**Automation Testing Selenium with Python**

**Project Structure:-**

\*\* Pages \*\*

Home\_page.py Signup\_page.py Login\_page.py Product\_page.py Cart\_page.py Checkout\_page.py

\*\*Tests\*\*

test\_signup.py test\_login.py

\*\*Test \_product\_browsing.py

test\_cart.py test\_checkout.py test\_logout.py

\*\* Reports\*\*

Report.html

1. **Test Case Signup Tests**

import pytest

from selenium import webdriver

from selenium.webdriver.common.by import By

from selenium.webdriver.chrome.service import Service

from selenium.webdriver.chrome.options import options

def test\_signup\_valid(driver):

driver.find\_element(By.ID, "signin2").click()

driver.find\_element(By.ID, "sign-username").send\_keys("Demo")

driver.find\_element(By.ID, "sign-password").send\_keys("Pass123")

driver.find\_element(By.CSS\_SELECTOR, ".btn-primary").click()

def test\_signup\_invalid(driver):

driver.find\_element(By.ID, "signin2").click()

driver.find\_element(By.ID, "sign-username").send\_keys("")

driver.find\_element(By.ID, "sign-password").send\_keys("")

driver.find\_element(By.CSS\_SELECTOR, ".btn-primary").click()

**2 *.Test Cases:- Login***

from selenium import webdriver

from selenium.webdriver.chrome.service import Service

from selenium.webdriver.chrome.options import Options

def driver():

chrome\_options = Options()

chrome\_options.add\_argument("--headless")

service = (Service= service (executable\_path=”E:\Downloads\/chromedriver.exe”))

driver = webdriver.Chrome(service=service, options=chrome\_options)

driver.get("https://www.demoblaze.com/")

yield driver

driver.quit()

def test\_login\_valid(driver):

driver.find\_element(By.ID, "login2").click()

driver.find\_element(By.ID, "loginusername").send\_keys("validUser")

driver.find\_element(By.ID, "loginpassword").send\_keys("validPass")

driver.find\_element(By.CSS\_SELECTOR, ".btn-primary").click()

def test\_login\_invalid(driver):

driver.find\_element(By.ID, "login2").click()

driver.find\_element(By.ID, "loginusername").send\_keys("invalidUser”) driver.find\_element(By.ID, "loginpassword").send\_keys("invalidPass") driver.find\_element(By.CSS\_SELECTOR, ".btn-primary").click()

1. ***Test Cases Add product to cart***

def test\_add\_product\_to\_cart(driver):

driver.find\_element(By.LINK\_TEXT, "Phones").click()

driver.find\_element(By.CSS\_SELECTOR, ".next").click()

driver.find\_element(By.CSS\_SELECTOR, ".card").click()

driver.find\_element(By.CSS\_SELECTOR, ".btn-success").click()

def test\_checkout\_empty\_cart(driver):

driver.find\_element(By.LINK\_TEXT, "Cart").click()

driver.find\_element(By.CSS\_SELECTOR, ".btn-success").click()

4. ***Test Product Browsing***

def test\_product\_display(driver):

# Check if products are displayed on the homepage

assert len(driver.find\_elements(By.CSS\_SELECTOR, ".card")) > 0

def test\_category\_navigation(driver):

driver.find\_element(By.LINK\_TEXT, "Phones").click()

assert "Phones" in driver.title

5. ***Test Case Checkout***

def test\_checkout\_valid(driver):

driver.find\_element(By.LINK\_TEXT, "Cart").click()

driver.find\_element(By.CSS\_SELECTOR, ".btn-success").click()

def test\_checkout\_no\_items(driver):

driver.find\_element(By.LINK\_TEXT, "Cart").click()

driver.find\_element(By.CSS\_SELECTOR, ".btn-success").click()

6. ***Test Cases logout***

def test\_logout(driver):

driver.find\_element(By.ID, "login2").click()

driver.find\_element(By.ID, "loginusername").send\_keys("validUser")

driver.find\_element(By.ID, "loginpassword").send\_keys("validPass")

driver.find\_element(By.CSS\_SELECTOR, ".btn-primary").click()

driver.find\_element(By.ID, "logout2").click()