNEJ

Cel projektu: Automatyzacja przypadku testowego / przypadków testowych dla aplikacji mobilnej android lub ios

Sprawdził:

mgr inż. Mateusz Brzeziński

Opracowała:

Anna Świeżawska

Nazwa testowanej aplikacji: Android_Demo_App.apk „KWADemo”

I. Przypadek testowy / Przypadki Testowe

ID:001.

Tytuł: Poprawne logowanie admina do aplikacji

Środowisko:
System operacyjny komputera: Windows 10
Android Studio: 2021.1.1. Patch2
Testy z wykorzystaniem emulatora – Google Pixel 4 XL
Wersja system operacyjnego mobilnego: Android 12.0

Java	Pycharm	Python	Android studio	Appium
17.0.6	2022.3.2 (Community Edition)	3.10.9	11.0.15+0-b2043.56-8887301 amd64	1.22.2

Warunek wstępny: Uruchomiona aplikacja. Użytkownik nie jest zalogowany.

Kroki:
1. Open log in menu (otwórz menu z logowaniem i kliknij w log in przycik)
2. Enter valid email (wprowadź poprawny email)
3. Enter password (wprowadź hasło)
4. Click on login button (kliknij w login przycisk)
5. Enter Admin (wpisz imię admina)
6. Click submit button (kliknij w zatwierdź przycisk)
7. Check if User is logged (sprawdź czy użytkownik jest zalogowany)

Oczekiwany rezultat:
Użytkownik zostaje poprawnie zalogowany.

ID:002

Tytuł: Błędne logowanie admina do aplikacji

Środowisko:
System operacyjny komputera: Windows 10
Android Studio: 2021.1.1. Patch2
Testy z wykorzystaniem emulatora – Google Pixel 4 XL
Wersja system operacyjnego mobilnego: Android 12.0

Java	Pycharm	Python	Android studio	Appium
17.0.6	2022.3.2 (Community Edition)	3.10.9	17.0.5+1-b653.25 amd64	1.22.2

Warunek wstępny: Uruchomiona aplikacja. Użytkownik nie jest zalogowany.

Kroki:

1. Open log in menu (otwórz menu z logowaniem i kliknij w log in przycik)
2. Enter invalid email (wprowadź niepoprawny email)
3. Enter password (wprowadź hasło)
4. Click on login button (kliknij w login przycisk)
5. Check if „Wrong Credentials" is displayed on the screen (sprawdź czy tekst "Wrong Credentials" jest wyświetlony na ekranie)
6. Check if "username: admin@gmail" is displayed on the screen (sprawdź czy tekst "username: admin@gmail" jest wyświetlony na ekranie)
7. Check if "password: admin 123" is displayed on the screen (sprawdź czy tekst "password: admin 123" jest wyświetlony na ekranie)

Oczekiwany rezultat:
Użytkownik nie zostaje zalogowany.

ID:003

Tytuł: Sprawdzenie poprawności działania pola „Enter value"

Środowisko:
System operacyjny komputera: Windows 10
Android Studio: 2021.1.1. Patch2
Testy z wykorzystaniem emulatora – Google Pixel 4 XL
Wersja system operacyjnego mobilnego: Android 12.0

Java	Pycharm	Python	Android studio	Appium
17.0.6	2022.3.2 (Community Edition)	3.10.9	17.0.5+1-b653.25 amd64	1.22.2

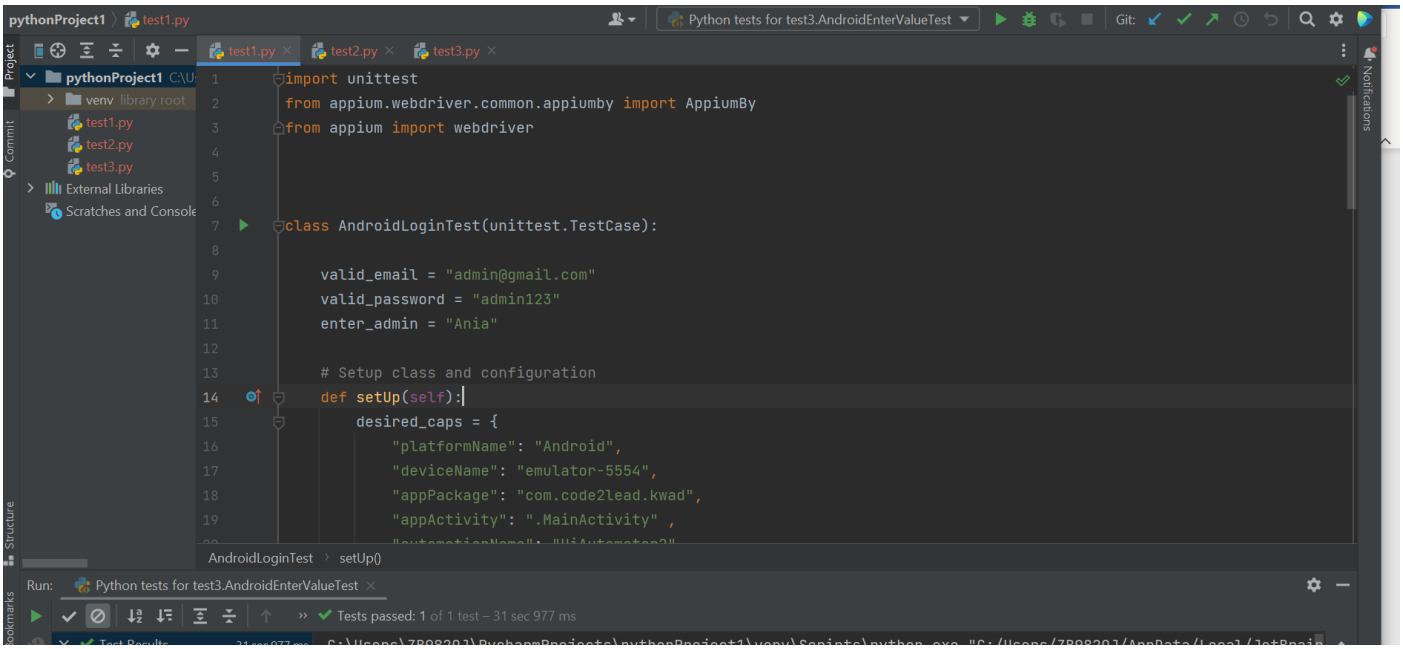
Warunek wstępny: Uruchomiona aplikacja.

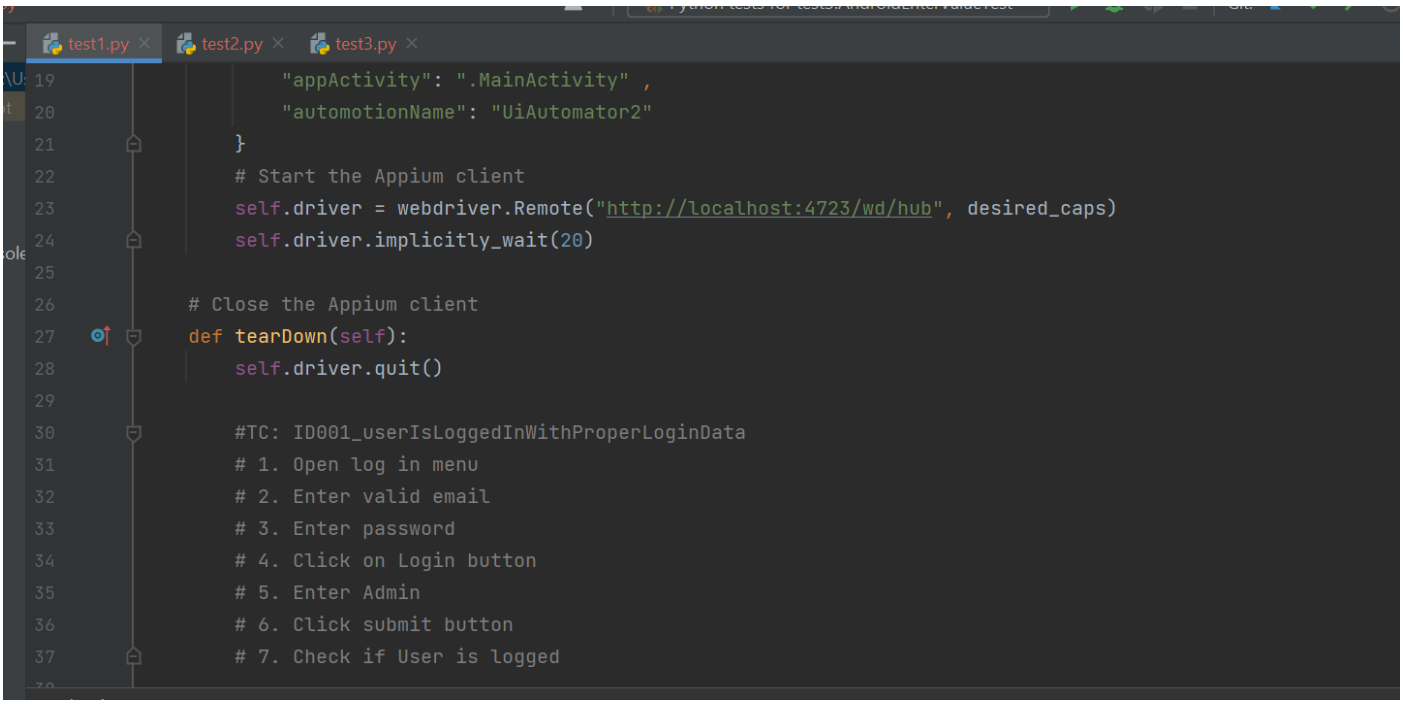
Kroki:
1. On my page: check if my page is loaded (na mojej stronie: sprawdź czy strona się zalogowała)
2. Click on "Enter some value" field (kliknij w pole "Enter some value")
3. Enter "hello world!" in the "Enter some value" field (napisz "hello world" w polu "Enter some value"
4. Click "Submit" button (kliknij w"Submit" przycisk)
5. Check if values "hello world" are displayed (sprawdź czy wprowadzone wartości są wyświetlone na stronie „hello world!")

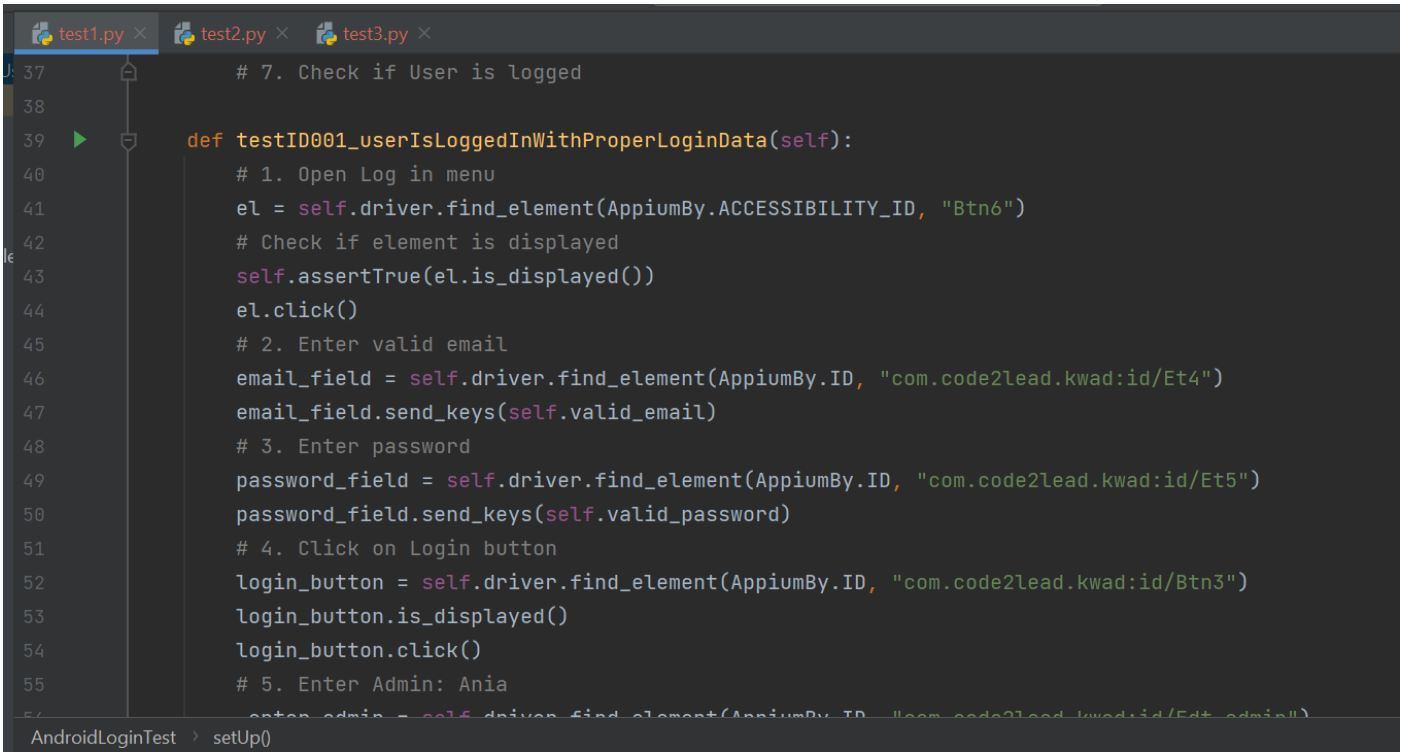
Oczekiwany rezultat:
Pole działa poprawnie. Po wprowadzeniu wartości do pola, są one wyświetlane na stronie ekranu.

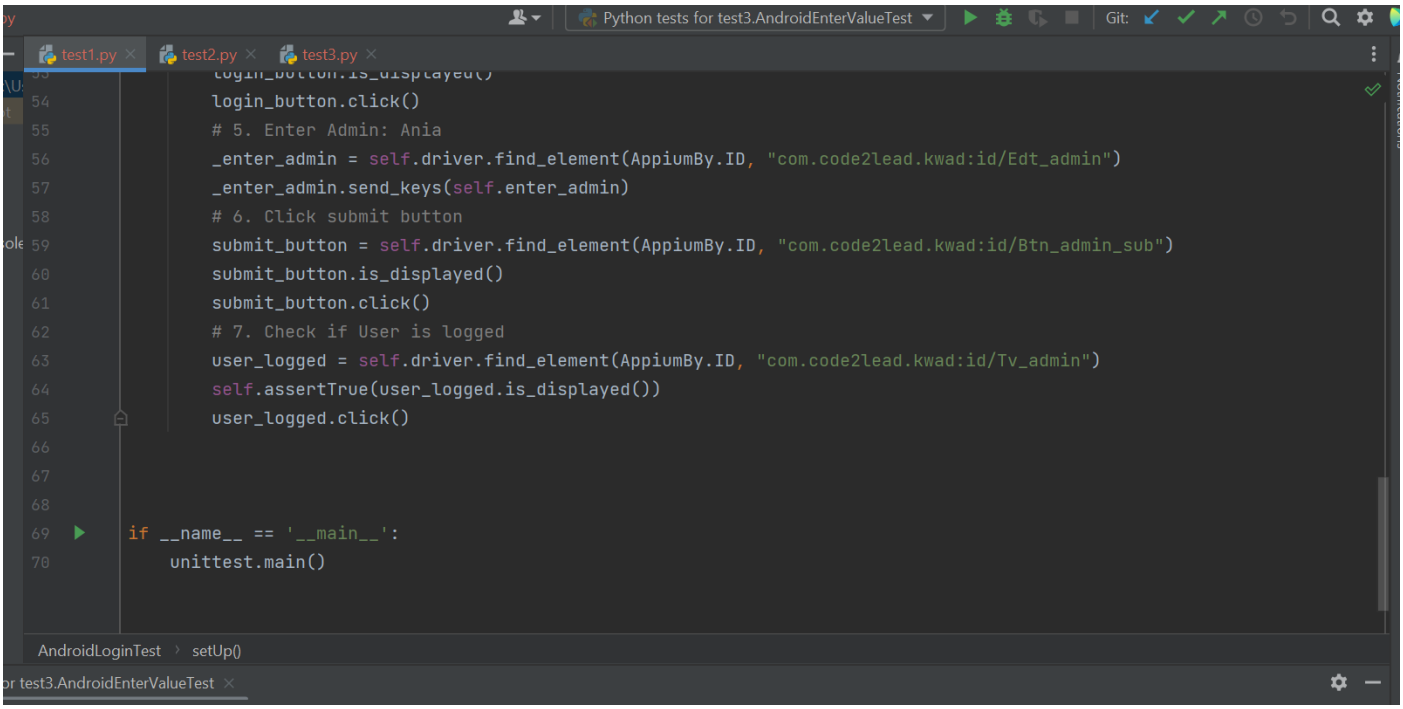
II. Automatyzacja Przypadków Testowych

ID001

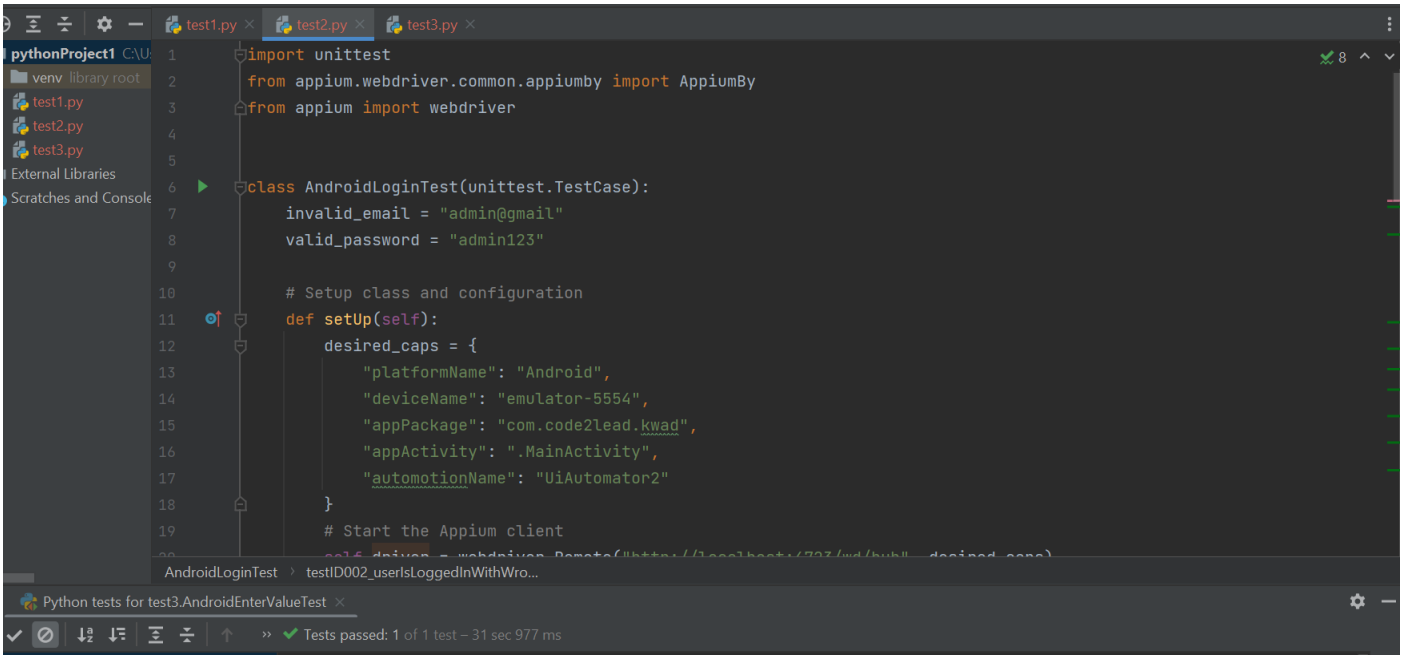

pythonProject1
test1.py
Python tests for test3.AndroidEnterValueTest
Git:
test1.py
test2.py
test3.py
pythonProject1
venv library root
test1.py
test2.py
test3.py
External Libraries
Scratches and Consoles
import unittest
from appium.webdriver.common.appiumby import AppiumBy
from appium import webdriver
class AndroidLoginTest(unittest.TestCase):
valid_email = "admin@gmail.com"
valid_password = "admin123"
enter_admin = "Ania"
# Setup class and configuration
def setUp(self):
desired_caps = {
"platformName": "Android",
"deviceName": "emulator-5554",
"appPackage": "com.code2lead.kwad",
"appActivity": ".MainActivity" ,
AndroidLoginTest
setUp()
Run:
Python tests for test3.AndroidEnterValueTest
Tests passed: 1 of 1 test – 31 sec 977 ms

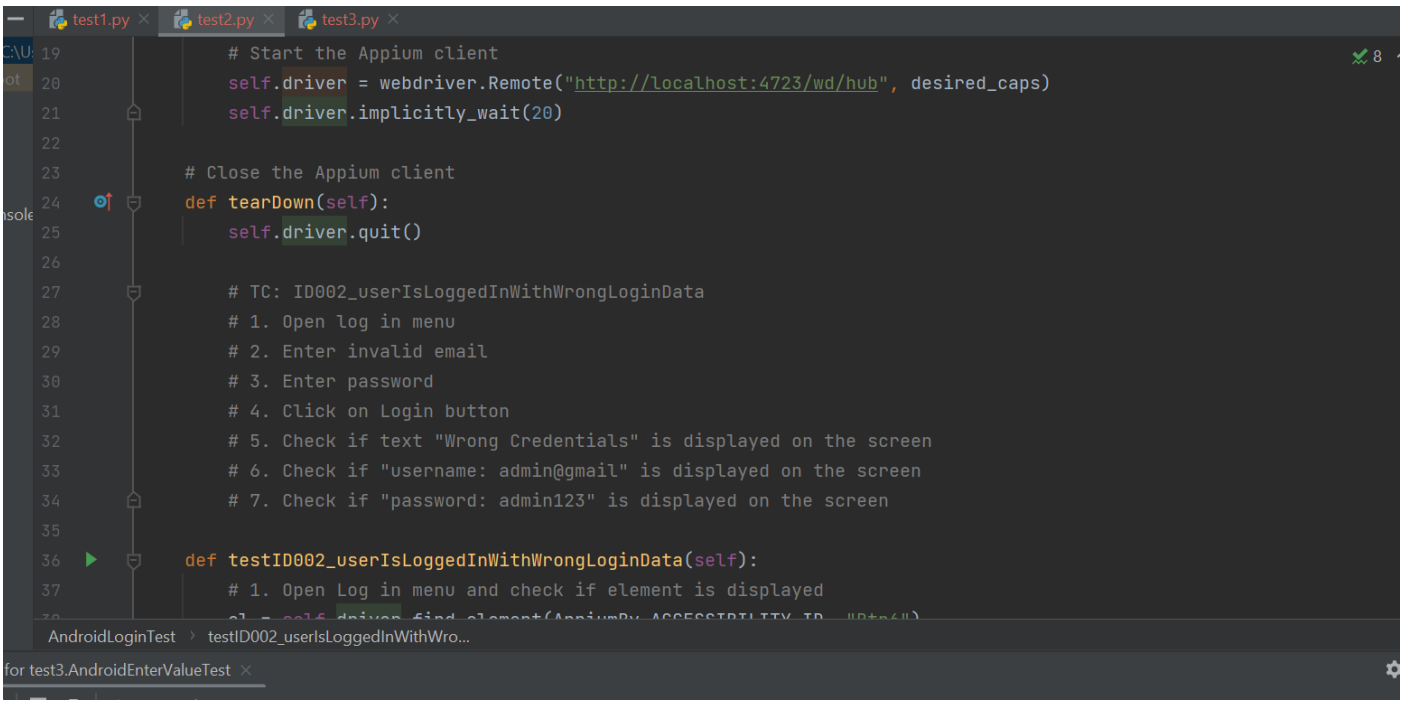

test1.py
test2.py
test3.py
"appActivity": ".MainActivity" ,
"automotionName": "UiAutomator2"
}
# Start the Appium client
self.driver = webdriver.Remote("http://localhost:4723/wd/hub", desired_caps)
self.driver.implicitly_wait(20)
# Close the Appium client
def tearDown(self):
self.driver.quit()
#TC: ID001_userIsLoggedInWithProperLoginData
1. Open log in menu
2. Enter valid email
3. Enter password
4. Click on Login button
5. Enter Admin
6. Click submit button
7. Check if User is logged

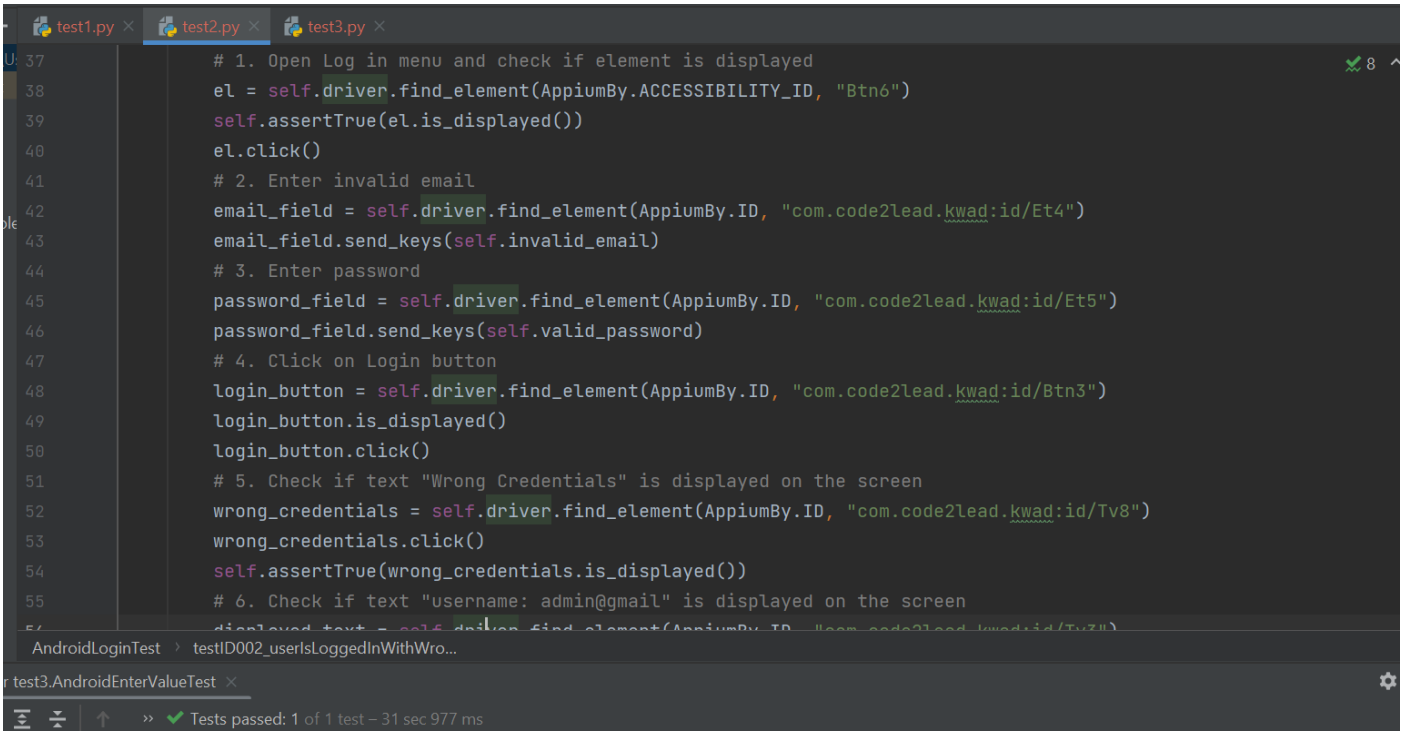

test1.py
test2.py
test3.py
# 7. Check if User is logged
def testID001_userIsLoggedInWithProperLoginData(self):
# 1. Open Log in menu
el = self.driver.find_element(AppiumBy.ACCESSIBILITY_ID, "Btn6")
# Check if element is displayed
self.assertTrue(el.is_displayed())
el.click()
# 2. Enter valid email
email_field = self.driver.find_element(AppiumBy.ID, "com.code2lead.kwad:id/Et4")
email_field.send_keys(self.valid_email)
# 3. Enter password
password_field = self.driver.find_element(AppiumBy.ID, "com.code2lead.kwad:id/Et5")
password_field.send_keys(self.valid_password)
# 4. Click on Login button
login_button = self.driver.find_element(AppiumBy.ID, "com.code2lead.kwad:id/Btn3")
login_button.is_displayed()
login_button.click()
# 5. Enter Admin: Ania
AndroidLoginTest
setUp()

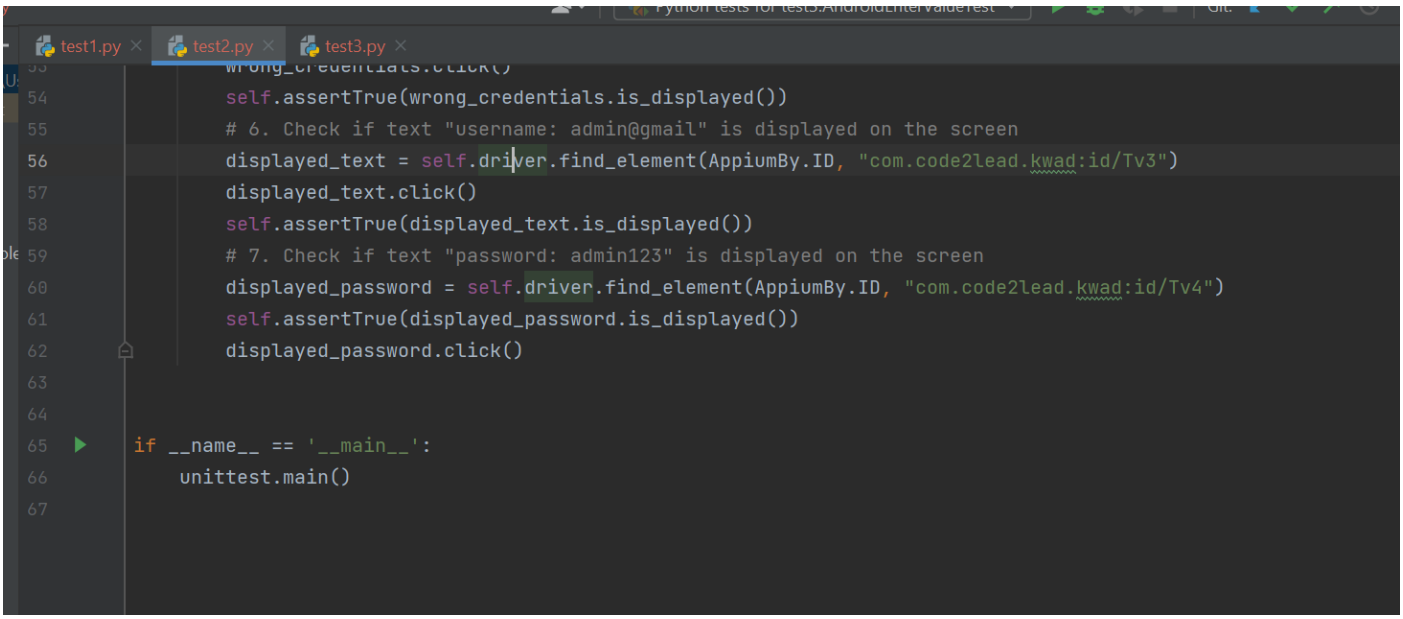

Python tests for test3.AndroidEnterValueTest
Git:
test1.py
test2.py
test3.py
login_button.click()
# 5. Enter Admin: Ania
_enter_admin = self.driver.find_element(AppiumBy.ID, "com.code2lead.kwad:id/Edt_admin")
_enter_admin.send_keys(self.enter_admin)
# 6. Click submit button
submit_button = self.driver.find_element(AppiumBy.ID, "com.code2lead.kwad:id/Btn_admin_sub")
submit_button.is_displayed()
submit_button.click()
# 7. Check if User is logged
user_logged = self.driver.find_element(AppiumBy.ID, "com.code2lead.kwad:id/Tv_admin")
self.assertTrue(user_logged.is_displayed())
user_logged.click()
if __name__ == '__main__':
unittest.main()
AndroidLoginTest
setUp()
test3.AndroidEnterValueTest

ID002

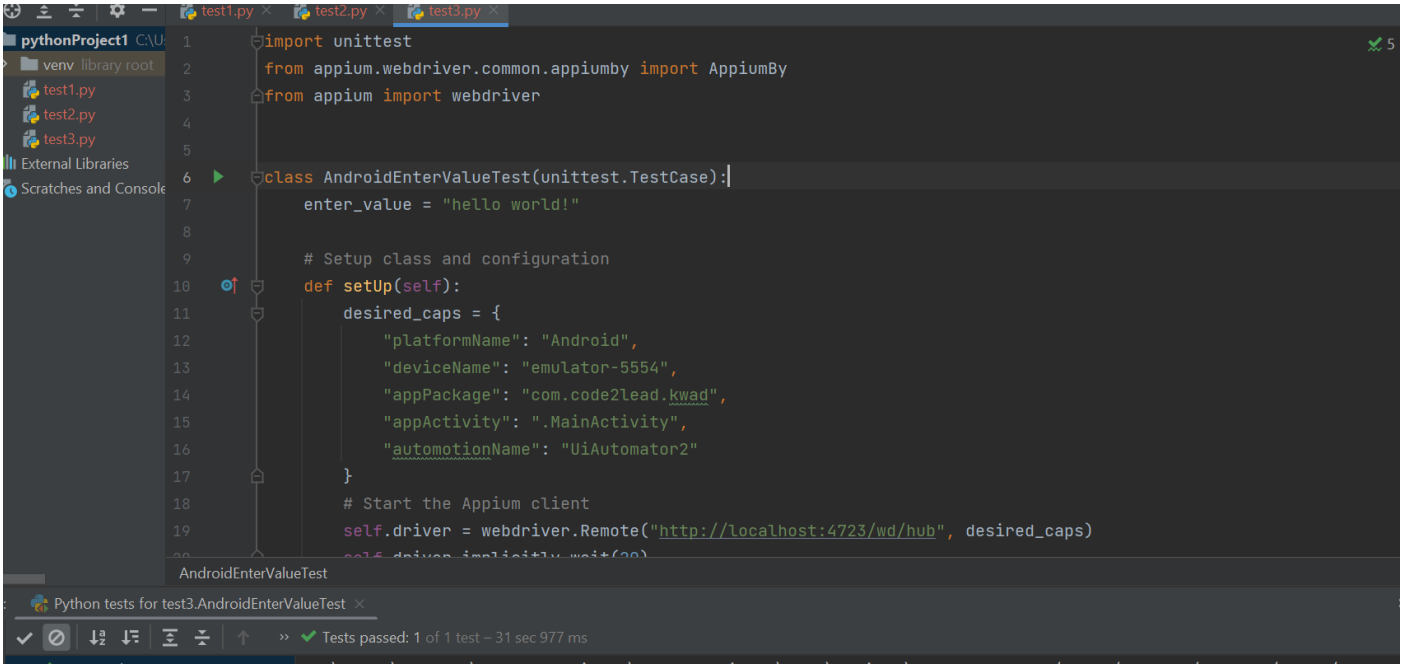

test1.py
test2.py
test3.py
pythonProject1
venv library root
test1.py
test2.py
test3.py
External Libraries
Scratches and Console
import unittest
from appium.webdriver.common.appiumby import AppiumBy
from appium import webdriver
class AndroidLoginTest(unittest.TestCase):
invalid_email = "admin@gmail"
valid_password = "admin123"
# Setup class and configuration
def setUp(self):
desired_caps = {
"platformName": "Android",
"deviceName": "emulator-5554",
"appPackage": "com.code2lead.kwad",
"appActivity": ".MainActivity",
"automotionName": "UiAutomator2"
}
# Start the Appium client
AndroidLoginTest
testID002_userIsLoggedInWithWro...
Python tests for test3.AndroidEnterValueTest
Tests passed: 1 of 1 test – 31 sec 977 ms

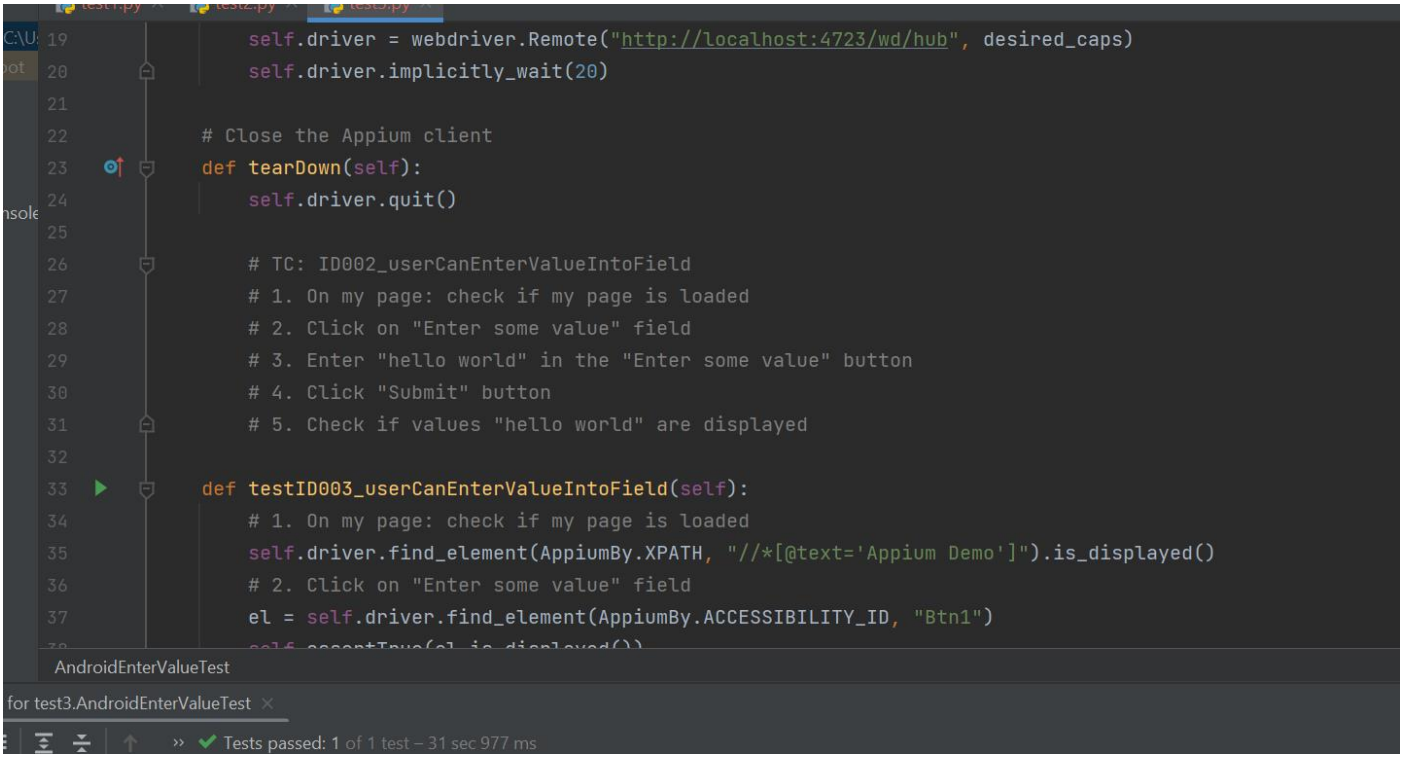

test1.py
test2.py
test3.py
# Start the Appium client
self.driver = webdriver.Remote("http://localhost:4723/wd/hub", desired_caps)
self.driver.implicitly_wait(20)
# Close the Appium client
def tearDown(self):
self.driver.quit()
# TC: ID002_userIsLoggedInWithWrongLoginData
# 1. Open log in menu
# 2. Enter invalid email
# 3. Enter password
# 4. Click on Login button
# 5. Check if text "Wrong Credentials" is displayed on the screen
# 6. Check if "username: admin@gmail" is displayed on the screen
# 7. Check if "password: admin123" is displayed on the screen
def testID002_userIsLoggedInWithWrongLoginData(self):
# 1. Open Log in menu and check if element is displayed
AndroidLoginTest
testID002_userIsLoggedInWithWro...

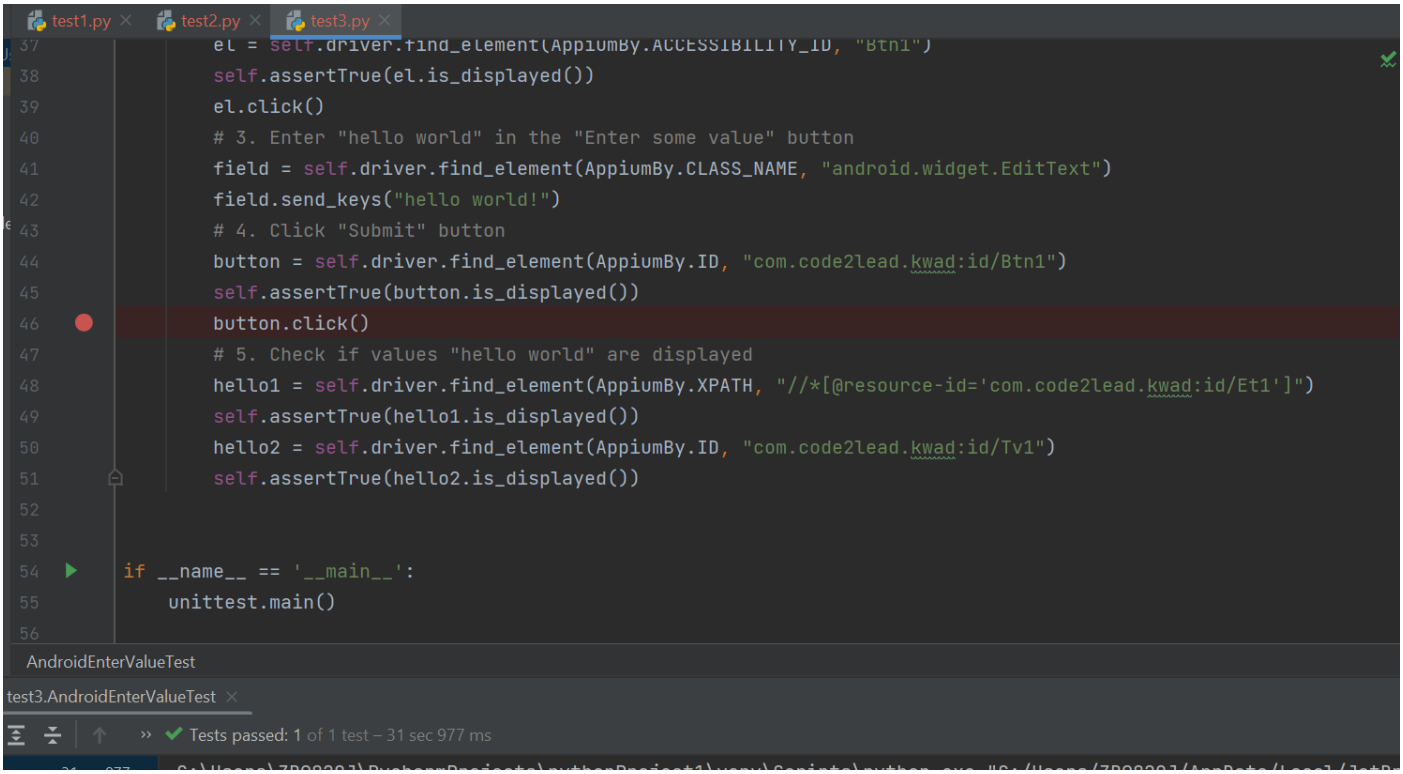

test1.py
test2.py
test3.py
# 1. Open Log in menu and check if element is displayed
el = self.driver.find_element(AppiumBy.ACCESSIBILITY_ID, "Btn6")
self.assertTrue(el.is_displayed())
el.click()
# 2. Enter invalid email
email_field = self.driver.find_element(AppiumBy.ID, "com.code2lead.kwad:id/Et4")
email_field.send_keys(self.invalid_email)
# 3. Enter password
password_field = self.driver.find_element(AppiumBy.ID, "com.code2lead.kwad:id/Et5")
password_field.send_keys(self.valid_password)
# 4. Click on Login button
login_button = self.driver.find_element(AppiumBy.ID, "com.code2lead.kwad:id/Btn3")
login_button.is_displayed()
login_button.click()
# 5. Check if text "Wrong Credentials" is displayed on the screen
wrong_credentials = self.driver.find_element(AppiumBy.ID, "com.code2lead.kwad:id/Tv8")
wrong_credentials.click()
self.assertTrue(wrong_credentials.is_displayed())
# 6. Check if text "username: admin@gmail" is displayed on the screen
AndroidLoginTest
testID002_userIsLoggedInWithWro...
test3.AndroidEnterValueTest
Tests passed: 1 of 1 test – 31 sec 977 ms


test1.py
test2.py
test3.py
self.assertTrue(wrong_credentials.is_displayed())
# 6. Check if text "username: admin@gmail" is displayed on the screen
displayed_text = self.driver.find_element(AppiumBy.ID, "com.code2lead.kwad:id/Tv3")
displayed_text.click()
self.assertTrue(displayed_text.is_displayed())
# 7. Check if text "password: admin123" is displayed on the screen
displayed_password = self.driver.find_element(AppiumBy.ID, "com.code2lead.kwad:id/Tv4")
self.assertTrue(displayed_password.is_displayed())
displayed_password.click()
if __name__ == '__main__':
unittest.main()

ID003


test1.py
test2.py
test3.py
pythonProject1
venv library root
test1.py
test2.py
test3.py
External Libraries
Scratches and Console
import unittest
from appium.webdriver.common.appiumby import AppiumBy
from appium import webdriver
class AndroidEnterValueTest(unittest.TestCase):
enter_value = "hello world!"
# Setup class and configuration
def setUp(self):
desired_caps = {
"platformName": "Android",
"deviceName": "emulator-5554",
"appPackage": "com.code2lead.kwad",
"appActivity": ".MainActivity",
"automotionName": "UiAutomator2"
}
# Start the Appium client
self.driver = webdriver.Remote("http://localhost:4723/wd/hub", desired_caps)
AndroidEnterValueTest
Python tests for test3.AndroidEnterValueTest
Tests passed: 1 of 1 test – 31 sec 977 ms


self.driver = webdriver.Remote("http://localhost:4723/wd/hub", desired_caps)
self.driver.implicitly_wait(20)
# Close the Appium client
def tearDown(self):
self.driver.quit()
# TC: ID002_userCanEnterValueIntoField
# 1. On my page: check if my page is loaded
# 2. Click on "Enter some value" field
# 3. Enter "hello world" in the "Enter some value" button
# 4. Click "Submit" button
# 5. Check if values "hello world" are displayed
def testID003_userCanEnterValueIntoField(self):
# 1. On my page: check if my page is loaded
self.driver.find_element(AppiumBy.XPATH, "//*[@text='Appium Demo']").is_displayed()
# 2. Click on "Enter some value" field
el = self.driver.find_element(AppiumBy.ACCESSIBILITY_ID, "Btn1")
AndroidEnterValueTest
for test3.AndroidEnterValueTest
Tests passed: 1 of 1 test – 31 sec 977 ms


test1.py
test2.py
test3.py
el = self.driver.find_element(AppiumBy.ACCESSIBILITY_ID, "Btn1")
self.assertTrue(el.is_displayed())
el.click()
# 3. Enter "hello world" in the "Enter some value" button
field = self.driver.find_element(AppiumBy.CLASS_NAME, "android.widget.EditText")
field.send_keys("hello world!")
# 4. Click "Submit" button
button = self.driver.find_element(AppiumBy.ID, "com.code2lead.kwad:id/Btn1")
self.assertTrue(button.is_displayed())
button.click()
# 5. Check if values "hello world" are displayed
hello1 = self.driver.find_element(AppiumBy.XPATH, "//*[@resource-id='com.code2lead.kwad:id/Et1']")
self.assertTrue(hello1.is_displayed())
hello2 = self.driver.find_element(AppiumBy.ID, "com.code2lead.kwad:id/Tv1")
self.assertTrue(hello2.is_displayed())
if __name__ == '__main__':
unittest.main()
AndroidEnterValueTest
test3.AndroidEnterValueTest
Tests passed: 1 of 1 test – 31 sec 977 ms