Lesson 07 Demo 06

Creating and Executing Scenario-Based Tests Using Generative AI

Objective: To create and execute comprehensive scenario-based test scripts using Generative AI tools, focusing on real-world user interactions within a payment gateway system to enhance efficiency and accuracy in software development

Tools required: VS Code, Microsoft Copilot, Eclipse, Selenium and Selenium Web Driver

Prerequisites: Basic knowledge and understanding of scenario-based testing and writing test scripts using Selenium

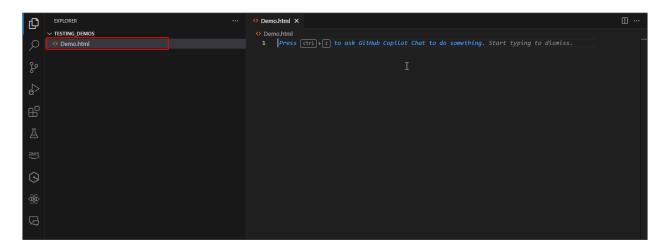
Steps to be followed:

- 1. Generate the test script using Microsoft Copilot
- 2. Execute the test script using Eclipse IDE and Selenium

Note: Please note that all the generative AI tools used in this exercise can produce varied outputs even when presented with similar prompts. Thus, you may get different outputs for the same prompt.

Step 1: Generate the test script using Microsoft Copilot

1.1 Open VS Code and create an HTML file named Demo.html



```
1.2 Add the following code to the Demo.html file:
   <!DOCTYPE html>
   <html lang="en">
   <head>
     <meta charset="UTF-8">
     <meta name="viewport" content="width=device-width, initial-scale=1.0">
     <title>Payment Gateway</title>
     <style>
       body {
          font-family: Arial, sans-serif;
          margin: 0;
          padding: 0;
          background-color: #f7f7f7;
          display: flex;
          justify-content: center;
          align-items: center;
          height: 100vh;
       }
       .container {
          background-color: #ffffff;
          padding: 40px;
          border-radius: 8px;
          box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
          width: 400px;
          max-width: 100%;
          text-align: center;
       }
       h1 {
          margin-bottom: 20px;
          color: #333333;
       }
              label {
      display: block;
      margin-bottom: 5px;
      color: #555555;
      text-align: left;
    }
    input[type="text"],
```

input[type="number"],

select {

```
width: calc(100% - 22px);
      padding: 10px;
      border: 1px solid #ccccc;
      border-radius: 4px;
      box-sizing: border-box;
      margin-bottom: 15px;
    }
    button {
      width: 100%;
      padding: 12px;
      background-color: #007bff;
      color: #ffffff;
      border: none;
      border-radius: 4px;
      cursor: pointer;
      font-size: 16px;
      transition: background-color 0.3s;
    }
    button:hover {
      background-color: #0056b3;
    }
    .error-message {
      color: #ff0000;
      margin-top: 5px;
      text-align: left;
  </style>
</head>
<body>
  <div class="container">
    <h1>Secure Payment Gateway</h1>
    <form id="paymentForm" onsubmit="return validatePayment()">
      <label for="cardNumber">Card Number:</label>
      <input type="text" id="cardNumber" placeholder="Enter your card number"
required>
      <div class="error-message" id="cardNumberError"></div>
      <label for="cardHolderName">Cardholder Name:</label>
      <input type="text" id="cardHolderName" placeholder="Enter cardholder name"
required>
      <div class="error-message" id="cardHolderNameError"></div>
```

```
<label for="expiryDate">Expiry Date:</label>
    <input type="text" id="expiryDate" placeholder="MM/YYYY" required>
    <div class="error-message" id="expiryDateError"></div>
    <label for="cvv">CVV:</label>
    <input type="text" id="cvv" placeholder="Enter CVV" required>
    <div class="error-message" id="cvvError"></div>
    <label for="amount">Amount:</label>
    <input type="number" id="amount" placeholder="Enter amount" required>
    <div class="error-message" id="amountError"></div>
    <label for="currency">Currency:</label>
    <select id="currency" required>
      <option value="USD">USD</option>
      <option value="EUR">EUR</option>
      <option value="GBP">GBP</option>
    </select>
    <button type="submit">Pay Now</button>
  </form>
</div>
<script>
  function validatePayment() {
    var cardNumber = document.getElementById('cardNumber').value;
    var cardHolderName = document.getElementById('cardHolderName').value;
    var expiryDate = document.getElementById('expiryDate').value;
    var cvv = document.getElementById('cvv').value;
    var amount = document.getElementById('amount').value;
    var cardNumberError = document.getElementById('cardNumberError');
    var cardHolderNameError = document.getElementById('cardHolderNameError');
    var expiryDateError = document.getElementById('expiryDateError');
    var cvvError = document.getElementById('cvvError');
    var amountError = document.getElementById('amountError');
    // Simple validation for demonstration purposes
    var isValid = true;
    if (!/^(\d{16})$/.test(cardNumber)) {
      cardNumberError.textContent = "Please enter a valid card number.";
      isValid = false;
    } else {
```

```
cardNumberError.textContent = "";
      }
      if (cardHolderName.trim() === "") {
        cardHolderNameError.textContent = "Please enter the cardholder name.";
        isValid = false:
      } else {
        cardHolderNameError.textContent = "";
      }
      if (!/^(0[1-9]|1[0-2])\/\d{4}$/.test(expiryDate)) {
        expiryDateError.textContent = "Please enter a valid expiry date in MM/YYYY
format.";
        isValid = false;
      } else {
        expiryDateError.textContent = "";
      }
      if (!/^\d{3}$/.test(cvv)) {
        cvvError.textContent = "Please enter a valid CVV.";
        isValid = false;
      } else {
        cvvError.textContent = "";
      if (isNaN(amount) | | amount <= 0) {
        amountError.textContent = "Please enter a valid amount.";
        isValid = false;
      } else {
        amountError.textContent = "";
      }
      return is Valid;
  </script>
</body>
</html>
```

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```

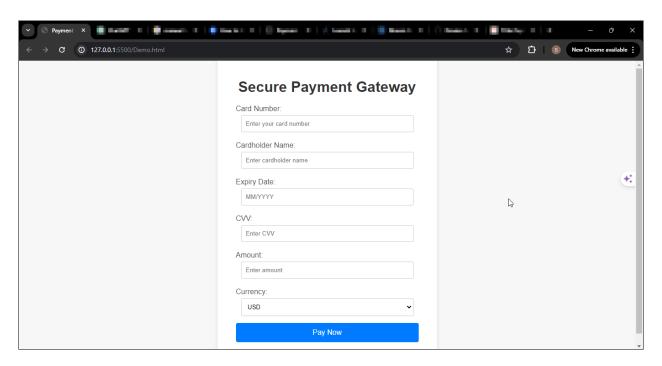
1.3 Click on the **Go Live** button to start the live server as shown in the screenshot below:

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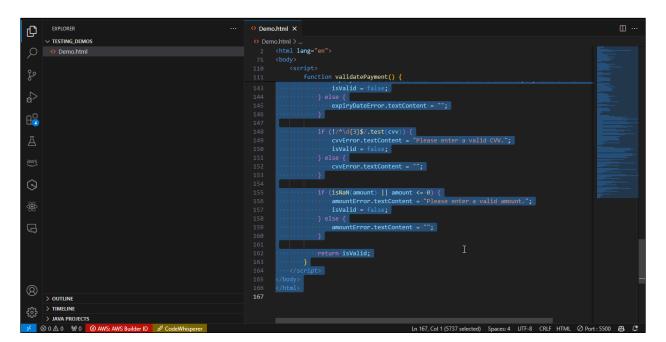
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 O Demo.html
                                                                                                  function validatePayment() {
                                                                                                      isValid = false;
} else {
                                                                                                            expiryDateError.textContent = "";
₽
                                                                                                      if (!/^\d{3}$/.test(cvv)) {
    cvvError.textContent = "Please enter a valid CW.";
    isValid = false;
                                                                                                     cvvError.textContent = "";
}
                                                                                                      if (isNaN(amount) || amount <= 0) {
    amountError.textContent = "Please enter a valid amount.";
    isValid = false;</pre>
                                                                                                      } else {
   amountError.textContent = "";
}
                                                                                                      return isValid;
      > OUTLINE
      > TIMELINE
       > JAVA PROJECTS
                                                                                                                                                                                                 Click to run live server
     ⊗ 0 ♠ 0 № 0 ⊗ AWS: AWS Builder ID 💅 CodeWhisperer
                                                                                                                                                        Ln 147, Col 1 Spaces: 4 UTF-8 CRLF HTML 🛭 Go Live 🔠
```

The following page will appear:



1.4 Navigate to VS Code, select the entire code, and copy the code as shown in the screenshot below:

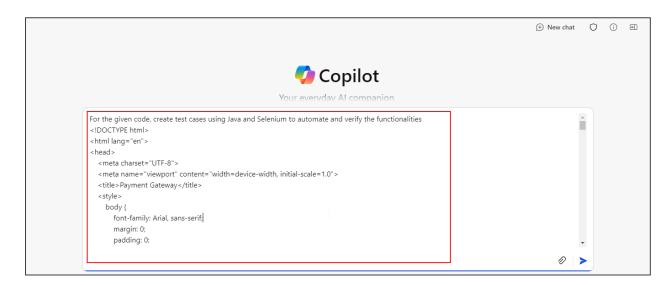


1.5 Open Microsoft Copilot in Google Chrome



1.6 Add the following prompt in the **Ask me anything...** area and paste the code copied in step 1.4:

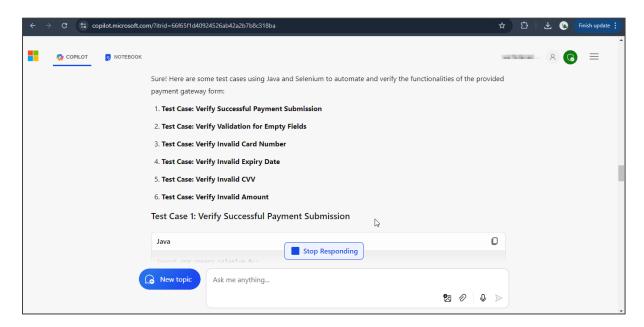
For the given code, create test cases using Java and Selenium to automate and verify the functionalities



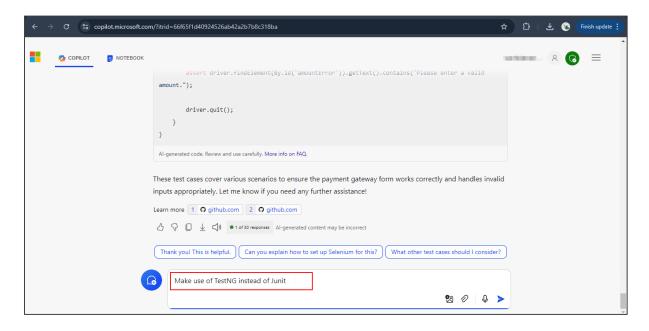
1.7 Click on the Submit button to generate the test cases



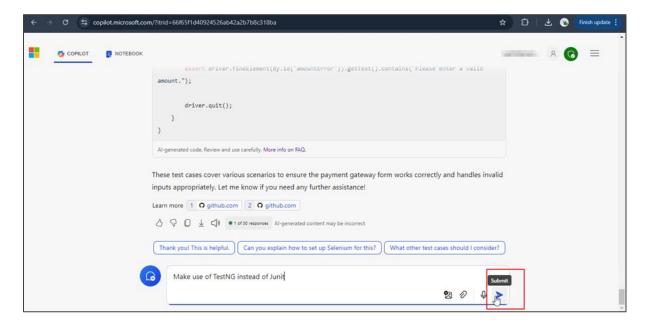
Microsoft Copilot starts generating the test cases as shown below:



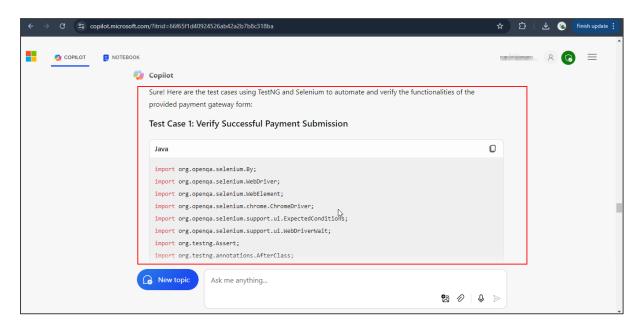
1.8 Add the following prompt to make the changes in the test script: Make use of TestNG instead of Junit



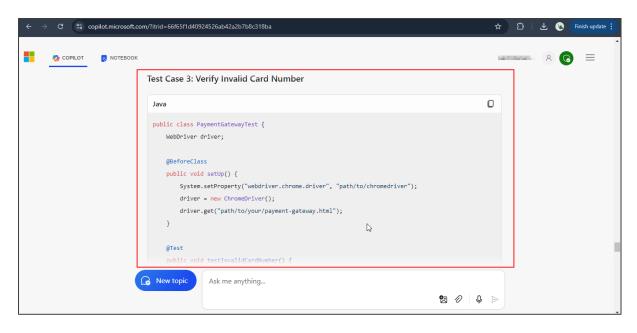
1.9 Click on the Submit button to generate the test cases



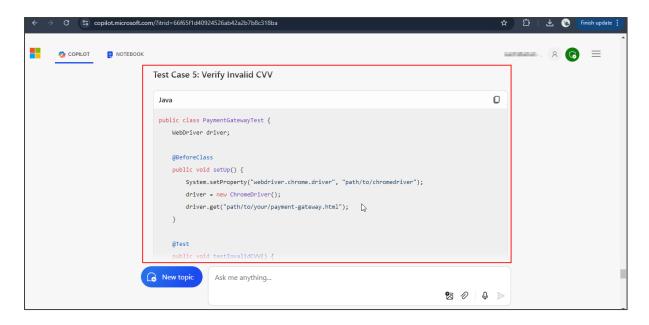
Microsoft Copilot starts generating the test cases as shown below:









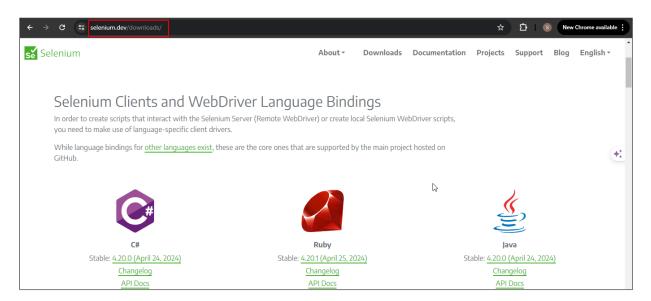




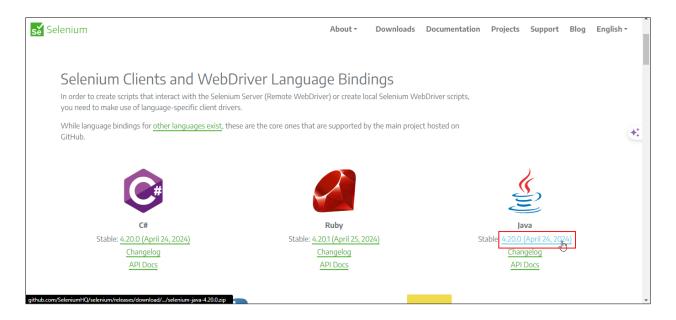
Note: Copy all the test scripts generated by Microsoft Copilot and save them in Notepad

Step 2: Execute the test script using Eclipse IDE and Selenium

2.1 Navigate to https://www.selenium.dev/downloads/

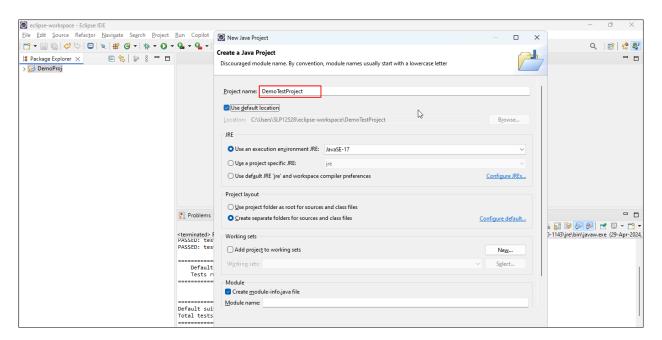


2.2 Click on the **4.20.0** link of the Java client driver as shown in the screenshot below:



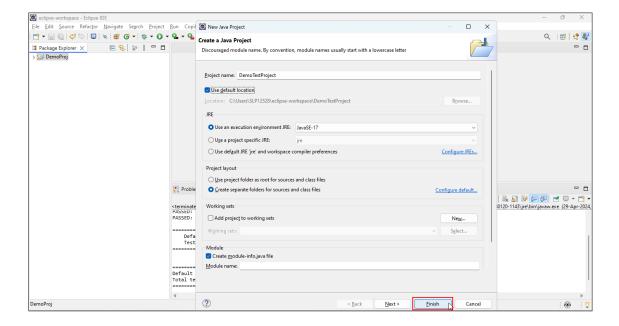
Note: Once the download is complete, extract the files and keep them in a folder to import later in the Java project

2.3 Open the Eclipse IDE and create a new Java project as shown in the screenshot below:

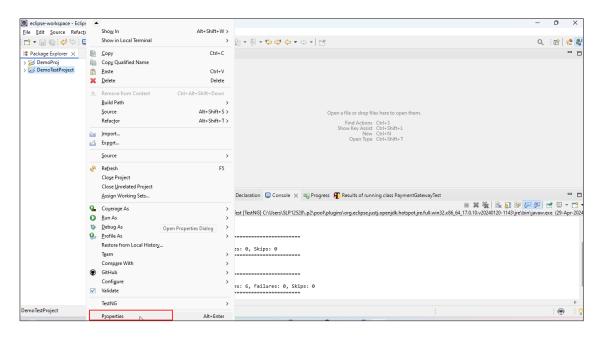


Note: Download and install Eclipse IDE from the official website link (https://www.eclipse.org/downloads/) if you do not have it installed

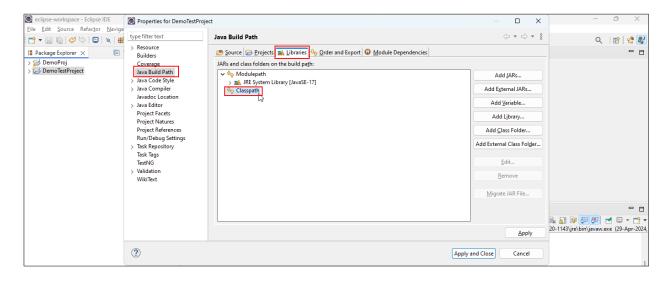
2.4 Click on the **Finish** button as shown in the screenshot below:



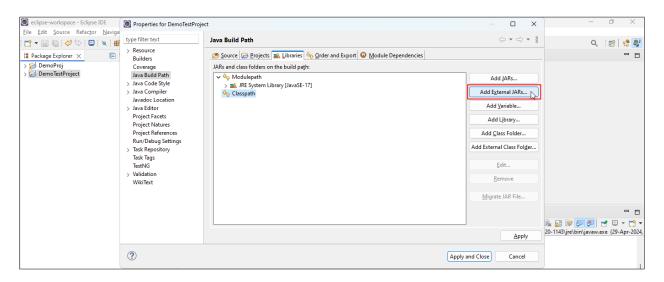
2.5 Right-click on the project name and select the **properties** option as shown in the screenshot below:



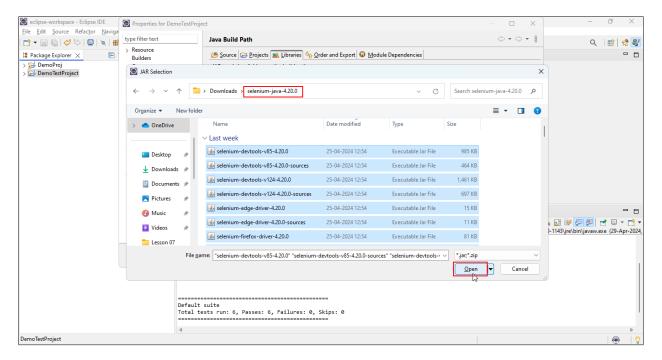
2.6 Click on **Java Build Path**, then click on **Libraries**, and select **Classpath** from the drop-down as shown in the screenshot below:



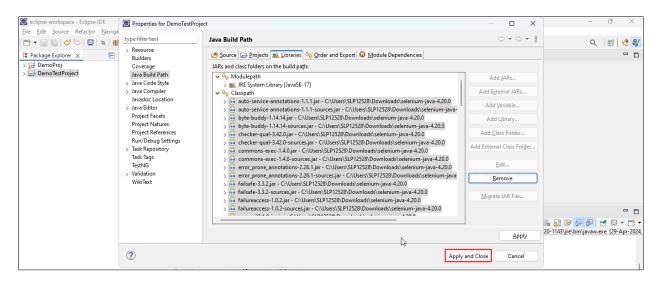
2.7 Click on the Add External JARs... button as shown in the screenshot below:



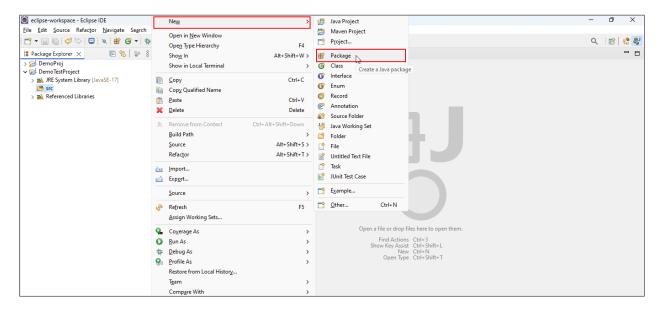
2.8 Select all the JAR files from the extracted **selenium-java-4.20.0** folder and click on the **Open** button as shown in the screenshot below:



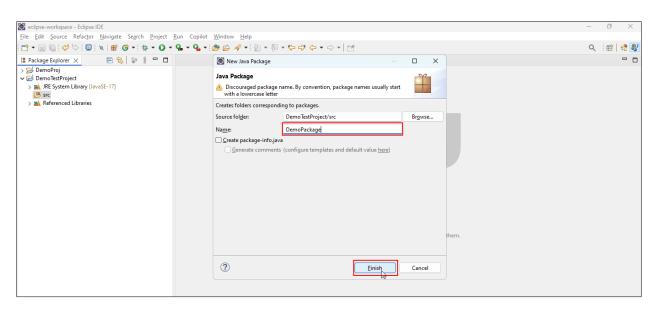
2.9 Click on the **Apply and Close** button once the JAR files are added to the **Classpath** as shown in the screenshot below:



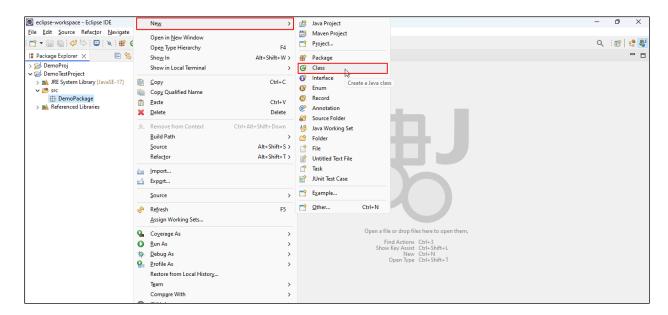
2.10 Right-click on the src folder, select **New**, and then select **Package** to create a new package as shown in the screenshot below:



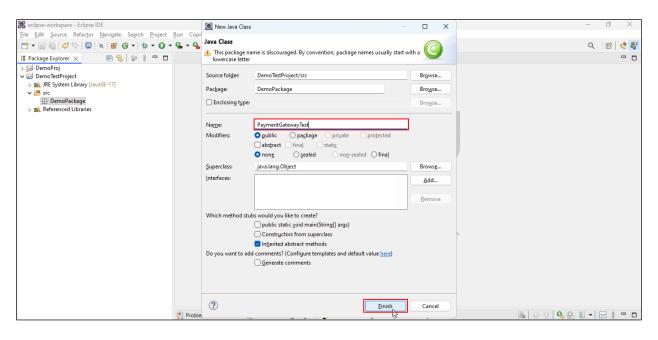
2.11 Enter the name of the package and click on the **Finish** button as shown in the screenshot below:

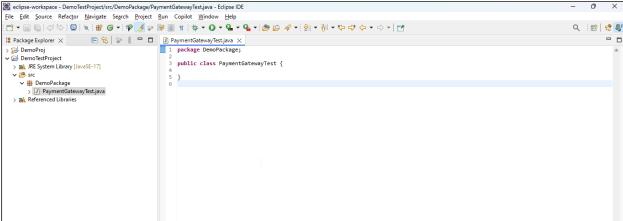


2.12 Right-click on the package name, scroll to **New**, and select **Class** to create a new Java class as shown in the screenshot below:



2.13 Enter the same class name that you got in step 1.7 and click on the **Finish** button as shown in the screenshot below:





2.14 Replace the existing code with the code that you saved earlier in the Notepad

```
🧱 eclipse-workspace - DemoTestProject/src/DemoPackage/PaymentGatewayTest.java - Eclipse IDE
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10 Pimport Org.testing.Assert;
12 import org.testing.annotations.AfterMethod;
13 import org.testing.annotations.BeforeMethod;
14 import org.testing.annotations.Test;
15 import org.testing.annotations.Test;
16 import org.openqa.selenium.*;
17 import org.openqa.selenium.chrome.ChromeDriver;
18 import org.openqa.selenium.support.ui.Select;
 > DemoProj

DemoTestProject
     > M JRE System Library [JavaSE-17]

> M src

→ 

⊕ DemoPackage

     > PaymentGatewayTest.java
> M Referenced Libraries
                                                                                         9 public class PaymentGatewayTest []
10 private WebDriver driver;
                                                                                                        @BeforeMethod
public void setUp() {
                                                                                                                aix vaid setup() {
    System.setProperty("webdriver.chrome.driver", "path/to/chromedriver");
    driver = new ChromeDriver();
    driver.get("file:///path/to/Demo.html");
                                                                                                       @Test
public void testCardNumber() {
    WebElement cardNumber = driver.findElement(By.id("cardNumber"));
    cardNumber.sendKeys("1234567890123456");
    Assect.assertEquals("1234567890123456", cardNumber.getAttribute("value"));
}
                                                                                                       @Iest
public void testCardHolderName() {
    WebElement cardHolderName = driver.findElement(By.id("cardHolderName"));
    cardHolderName.sendKeys("John Doe");
    Assert, assertEquals("John Doe", cardHolderName.getAttribute("value"));
}
                                                                                                         @Test
public void testExpiryDate() {
```

Note: Do not replace the package name, else it might cause an error

2.15 Scroll to the line indicating the error and add the TestNG library to resolve the errors as shown in the screenshots below:

```
eclipse-workspace - DemoTestProject/src/DemoPackage/PaymentGatewayTest.java - Eclipse IDE
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                                                                                                                                                                                                                                                                                           10 import org.testng.Assert;
10 2 import org.testng.annotations.AfterWethod;
10 3 import org.testng.annotations.AfterWethod;
10 4 import org. 10 quick fixes available
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✓ ☑ DemoTestProject

              > A JRE System Library [JavaSE-17]
                                                                                                                                                                                                                                                                                                                      import org.

impor
                               > PaymentGatewayTest.java
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Create enum / AfterMethod in package orgatesing.annotations:

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                                                                                                                                                                                                                                                                                                                                                    @Test
public void testCardNumber() {
    WebElement cardNumber = driver.findElement(By.id("cardNumber"));
    cardNumber.sendKeys("1234567890123456");
    Assect. assertEquals("1234567890123456", cardNumber.getAttribute("value"));
                                                                                                                                                                                                                                                                                                                                                                              st
lic void testCardHolderName() {
WebElement cardHolderName = driver.findElement(By.id("cardHolderName"));
cardHolderName.sendKeyg'Tohn Doe");
Assert.assertEquals("John Doe", cardHolderName.getAttribute("value"));
                                                                                                                                                                                                                                                                                                                                                        @Test
public void testExpiryDate() {
```

```
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                                                                                                                                                                                                                                1⊖ package DemoPackage;
                                                                                                                                                                                                           import org.testng.Assert;
import org.testng.annotations.AfterNethod;
import org.testng.annotations.BeforeNethod;
import org.testng.annotations.Test;
import org.testng.annotations.Test;
import org.openqa.selenium.*;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.wi.Select;
     ✓ 

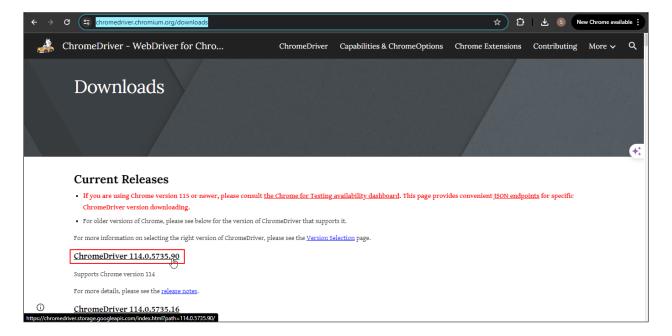
    DemoTestProject
    DemoTestProjec
             > M JRE System Library [JavaSE-17]
            DemoPackage

PaymentGatewayTest.java

Referenced Libraries
              > 🔼 TestNG
                                                                                                                                                                                                                                                          @@eto-revietchod
public void setUp() {
   System.setProperty("webdriver.chrome.driver", "path/to/chromedriver");
   driver = new ChromeDriver();
   driver.get("file:///path/to/Demo.html");
                                                                                                                                                                                                                                                    @Test
public void testCardNumber() {
    WebElement cardNumber = driver.findElement(By.id("cardNumber"));
    cardNumber.sendKeys("1234567890123456");
    Assert.assertEquals("1234567890123456", cardNumber.getAttribute("value"));
}
                                                                                                                                                                                                                                                  @Test
public void testCardHolderName() {
    WebElement cardHolderName = driver.findElement(By.id("cardHolderName"));
    cardHolderName.sendKeys("John Doe");
    Assert.assertEquals("John Doe", cardHolderName.getAttribute("value"));
    ,
```

Note: Navigate to the **Help** section, click on **Eclipse marketplace...,** and search for and install **TestNG** if you do not have it installed

2.16 Navigate to https://chromedriver.chromium.org/downloads and download the latest version of Chrome driver that supports your Google Chrome and operating system





Note: Extract the zip folder on your system

2.17 Remove the **System.setProperty** line from the code as shown in the screenshot below:

```
eclipse-workspace - DemoTestProject/src/DemoPackage/PaymentGatewayTest.java - Eclipse IDE
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 🔋 Package Explorer 🗴 🕒 🗐 💲 🥛 🗂 🔝 *PaymentGatewayTest.java 🗴
                                                                                                                                                                                                                                                                                                                            - -
                                                                                      1⊖ package DemoPackage;
2
  > 🞏 DemoProj
 2
3 import org.testng.Assert;
4 import org.testng.annotations.AfterNethod;
5 import org.testng.annotations.BeforeNethod;
6 import org.testng.annotations.Test;
7 import org.openqa.selenium.*;
8 import org.openqa.selenium.chrome.ChromeDriver;
9 import org.openqa.selenium.support.ui.Select;
10
    ✓ ∰ Src
✓ ∰ DemoPackage

> ∰ PaymentGatewayTest.java

> ➡ Referenced Libraries
     > M TestNG
                                                                                    10 public class PaymentGatewayTest {
12⊖ private WebDriver driver;
                                                                                                 @BeforeMethod
public void setUp() {
                                                                                                       driver = new ChromeDriver();
driver.get("file:///path/to/Demo.html");
                                                                                   20
21
22
23
24
25
266
27
28
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30
31
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33@
34
                                                                                                 @Test
public void testCardNumber() {
    WebElement cardNumber = driver.findElement(By.id("cardNumber"));
    cardNumber.sendKeys("1234567890123456");
    Assert.assertEquals("1234567890123456", cardNumber.getAttribute("value"));
}
                                                                                                 @Test
public void testCardHolderName() {
    WebElement cardHolderName = driver.findElement(By.id("cardHolderName"));
    cardHolderName.sendKeys("John Doe");
    Assert.assertEquals("John Doe", cardHolderName.getAttribute("value"));
}
```

2.18 Replace the URL path with the URL of the live server as shown in the screenshot below:

```
eclipse-workspace - DemoTestProject/src/DemoPackage/PaymentGatewayTest.java - Eclipse IDE
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 <u>F</u>ile <u>E</u>dit <u>S</u>ource Refactor <u>N</u>avigate Se<u>a</u>rch <u>P</u>roject <u>R</u>un Copilot <u>W</u>indow <u>H</u>elp
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                                                                                                                                                                                                                                                                                                                            - -
                                                                                     1 package DemoPackage;
 ∨ ₩ DemoTestProject
                                                                                 2
39 import org.testng.Assert;
4 import org.testng.annotations.AfterMethod;
5 import org.testng.annotations.BeforeMethod;
6 import org.testng.annotations.Test;
7 import org.openqa.selenium.*;
8 import org.openqa.selenium.chrome.ChromeDriver;
9 import org.openqa.selenium.support.wi.Select;
10
    > M JRE System Library [JavaSE-17]
        —

∨ ∰ DemoPackage
       > PaymentGatewayTest.java
Referenced Libraries
     > M TestNG
                                                                                     10
11 public class PaymentGatewayTest {
12 private WebDriver driver;
                                                                                                 @BeforeMethod
public void setUp() {
                                                                                                 driver = new ChromeDriver();
driver.get("file:///path/to/Demo.html");
}
                                                                                                @Test
public void testCardNumber() {
    WebElement cardNumber = driver.findElement(By.id("cardNumber"));
    cardNumber.sendkeys("1234567890123456");
    Assert.assertEquals("1234567890123456", cardNumber.getAttribute("value"));
}
                                                                                                 guest
public void testCardHolderName() {
    WebElement cardHolderName = driver.findElement(By.id("cardHolderName"));
    cardHolderName.sendKeys("John Doe");
    Assert.assertEquals("John Doe", cardHolderName.getAttribute("value"));
                                                                                                 1
                                                                                                 @Test
```

```
eclipse-workspace - DemoTestProject/src/DemoPackage/PaymentGatewayTest.java - Eclipse IDE
                                                                                                                                                                                                                                                                                               ō
Q 🔡 🖺 📳
- -
                                                                            1 package DemoPackage;
 ✓ 🔂 DemoTestProject
                                                                            2
39 import org.testng.Assert;
4 import org.testng.annotations.AfterMethod;
5 import org.testng.annotations.BeforeMethod;
6 import org.testng.annotations.Test;
7 import org.testng.annotations.Test;
8 import org.openqa.selenium.*;
9 import org.openqa.selenium.chrome.ChromeDriver;
9 import org.openqa.selenium.support.ui.Select;
    > MRE System Library [JavaSE-17]

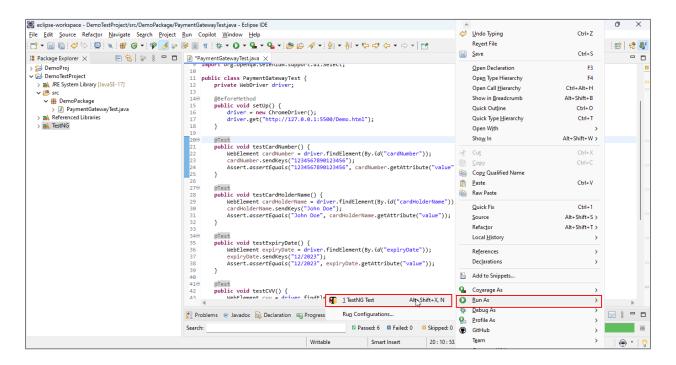
✓ ∰ src

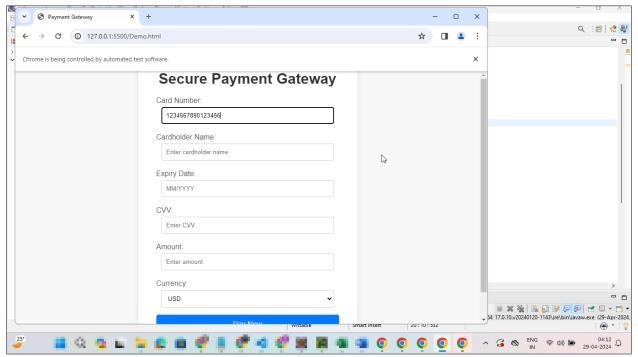
✓ ∰ DemoPackage
       > PaymentGatewayTest.java

Referenced Libraries
    > M TestNG
                                                                              public class PaymentGatewayTest {
private WebDriver driver;
                                                                                          @BeforeMethod
public void setUp() {
    driver = new ChromeDriver();
    driver.get("http://127.0.0.1]
}
                                                                                          @Test
public void testCardNumber() {
    WebElement cardNumber = driver.findElement(By.id("cardNumber"));
    cardNumber.sendKeys("1234567898123456");
    Assert.assertEquals("1234567898123456", cardNumber.getAttribute("value"));
                                                                                           glest
public void testCardHolderName() {
    WebElement cardHolderName = driver.findElement(By.id("cardHolderName"));
    cardHolderName.sendKeys("John Doe");
    Assert.assertEquads("John Doe"), cardHolderName.getAttribute("value"));
                                                                                          }
```

Note: Save the changes made

2.19 Right-click in the code window, scroll to **Run as**, and click on **TestNG Test** as shown in the screenshot below:

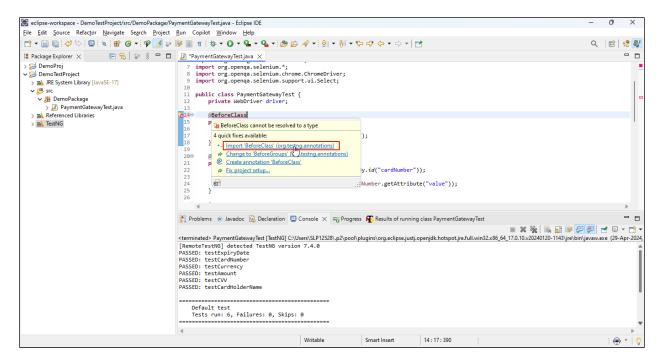




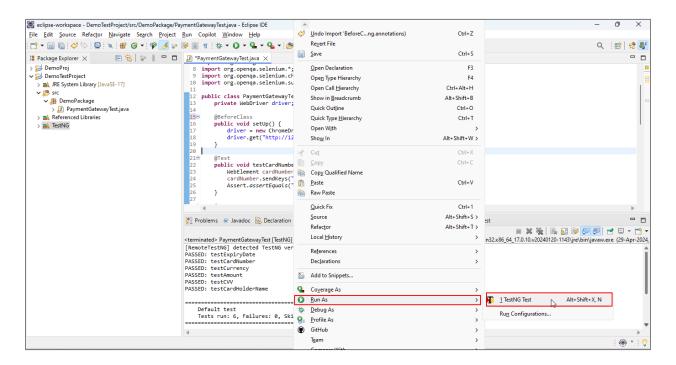
Note: As you are using **BeforeMethod**, a new window pops up every time.

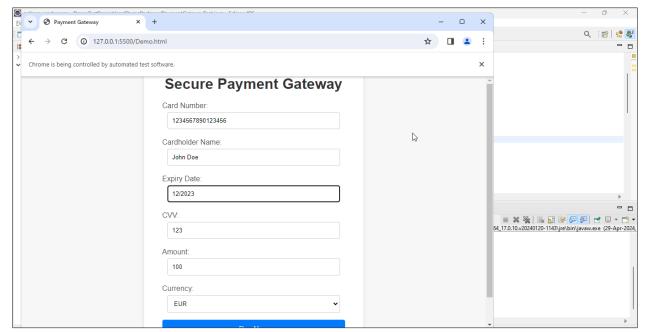
2.20 Navigate to the Java program, replace **BeforeMethod** with **BeforeClass**, and import the same as shown in the screenshot below:

```
📓 eclipse-workspace - DemoTestProject/src/DemoPackage/PaymentGatewayTest.java - Eclipse IDE
<u>File Edit Source Refactor Navigate Search Project Run Copilot Window Help</u>
 Q 🔡 😤 🐉
📮 Package Explorer 🗴 🕒 😂 👂 🤻 🗖 📗 PaymentGatewayTest.java 🗴
                                                                                                                                                                                                                                                                            - -
                                                                            import org.openqa.selenium.*;
import org.openqa.selenium.chrome.ChromeDrive
import org.openqa.selenium.support.ui.Select;
 > 🞏 DemoProj
    > N JRE System Library [JavaSE-17]
    ✓ ﷺ src
✓ ∰ DemoPackage
                                                                        public class PaymentGatewayTest {
    private WebDriver driver;
           > III PaymentGatewayTest.java
    > Neferenced Libraries
> Neferenced Libraries
                                                                                   public void setUp() {
                                                                                       driver = new ChromeDriver();
driver.get("http://127.0.0.1:5500/Demo.html");
                                                                                 @Test
public void testCardNumber() {
    WebElement cardNumber = driver.findElement(By.id("cardNumber"));
    cardNumber.sendKeys("1234567898123456");
    Assert.assertEquals("1234567898123456", cardNumber.getAttribute("value"));
}
                                                                     🧗 Problems @ Javadoc 🚇 Declaration 📮 Console 🗶 🖶 Progress 📭 Results of running class PaymentGatewayTest
                                                                                                                                                                                                                                                                            - -
                                                                                                                                                                                                                          ■ X ¾ | B, a | B | F F | F | F | F | F |
                                                                     <terminated> PaymentGatewayTest [TestNG] C:\Users\SLP12528\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.10.x20240120-1143\jre\bin\javaw.exe (29-Apr-2024 prediction)
                                                                     sterminated> PaymentGatewayTest[TestNG] CNUsers\SLP1
[RemoteTestNG] detected TestNG version 7.4.0
PASSED: testExpiryDate
PASSED: testCardNumber
PASSED: testCurrency
PASSED: testAmount
PASSED: testAmount
PASSED: testCVV
PASSED: testCardHolderName
                                                                           Default test
Tests run: 6, Failures: 0, Skips: 0
```



2.21 Right-click in the code window, scroll to **Run as**, and click on **TestNG** Test as shown in the screenshot below:





2.22 Verify the test result in the console as shown in the screenshot below:

```
🧱 eclipse-workspace - DemoTestProject/src/DemoPackage/PaymentGatewayTest.java - Eclipse IDE
  <u>File Edit Source Refactor Navigate Search Project Run Copilot Window Help</u>
    Q 🔡 🖺 🐯
  🖺 Package Explorer 🗴 🕒 😫 🔭 🖟 🗇 PaymentGatewayTest.java 🗴
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         - -
  > DemoProj
                                                                                                                                                                  8 import org.openqa.selenium.*;
9 import org.openqa.selenium.chrome.ChromeDriver;
10 import org.openqa.selenium.support.ui.Select;
                                                                                                                                                                 miport org.openqa.selenium.stromer.
in import org.openqa.selenium.support.
public class PaymentGatewayTest {
    private WebDriver driver;
    deforeClass
    public void setUp() {
        driver = new ChromeDriver()
        driver, get("http://127.0.0.0)
    }
    @@erest
    public void testCardNumber() {
        WebElement cardNumber = driver
        cardNumber.sendKeys("12345c
        Assert.assertEquals("12345c
        Assert.assertEquals("12345c
        > ② PaymentGatewayTest.java
> ③ Referenced Libraries
                                                                                                                                                                                                   @BeforeClass
public void setUp() {
    driver = new (hromeDriver();
    driver.get("http://127.0.0:1:5500/Demo.html");
          > M TestNG
                                                                                                                                                                                            @Test
public void testCardNumber() {
    WebElement cardNumber = driver.findElement(By.id("cardNumber"));
    cardNumber.sendKeys("1234567890123456");
    Assert.assertEquals("1234567890123456", cardNumber.getAttribute("value"));
    .
                                                                                                                                                                    🥷 Problems 🍘 Javadoc 📵 Declaration 📮 Console 🗴 🖷 Progress 🧗 Results of running class PaymentGatewayTest
                                                                                                                                                                    sterminated > PaymentGatewayTest | TestNG| C:\Useri\SLP12528\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.10.v20240120-1143\yre\bin\)avaw.exe (29-Apr-2024 | PASSED: testCVV | PASSED: testCandholderName | PASSED: testExpiryDate | PASSED: t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Default test
Tests run: 6, Failures: 0, Skips: 0
```

By following these steps, you have successfully utilized generative AI to create and execute detailed, scenario-based test scripts. This enhances the efficiency and accuracy of validating the functionality and reliability of a payment gateway system and ensures a robust user experience in software development.