EX.NO.: 05

DATE: 16.07.2025

SELENIUM FOR E-COMMERCE PLATFORM

AIM

To automate the following end-to-end test on the <u>Automation Exercise Website</u> using Selenium WebDriver:

- 1. Login with valid credentials.
- 2. Navigate to the Products page.
- 3. Add a product to the cart.
- 4. Proceed to checkout and simulate a payment.
- 5. Download the invoice.
- 6. Logout from the application.

ALGORITHM

- 1. Start browser session using Selenium WebDriver.
- 2. Navigate to the home page of https://automationexercise.com.
- 3. Login using provided credentials.
- 4. Navigate to Products via link or XPath fallback.
- 5. Add the first product on the page to the cart.
- 6. View the cart and validate the item is present.
- 7. Proceed to checkout, fill out order message, and place order.
- 8. Simulate payment with dummy card details.
- 9. Download invoice.
- 10. Logout and close the browser.

CODE AND OUTPUT

```
from selenium.webdriver.edge.service import Service as EdgeService
from selenium.webdriver.edge.options import Options
from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC
import time

download_dir = r"D:/TARU/V th year/Software Testing lab"

options = Options()
options.add_experimental_option("prefs", {
    "download.default_directory": download_dir,
    "download.default_directory": download_dir,
    "download.directory_upgrade": True,
    "safebrowsing.enabled": True
})

edge_driver_path = r"D:/TARU/V th year/Software Testing
lab/edgedriver_win64/msedgedriver.exe"
service = EdgeService(edge_driver_path)
driver = webdriver.Edge(service=service, options=options)

driver.maximize_window()
```

```
driver.get("https://automationexercise.com")
wait = WebDriverWait(driver, 10)
driver.find element(By.LINK TEXT, "Signup / Login").click()
wait.until(EC.presence of element located((By.NAME, "email")))
driver.find element(By.NAME, "email").send keys("tarunika.test@gmail.com")
driver.find element(By.NAME, "password").send keys("tarunika.test")
driver.find element(By.XPATH, "//button[text()='Login']").click()
try:
    wait.until(EC.presence of element located((By.LINK TEXT, "Logout")))
    print("V Login successful!")
except:
    print("X Login failed. Please check credentials or site.")
    driver.quit()
    exit()
    products link = wait.until(EC.element to be clickable((By.PARTIAL LINK TEXT,
"Product")))
    products link.click()
   print("V Navigated to Products")
    print("X 'Products' link not found. Trying XPath fallback...")
    try:
        fallback = wait.until(EC.element to be clickable((By.XPATH,
"//a[@href='/products']")))
       fallback.click()
       print("V Navigated to Products using fallback XPath")
        print("X Failed to locate Products link. Exiting.")
       driver.quit()
       exit()
time.sleep(2)
driver.execute script("window.scrollTo(0, 600)")
driver.find element(By.XPATH, "(//a[@class='btn btn-default add-to-cart'])[1]").click()
print("\checkmark Add to Cart clicked")
   time.sleep(1)
    view cart = WebDriverWait(driver, 5).until(
        EC.element to be clickable((By.XPATH, "//a[contains(text(), 'View Cart')]"))
    view cart.click()
    print("V Product added to cart and navigated to cart page")
```

```
print("X 'View Cart' button not found. Navigating manually to Cart page...")
        driver.get("https://automationexercise.com/view cart")
        wait.until(EC.presence of element located((By.LINK TEXT, "Proceed To
Checkout")))
       print("V Navigated to Cart manually via URL")
        print("X Failed to load Cart page manually. Exiting.")
       driver.quit()
       exit()
   driver.find element(By.LINK TEXT, "Proceed To Checkout").click()
    wait.until(EC.presence of element located((By.NAME, "message")))
    driver.find element(By.NAME, "message").send keys("Please deliver soon.")
    driver.find element(By.XPATH, "//a[text()='Place Order']").click()
    print("X Checkout failed. Please check site layout.")
    driver.quit()
   exit()
driver.find element(By.NAME, "name on card").send keys("Test User")
driver.find element(By.NAME, "card number").send keys("4111111111111111")
driver.find_element(By.NAME, "cvc").send_keys("123")
driver.find element(By.NAME, "expiry month").send keys("12")
driver.find element(By.NAME, "expiry year").send keys("2026")
driver.find element(By.ID, "submit").click()
print("🔽 Payment simulated")
# --- DOWNLOAD INVOICE ---
   download btn = wait.until(EC.element to be clickable((By.LINK TEXT, "Download
Invoice")))
   download btn.click()
    print(f" Invoice download triggered. It will download to:\n{download dir}")
    time.sleep(2)
except:
    print("X Failed to download invoice")
driver.find element(By.LINK TEXT, "Logout").click()
print("V Logged out")
driver.quit()
```

✓ Login successful!	100
▼ Navigated to Products	*
▼ Add to Cart clicked	
🗙 'View Cart' button not found. Navigating manually to Cart page	, l
☑ Navigated to Cart manually via URL	
[10804:31884:0716/114038.046:ERROR:chrome\browser\task_manager\providers\fallback_task_provider.cc:126] Every renderer should have at least one tas	k pro
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☑ Payment simulated	
☑ Invoice download triggered. It will download to:	
D:/TARU/V th year/Software Testing lab	
☑ Logged out	

INFERENCE

The automation script successfully simulates a complete user journey from login to payment on the Automation Exercise site. All critical steps (login, add to cart, checkout, payment, invoice download) passed without manual intervention. The test validates that the user flow and site functionalities are working as expected.