

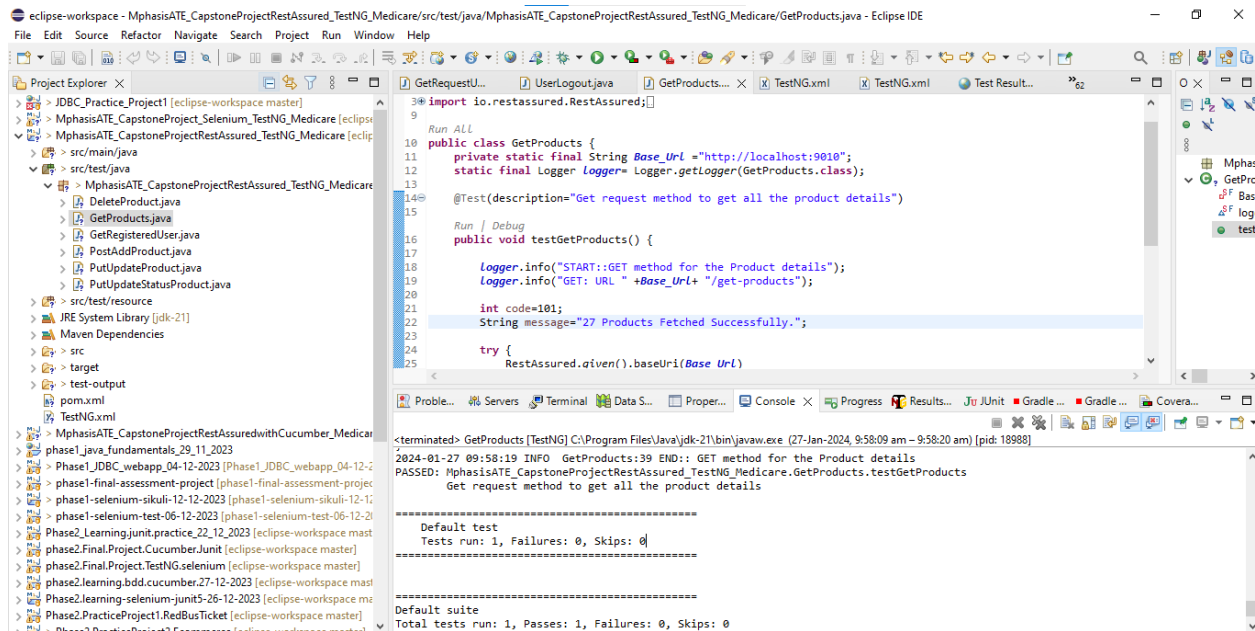
Mphasis ATE Capstone Project Medicare

Name: Prajwal Diwakar

Create a Testing Framework for the Medicare Website

Screenshots: Rest Assured for API endpoints.

Get Products:



The screenshot shows the Eclipse IDE with the 'GetProducts.java' file open. The code defines a REST client for the 'GET /products' endpoint using Rest Assured. The test method 'testGetProducts()' sends a GET request and asserts that the response status is 200 and the body contains '27 Products Fetched Successfully.' The test results pane at the bottom shows that the test passed.

```
import io.restassured.RestAssured;

public class GetProducts {
    private static final String Base_Url = "http://localhost:9010";
    static final Logger logger = Logger.getLogger(GetProducts.class);

    @Test(description="Get request method to get all the product details")
    public void testGetProducts() {
        logger.info("START::GET method for the Product details");
        logger.info("GET: URL " + Base_Url + "/get-products");

        int code=200;
        String message="27 Products Fetched Successfully.";

        try {
            RestAssured.given().baseUri(Base_Url)
                .get(Base_Url + "/get-products")
                .then()
                .statusCode(200)
                .body("code", equalTo(code)).and()
                .body("message", equalTo(message));
        } catch (Exception e) {
            logger.error("Exception Object :: " + e.toString());
            logger.error("End Exception :: " + e.getLocalizedMessage());
        }
    }
}
```

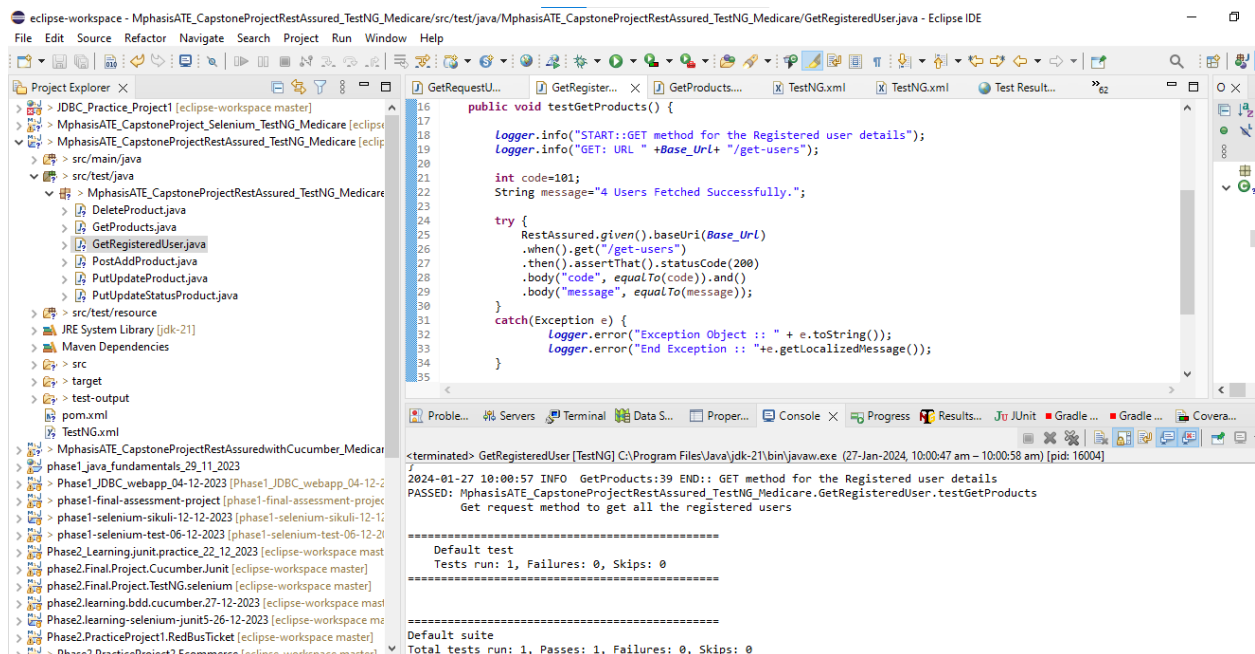
Test Results:

```
<terminated> GetProducts [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 9:58:09 am - 9:58:20 am) [pid: 18988]
2024-01-27 09:58:19 INFO GetProducts:39 END:: GET method for the Product details
PASSED: MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare.GetProducts.testGetProducts
Get request method to get all the product details

Default test
Tests run: 1, Failures: 0, Skips: 0

Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
```

Get Registered Users:



The screenshot shows the Eclipse IDE with the 'GetRegisteredUser.java' file open. The code defines a REST client for the 'GET /users' endpoint using Rest Assured. The test method 'testGetProducts()' sends a GET request and asserts that the response status is 200 and the body contains '4 Users Fetched Successfully.' The test results pane at the bottom shows that the test passed.

```
public void testGetProducts() {
    logger.info("START::GET method for the Registered user details");
    logger.info("GET: URL " + Base_Url + "/get-users");

    int code=200;
    String message="4 Users Fetched Successfully.";

    try {
        RestAssured.given().baseUri(Base_Url)
            .get(Base_Url + "/get-users")
            .then()
            .statusCode(200)
            .body("code", equalTo(code)).and()
            .body("message", equalTo(message));
    } catch (Exception e) {
        logger.error("Exception Object :: " + e.toString());
        logger.error("End Exception :: " + e.getLocalizedMessage());
    }
}
```

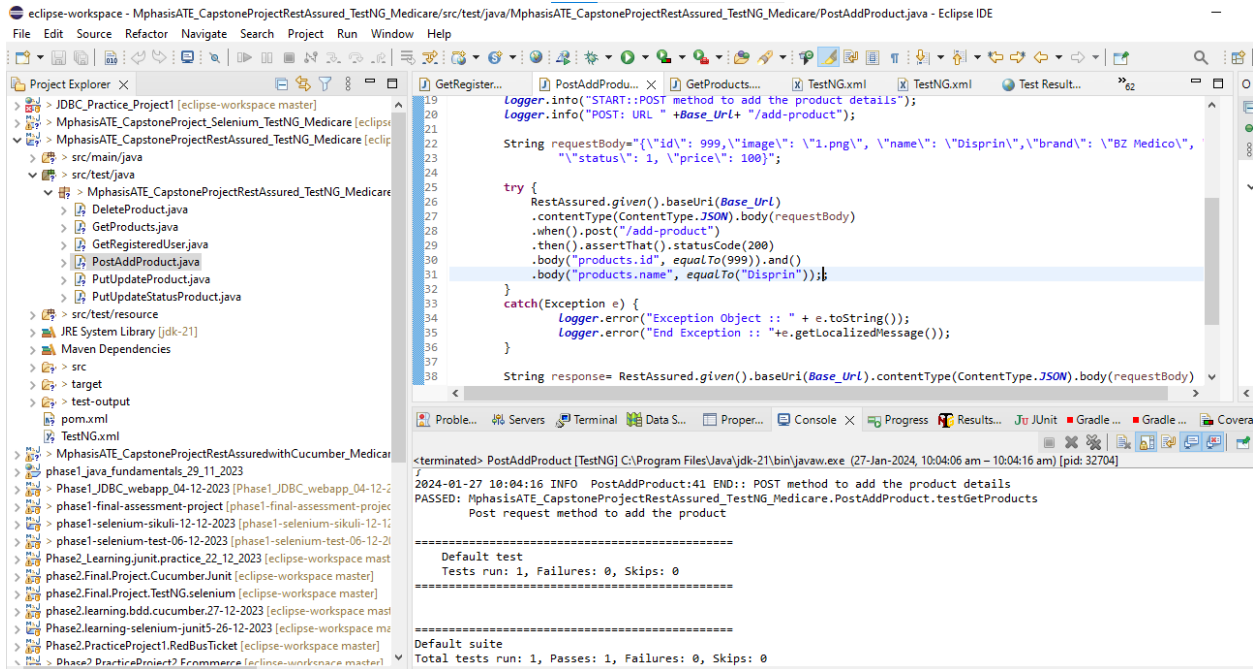
Test Results:

```
<terminated> GetRegisteredUser [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:00:47 am - 10:00:58 am) [pid: 16004]
2024-01-27 10:00:57 INFO GetProducts:39 END:: GET method for the Registered user details
PASSED: MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare.GetRegisteredUser.testGetProducts
Get request method to get all the registered users

Default test
Tests run: 1, Failures: 0, Skips: 0

Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
```

Add Product:



```
eclipse-workspace - MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare/src/test/java/MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare/PostAddProduct.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer
  JDBC_Practice_Project1 [eclipse-workspace master]
  MphasisATE_CapstoneProjectSelenium_TestNG_Medicare [eclipse-workspace master]
  MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare [eclipse-workspace master]
    src/main/java
    src/test/java
      MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare
        DeleteProduct.java
        GetProducts.java
        GetRegisteredUser.java
        PostAddProduct.java
        PutUpdateProduct.java
        PutUpdateStatusProduct.java
    src/test/resource
    JRE System Library [jdk-21]
    Maven Dependencies
    pom.xml
    TestNG.xml
  MphasisATE_CapstoneProjectRestAssuredwithCucumber_Medicare [eclipse-workspace master]
  phase1_java_fundamentals_29_11_2023
  Phase1_JDBC_webapp_04-12-2023 [Phase1_JDBC_webapp_04-12-2023]
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  phase1-selenium-sikuli-12-12-2023 [phase1-selenium-sikuli-12-12-2023]
  phase1-selenium-test-06-12-2023 [phase1-selenium-test-06-12-2023]
  Phase2_Learning.junit.practice_22_12_2023 [eclipse-workspace master]
  phase2.FinalProject.CucumberJUnit [eclipse-workspace master]
  phase2.FinalProject.TestNG.selenium [eclipse-workspace master]
  phase2.learning.bdd.cucumber.27-12-2023 [eclipse-workspace master]
  Phase2.learning-selenium-junit5-26-12-2023 [eclipse-workspace master]
  Phase2.PracticeProject1.RedBusTicket [eclipse-workspace master]
  Phase2.PracticeProject1.RedBusTicket [eclipse-workspace master]

GetRegistered... PostAddProdu... GetProducts... TestNG.xml Test Result...
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Logger.info("START::POST method to add the product details");
Logger.info("POST: URL " + Base_Url + "/add-product");

String requestBody="{\"id\": 999,\"image\": \"1.png\", \"name\": \"Disprin\", \"brand\": \"BZ Medico\", \"status\": 1, \"price\": 100}";

try {
    RestAssured.given().baseUri(Base_Url)
        .contentType(ContentType.JSON).body(requestBody)
        .when().post("/add-product")
        .then().assertThat().statusCode(200)
        .body("products.id", equalTo(999)).and()
        .body("products.name", equalTo("Disprin"));
}
catch(Exception e) {
    Logger.error("Exception Object :: " + e.toString());
    Logger.error("End Exception :: "+e.getMessage());
}

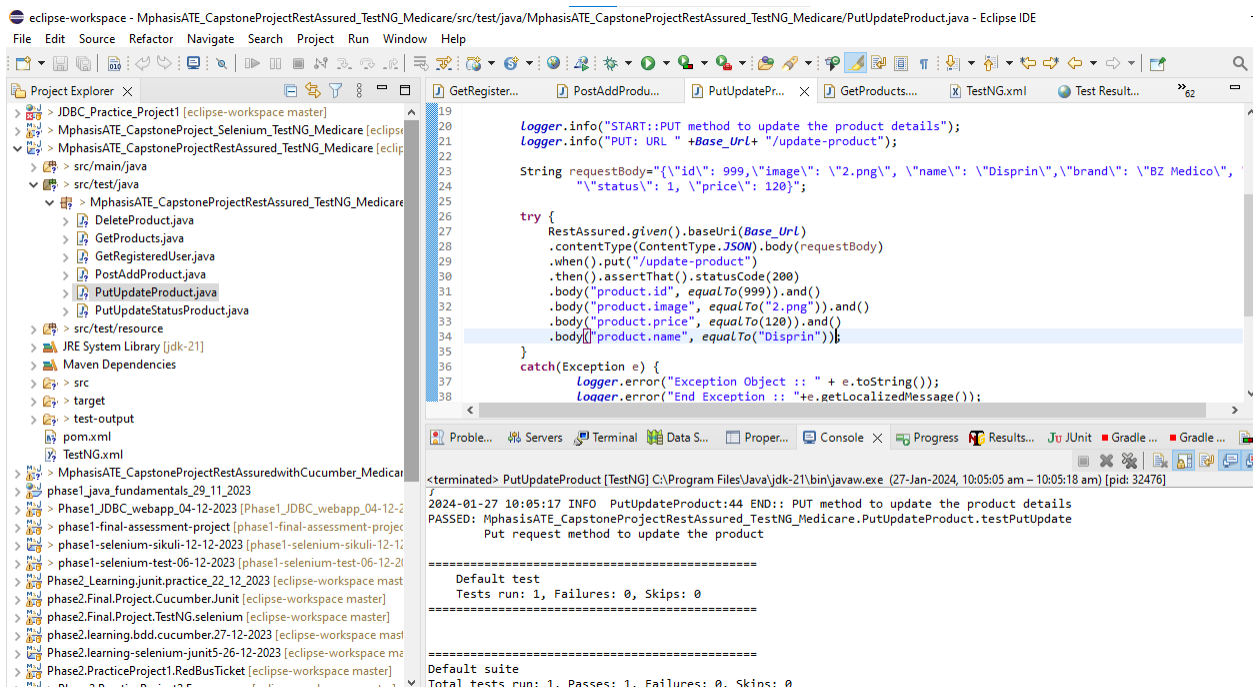
String response= RestAssured.given().baseUri(Base_Url).contentType(ContentType.JSON).body(requestBody)

<terminated> PostAddProduct [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:04:06 am - 10:04:16 am) [pid: 32704]
2024-01-27 10:04:16 INFO PostAddProduct:41 END:: POST method to add the product details
PASSED: MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare.PostAddProduct.testGetProducts
Post request method to add the product

Default test
Tests run: 1, Failures: 0, Skips: 0

Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
```

Update Product:



```
eclipse-workspace - MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare/src/test/java/MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare/PutUpdateProduct.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer
  JDBC_Practice_Project1 [eclipse-workspace master]
  MphasisATE_CapstoneProjectSelenium_TestNG_Medicare [eclipse-workspace master]
  MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare [eclipse-workspace master]
    src/main/java
    src/test/java
      MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare
        DeleteProduct.java
        GetProducts.java
        GetRegisteredUser.java
        PostAddProduct.java
        PutUpdateProduct.java
        PutUpdateStatusProduct.java
    src/test/resource
    JRE System Library [jdk-21]
    Maven Dependencies
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    TestNG.xml
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  phase2.FinalProject.CucumberJUnit [eclipse-workspace master]
  phase2.FinalProject.TestNG.selenium [eclipse-workspace master]
  phase2.learning.bdd.cucumber.27-12-2023 [eclipse-workspace master]
  Phase2.learning-selenium-junit5-26-12-2023 [eclipse-workspace master]
  Phase2.PracticeProject1.RedBusTicket [eclipse-workspace master]
  Phase2.PracticeProject1.RedBusTicket [eclipse-workspace master]

GetRegistered... PostAddProdu... PutUpdatePr... GetProducts... TestNG.xml Test Result...
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Logger.info("START::PUT method to update the product details");
Logger.info("PUT: URL " + Base_Url + "/update-product");

String requestBody="{\"id\": 999,\"image\": \"2.png\", \"name\": \"Disprin\", \"brand\": \"BZ Medico\", \"status\": 1, \"price\": 120}";

try {
    RestAssured.given().baseUri(Base_Url)
        .contentType(ContentType.JSON).body(requestBody)
        .when().put("/update-product")
        .then().assertThat().statusCode(200)
        .body("product.id", equalTo(999)).and()
        .body("product.image", equalTo("2.png")).and()
        .body("product.price", equalTo(120)).and()
        .body("product.name", equalTo("Disprin"));
}
catch(Exception e) {
    Logger.error("Exception Object :: " + e.toString());
    Logger.error("End Exception :: "+e.getMessage());
}

<terminated> PutUpdateProduct [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:05:05 am - 10:05:18 am) [pid: 32476]
2024-01-27 10:05:17 INFO PutUpdateProduct:44 END:: PUT method to update the product details
PASSED: MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare.PutUpdateProduct.testPutUpdate
Put request method to update the product

Default test
Tests run: 1, Failures: 0, Skips: 0

Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
```

Update status Product:

The screenshot shows the Eclipse IDE with the 'PutUpdateStatusProduct.java' file open. The code defines a REST client for updating a product's status. The test results pane at the bottom shows a successful test run.

```
20 Logger.info("PUT: URL = "+Base_Url+ "/update-product-status");
21
22 String requestBody="{\"id\": 999,\"image\": \"1.png\", \"name\": \"Disprin\", \"brand\": \"BZ Medico\",
23 \"status\": 0, \"price\": 100}";
24
25
26 try {
27     RestAssured.given().baseUri(Base_Url)
28     .contentType(ContentType.JSON).body(requestBody)
29     .when().put("/update-product-status")
30     .then().assertThat().statusCode(200)
31     .body("product.id", equalTo(999)).and()
32     .body("product.image", equalTo("1.png")).and()
33     .body("product.price", equalTo(100)).and()
34     .body("product.name", equalTo("Disprin")).and()
35     .body("product.status", equalTo(0));
36 }
37 catch (Exception e) {
38     Logger.error("Exception Object :: " + e.toString());
39     Logger.error("End Exception :: "+e.getMessage());
40 }
```

Test Results:

```
<terminated> PutUpdateStatusProduct [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:06:33 am - 10:06:43 am) [pid: 38584]
2024-01-27 10:06:43 INFO PutUpdateStatusProduct:44 END:: PUT method to update the status of product
PASSED: MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare.PutUpdateStatusProduct.testPostUpdateProductStatus
PUT request method to update the status of product

Default test
Tests run: 1, Failures: 0, Skips: 0

Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
```

Delete Product:

The screenshot shows the Eclipse IDE with the 'DeleteProduct.java' file open. The code defines a REST client for deleting a product. The test results pane at the bottom shows a successful test run.

```
14 @Test(description="Delete request method to delete product")
15
16 public void testGetProducts() {
17     Logger.info("START:DELETE method to delete Product");
18     Logger.info("DELETE: URL = "+Base_Url+ "/get-products");
19
20     int code=101;
21     String message="Product with ID 101 Deleted Successfully.";
22
23     try {
24         RestAssured.given().baseUri(Base_Url)
25         .when().delete("/delete-product?id=101")
26         .then().assertThat().statusCode(200)
27         .body("code", equalTo(code)).and()
28         .body("message", equalTo(message));
29     }
30     catch (Exception e) {
31         Logger.error("Exception Object :: " + e.toString());
32     }
33 }
```

Test Results:

```
<terminated> DeleteProduct [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:07:22 am - 10:07:33 am) [pid: 17684]
2024-01-27 10:07:33 INFO DeleteProduct:40 END:: DELETE method to delete Product
PASSED: MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare.DeleteProduct.testGetProducts
Delete request method to delete product

Default test
Tests run: 1, Failures: 0, Skips: 0

Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
```

Test Report:

eclipse-workspace - file:///C:/Users/Dell/eclipse-workspace/MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare/test-output/html/index.html - Eclipse IDE

File Edit Refactor Navigate Search Project Run Window Help

Project Explorer

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- > MphasisATE_CapstoneProject_Selenium_TestNG_Medicare [eclipse-workspace master]
- > MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare [eclipse-workspace master]
- > src/main/java
- > src/test/java
 - > MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare
 - DeleteProduct.java
 - GetProducts.java
 - GetRegisteredUser.java
 - PostAddProduct.java
 - PutUpdateProduct.java
 - PutUpdateStatusProduct.java
 - > src/test/resource
 - JRE System Library [jdk-21]
 - Maven Dependencies
 - > src
 - > target
 - > test-output
 - pom.xml
 - TestNG.xml
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- > phase1_java_fundamentals_29_11_2023
- > Phase1_JDBC_webapp_04-12-2023 [Phase1_JDBC_webapp_04-12-2023]
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- > phase2.Final.Project.TestNG.selenium [eclipse-workspace master]
- > phase2.learning.bdd.cucumber.27-12-2023 [eclipse-workspace master]
- > Phase2.learning-selenium-junit5-26-12-2023 [eclipse-workspace master]

Test Results Report

Generated by TestNG with ReportNG at 09:55 IST on Saturday 27 January 2024
Dell@DESKTOP-KMOQCD1 / Java 21.0.1 (Oracle Corporation) / Windows 10 10.0 (amd64)

Mphasis ATE Capstone Project Rest Assured

	Duration	Passed	Skipped	Failed	Pass Rate
Medicare	8.316s	6	0	0	100%
Total		6	0	0	100%

There is no active editor that provides an outline.

Problem... Servers Terminal Data S... Proper... Console X Progress Results... JUnit JUnit Gradle... Gradle... Gradle... Covera...

<terminated> MphasisATE_CapstoneProjectRestAssured_TestNG_Medicare_TestNG.xml [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 9:55:35 am - 9:55:49 am)

```
"code": 101,
"message": "Product with ID 101 Deleted Successfully."
}
2024-01-27 09:55:48 INFO DeleteProduct:40 END:: DELETE method to delete Product

Mphasis ATE Capstone Project Rest Assured
Total tests run: 6, Passes: 6, Failures: 0, Skips: 0
```

Selenium with TestNG:

Login Page:

eclipse-workspace - MphasisATE_CapstoneProject_Selenium_TestNG_Medicare/src/test/java/MphasisATE_CapstoneProject_Selenium_TestNG_Medicare/MedicareLoginPage.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

- > JDBC_Practice_Project1 [eclipse-workspace master]
- > MphasisATE_CapstoneProject_Selenium_TestNG_Medicare [eclipse-workspace master]
- > src/main/java
- > src/test/java
 - > MphasisATE_CapstoneProject_Selenium_TestNG_Medicare
 - AutomationMedicareTest.java
 - MedicareAddProductToCart.java
 - MedicareFilterProduct.java
 - MedicareLoginPage.java
 - MedicareLogoutPage.java
 - MedicarePlaceOrderPage.java
 - MedicareRegisterPage.java
 - MedicareSearchProduct.java
 - JRE System Library [jdk-21]
 - Maven Dependencies
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- > phase2.learning.bdd.cucumber.27-12-2023 [eclipse-workspace master]
- > Phase2.learning-selenium-junit5-26-12-2023 [eclipse-workspace master]

MedicareLoginPage.java

```
1 package MphasisATE_CapstoneProject_Selenium_TestNG_Medicare;
2
3 import static org.testng.Assert.assertEquals;
4
5 Run All
6
7
8 public class MedicareLoginPage {
9
10 // step1: formulate a test domain url & driver path
11 String siteUrl = "http://localhost:9010";
12 String driverPath = "drivers/windows/chromedriver.exe";
13 WebDriver driver;
14
15 @BeforeClass
16 public void setUp() throws InterruptedException {
17
18 // step2: set system properties for selenium driver
19 System.setProperty("webdriver.chrome.driver", driverPath);
20
21 // step3: instantiate selenium webdriver
22 driver = new ChromeDriver();
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```

Register Page:

The screenshot shows the Eclipse IDE with the file `MedicareRegisterPage.java` open. The code defines a test class with a single test method `testRegisterPage()` that performs the following actions:

- Clicks on the link `"/html/body/div[2]/form/a"`.
- Enters the name `"Prajwal.Diwakar"` in the first search box.
- Enters the email `"prajwal.diwakar@mphasis.com"` in the second search box.
- Enters the password `"prajwal@123"` in the third search box.
- Clicks on the register button `"/html/body/div[2]/form/button"`.

The test results window shows the following output:

```
<terminated> MedicareRegisterPage [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:16:28 am - 10:16:45 am) [pid: 6668]
WARNING: Unable to find an exact match for CDP version 120, returning the closest version; found: 119; Please update to
PASSED: MphasisATE_CapstoneProject_Selenium_TestNG_Medicare.MedicareRegisterPage.testRegisterPage
Test Medicare Register Page

=====
Default test
Tests run: 1, Failures: 0, Skips: 0
=====

Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
```

Add Product to cart Page:

The screenshot shows the Eclipse IDE with the file `MedicareAddProductToCart.java` open. The code defines a test class with a single test method `testAddProductToCart()` that performs the following actions:

- Clicks on the button `addcart1.click()`.
- Clicks on the button `addcart2.click()`.

The test results window shows the following output:

```
<terminated> MedicareAddProductToCart [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:23:16 am - 10:23:45 am) [pid: 20060]
Add product to cart page Test
PASSED: MphasisATE_CapstoneProject_Selenium_TestNG_Medicare.MedicareAddProductToCart.testRegisterPage
Add product to cart page Test

=====
Default test
Tests run: 2, Failures: 0, Skips: 0
=====

Default suite
Total tests run: 2, Passes: 2, Failures: 0, Skips: 0
```


Place order Page:

The screenshot shows the Eclipse IDE with the MedicarePlaceOrderPage.java file open. The code includes Selenium WebDriver actions for clicking elements, adding delays, and asserting the URL. The test results pane at the bottom shows a successful test run for MedicarePlaceOrderPage.

```
107 // add delay
108 Thread.sleep(2000);
109
110 driver.findElement(By.xpath("//*[@id='mynavbar']/ul/li[1]/a")).click(); //cart
111
112 // add delay
113 Thread.sleep(2000);
114
115 WebElement placeorder= driver.findElement(By.id("place-order")); //place order
116 ((JavascriptExecutor) driver).executeScript("arguments[0].scrollIntoView(true);", placeorder);
117
118 // add delay
119 Thread.sleep(2000);
120 placeorder.click();
121
122 String url= driver.getCurrentUrl();
123 assertEquals("http://localhost:9010/place-order", url);
124
125 }
126 }
```

Test Results:

```
<terminated> MedicarePlaceOrderPage [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:24:23 am - 10:24:59 am) [pid: 19756]
PASSED: MphasisATE_CapstoneProject_Selenium_TestNG_Medicare.MedicarePlaceOrderPage.PlaceOrder
Place order for the product in the cart

=====
Default test
Tests run: 3, Failures: 0, Skips: 0
=====
Default suite
Total tests run: 3, Passes: 3, Failures: 0, Skips: 0
=====
```

Search product Page:

The screenshot shows the Eclipse IDE with the MedicareSearchProduct.java file open. The code includes Selenium WebDriver actions for sending keys, clicking elements, and adding delays. The test results pane at the bottom shows a successful test run for MedicareSearchProduct.

```
64 String actualTitle = driver.getTitle();
65 assertEquals(actualTitle, expectedTitle);
66
67 @Test(priority = 2, description= "Search the product in the search bar")
68
69 public void Searchtheproduct() throws InterruptedException {
70 // add delay
71 Thread.sleep(2000);
72
73 driver.findElement(By.id("search-product")).sendKeys("Lincze Chewable Tablet Orange");
74 // add delay
75 Thread.sleep(2000);
76
77 driver.findElement(By.id("search-product-button")).click();
78 // add delay
79 Thread.sleep(2000);
80
81 }
82
83 }
```

Test Results:

```
<terminated> MedicareSearchProduct [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:25:49 am - 10:26:12 am) [pid: 15992]
PASSED: MphasisATE_CapstoneProject_Selenium_TestNG_Medicare.MedicareSearchProduct.Searchtheproduct
Search the product in the search bar

=====
Default test
Tests run: 2, Failures: 0, Skips: 0
=====
Default suite
Total tests run: 2, Passes: 2, Failures: 0, Skips: 0
=====
```

Filter product Page:

The screenshot shows the Eclipse IDE with the MedicareFilterProduct.java file open. The code defines a test class with a single test method, testRegisterPage(), which performs a series of actions on a web page: clicking a link, sending keys to search boxes for username, email, and password, and then clicking a register button. The test is annotated with @Test(priority = 1, description = "Filter the products").

```
39 // driver.close(); // the close() closes only the current window on which Selenium is running automate
40 }
41
42 @Test(priority = 1, description = "Filter the products")
43
44 Run | Debug
45 public void testRegisterPage() throws InterruptedException {
46     WebElement link = driver.findElement(By.xpath("/html/body/div[2]/form/a"));
47
48     link.click();
49     WebElement searchbox1 = driver.findElement(By.id("name"));
50     searchbox1.sendKeys("Prajwal.Diwakar");
51
52     WebElement searchbox2 = driver.findElement(By.id("email"));
53     searchbox2.sendKeys("prajwal.diwakar@mphasis.com");
54
55     WebElement searchbox3 = driver.findElement(By.id("password"));
56     searchbox3.sendKeys("prajwal123");
57 }
```

The console output shows the test results for the MedicareFilterProduct class. The test suite 'Default suite' contains one test 'Default test' which passed successfully. The total tests run were 2, with 2 passes, 0 failures, and 0 skips.

```
<terminated> MedicareFilterProduct [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:29:21 am - 10:29:53 am) [pid: 37392]
PASSED: MphasisATE_CapstoneProjectSelenium_TestNG_Medicare.MedicareFilterProduct.Filtertheproduct
Filter the products
=====
Default test
Tests run: 2, Failures: 0, Skips: 0
=====
Default suite
Total tests run: 2, Passes: 2, Failures: 0, Skips: 0
=====
```

Test Report:

The screenshot shows the Eclipse IDE with the Test Results Report for the MedicareFilterProduct test. The report is generated by TestNG with Reporting at 10:32 IST on Saturday 27 January 2024. It provides a detailed overview of the test results, including the duration, passed, skipped, failed, and pass rate for each test case.

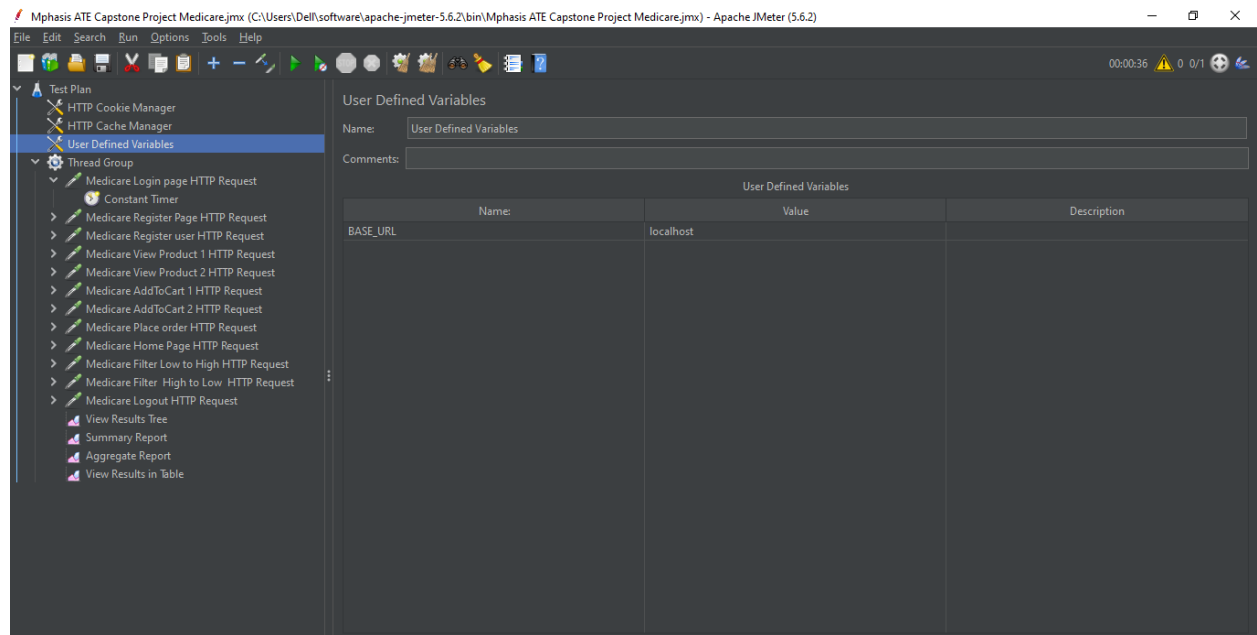
Test Case	Duration	Passed	Skipped	Failed	Pass Rate
Medicare Web	128.951 s	12	0	0	100%
Application Test					
Total		12	0	0	100%

The report also includes a list of warnings generated during the test execution, such as 'Unable to find an exact match for CDP version 120, returning the closest version; found: 119; Please update to a Selenium'.

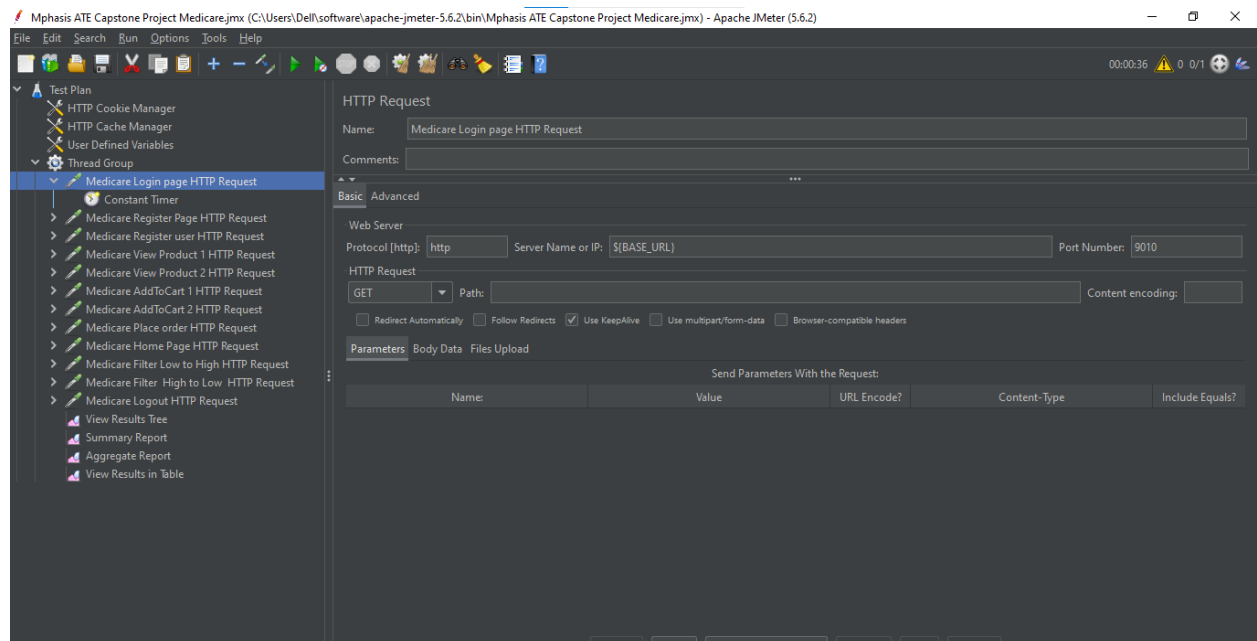
```
<terminated> MphasisATE_CapstoneProjectSelenium_TestNG_Medicare_TestNG.xml [TestNG] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:32:27 am - 10:34:
Jan 27, 2024 10:33:49 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 120, returning the closest version; found: 119; Please update to a Selenium
Jan 27, 2024 10:34:05 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 120, returning the closest version; found: 119; Please update to a Selenium
Jan 27, 2024 10:34:32 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 120, returning the closest version; found: 119; Please update to a Selenium
=====
Mphasis ATE Capstone Project
Total tests run: 12, Passes: 12, Failures: 0, Skips: 0
=====
```

JMeter

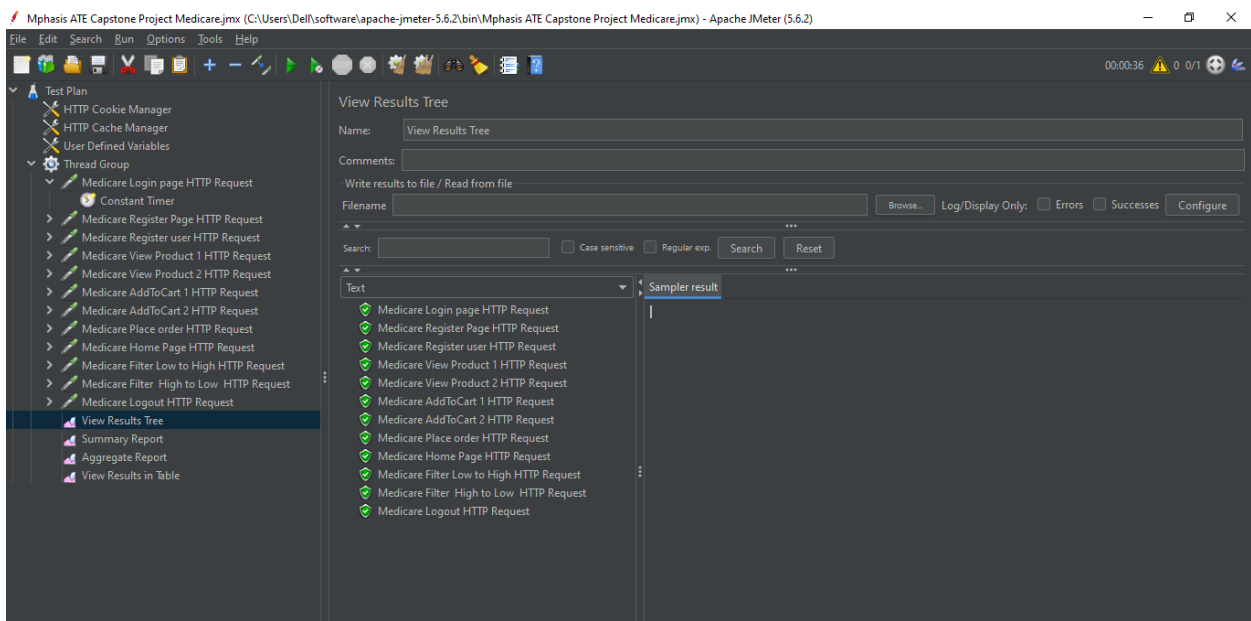
User defined Variables



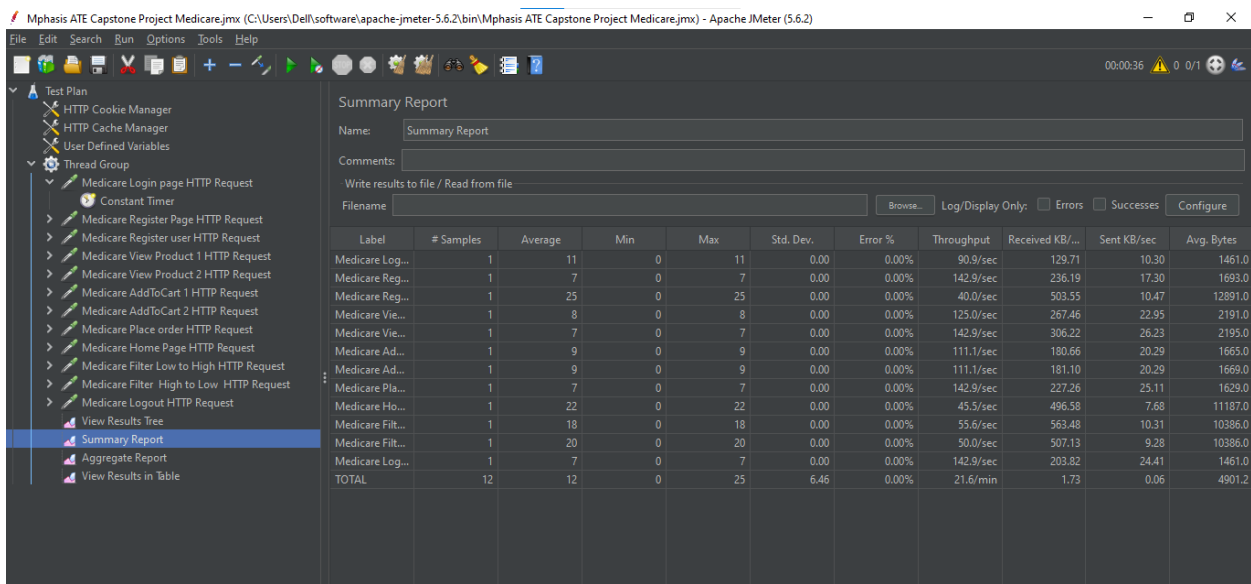
Http request:



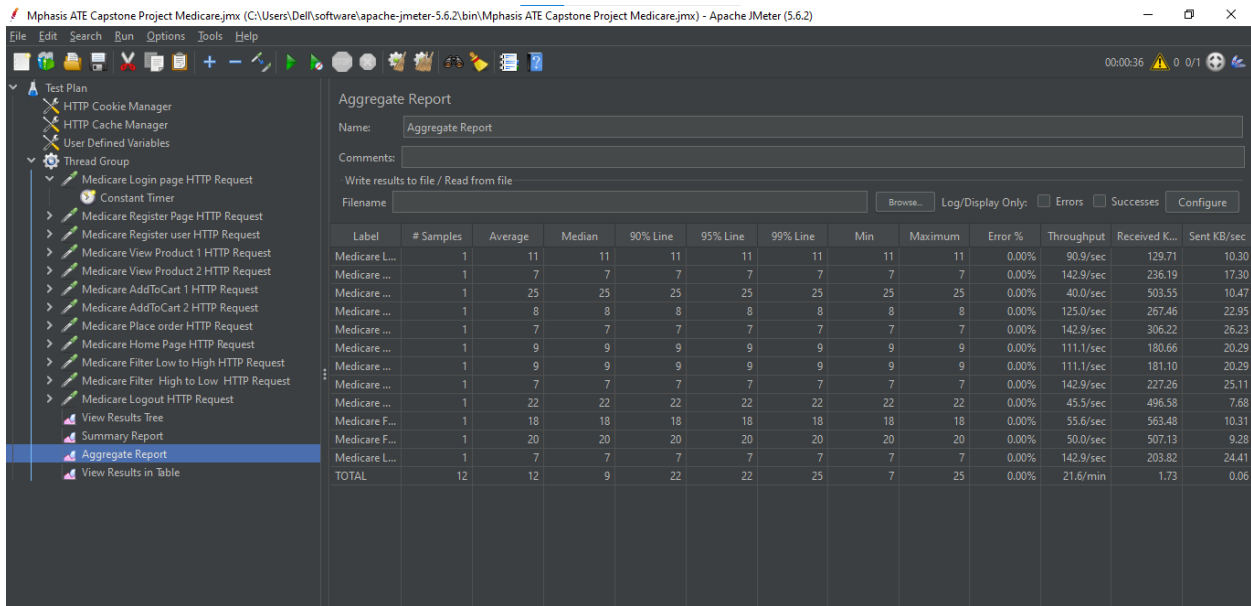
View Results Tree.



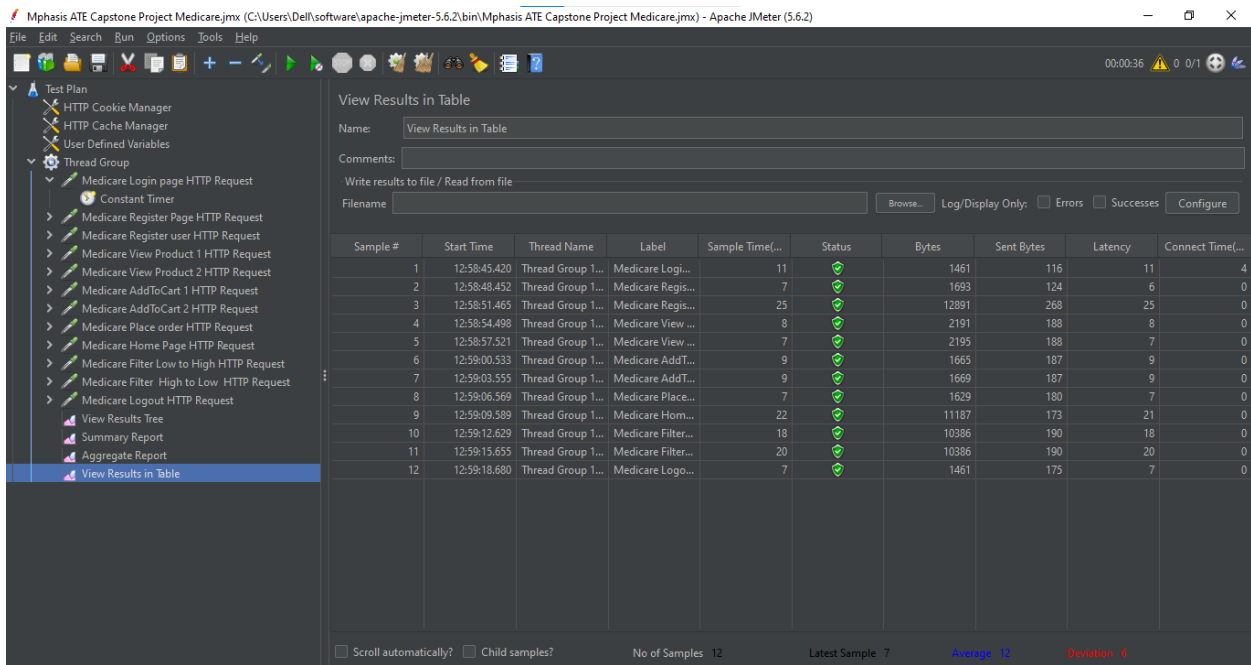
Summary Report



Aggregate Report



View Results in Table:



Cucumber Test for the API endpoints

Get products:

The screenshot shows the Eclipse IDE with the 'GetProduct.feature' file open. The test results pane at the bottom indicates that the test passed successfully. The console output shows the following details:

```
<terminated> GetProduct.feature [Cucumber Feature] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:44:02 am - 10:44:13 am) [pid: 28884]
@Restfull @smoketest
Scenario: Retrieve the list of all products in the store
Given user wants to get the list of all products in the store
When User executes the endpoint url of the get product page
Then user gets the all the products in the store.
Then the request response has a 200 response code

1 Scenarios (1 passed)
4 Steps (4 passed)
0m6.816s
```

Get Registered users:

The screenshot shows the Eclipse IDE with the 'GetRegisteredUser.feature' file open. The test results pane at the bottom indicates that the test passed successfully. The console output shows the following details:

```
<terminated> GetRegisteredUser.feature [Cucumber Feature] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:46:50 am - 10:46:59 am) [pid: 38680]
Scenario: Retrieve the list of all registered users
Given user wants to get the list of all registered users
When User executes the endpoint url of the get user page
Then user gets the all the registered users.
Then validate the outcomes status code is 200

1 Scenarios (1 passed)
4 Steps (4 passed)
0m7.753s
```

Add Product:

The screenshot shows the Eclipse IDE with the 'PostAddProduct.feature' file open. The feature file contains the following Gherkin code:

```
1 Author: prajwal@gmail.com
2 Feature: Testing the medicare web application API.
3   User is testing the API of the web application to add the products.
4
5 Scenario: Add the product
6   Given user wants to add the products
7   When User executes the endpoint url of the adding product page
8   Then user adds the products.
9   Then validate the outcomes of status code is 200
10
```

The console output shows the test results for the 'Add the product' scenario:

```
<terminated> PostAddProduct.feature [Cucumber Feature] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:47:38 am - 10:47:48 am) [pid: 38080]

Scenario: Add the product                                     # src/test/resource/features/PostAddProduct.feature:5
Given user wants to add the products                         # StepDefinitions.PostAddProduct.user_wants_to_add_the_products()
When User executes the endpoint url of the adding product page # StepDefinitions.PostAddProduct.user_executes_the_endpoint_url_of_
Then user adds the products.                                # StepDefinitions.PostAddProduct.user_adds_the_products()
Then validate the outcomes of status code is 200             # StepDefinitions.PostAddProduct.validate_the_outcomes_of_status_co

1 Scenarios (1 passed)
4 Steps (4 passed)
0m8.066s
```

Update Product:

The screenshot shows the Eclipse IDE with the 'PutUpdateProduct.feature' file open. The feature file contains the following Gherkin code:

```
1 Author: prajwal@gmail.com
2 Feature: Testing the medicare web application API.
3   User is testing the API of the web application to update the products.
4
5 Scenario: update the product
6   Given user wants to update the products
7   When User executes the endpoint url of the update product page
8   Then user updates the products.
9   Then user validates the outcomes of status code is 200
10
```

The console output shows the test results for the 'update the product' scenario:

```
<terminated> PutUpdateProduct.feature [Cucumber Feature] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:48:29 am - 10:48:39 am) [pid: 15820]

Scenario: update the product                                 # src/test/resource/features/PutUpdateProduct.feature:5
Given user wants to update the products                     # StepDefinitions.PutUpdateProductStep.user_wants_to_update_the_pro
When User executes the endpoint url of the update product page # StepDefinitions.PutUpdateProductStep.user_executes_the_endpoint_u
Then user updates the products.                             # StepDefinitions.PutUpdateProductStep.user_updates_the_products()
Then user validates the outcomes of status code is 200       # StepDefinitions.PutUpdateProductStep.user_validates_the_outcomes_

1 Scenarios (1 passed)
4 Steps (4 passed)
0m7.400s
```

Update status of product:

The screenshot shows the Eclipse IDE with the 'PutUpdateStatusProduct.feature' file open. The file contains the following Gherkin code:

```
1 #Author: prajwal@gmail.com
2 @Feature: Testing the medicare web application API.
3 User is testing the API of the web application to update status of the products.
4
5 @Scenario: Update status of the product
6 Given user wants to Update status of the product
7 When User executes the endpoint url of the update product status
8 Then user updates the product status.
9 Then user validating the outcomes of status code is 200
10
```

The console output shows the execution results:

```
<terminated> PutUpdateStatusProduct.feature [Cucumber Feature] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:49:15 am - 10:49:25 am) [pid: 6372]

Scenario: Update status of the product # src/test/resource/features/PutUpdateStatusProduct.feature:5
Given user wants to Update status of the product # StepDefinitions.PutUpdateStatusProductStep.user_wants_to_update
When User executes the endpoint url of the update product status # StepDefinitions.PutUpdateStatusProductStep.user_executes_the_en
Then user updates the product status. # StepDefinitions.PutUpdateStatusProductStep.user_updates_the_pro
Then user validating the outcomes of status code is 200 # StepDefinitions.PutUpdateStatusProductStep.user_validating_the_

1 Scenarios (1 passed)
4 Steps (4 passed)
0m7.510s
```

Delete Product:

The screenshot shows the Eclipse IDE with the 'DeleteProduct.feature' file open. The file contains the following Gherkin code:

```
1 #Author: prajwal@gmail.com
2 @Feature: Testing the medicare web application API.
3 User is testing the API of the web application to delete the products.
4
5 @Scenario: Delete the product
6 Given user wants to delete the products
7 When User executes the endpoint url of the delete product page
8 Then user deletes the products.
9 Then user will validate the outcomes of status code is 200
10
```

The console output shows the execution results:

```
<terminated> DeleteProduct.feature [Cucumber Feature] C:\Program Files\Java\jdk-21\bin\javaw.exe (27-Jan-2024, 10:50:00 am - 10:50:11 am) [pid: 26092]

Scenario: Delete the product # src/test/resource/features/DeleteProduct.feature:5
Given user wants to delete the products # StepDefinitions.DeleteProductStep.user_wants_to_delete_the_produc
When User executes the endpoint url of the delete product page # StepDefinitions.DeleteProductStep.user_executes_the_endpoint_url_
Then user deletes the products. # StepDefinitions.DeleteProductStep.user_deletes_the_products()
Then user will validate the outcomes of status code is 200 # StepDefinitions.DeleteProductStep.user_will_validate_the_outcomes

1 Scenarios (1 passed)
4 Steps (4 passed)
0m8.624s
```


Postman for API endpoints:

Get Products:

The screenshot shows the Postman interface for a workspace named "Mphasis ATE Capstone Project ...". The selected collection is "Testing Framework for the Medicare ...". The environment is set to "QA Environment". The request is a GET request to the endpoint `{{(BASE_URL)}}/get-products`. The request body is empty. The test scripts are as follows:

```
1 pm.test("Status code is 200", function () {
2   pm.response.to.have.status(200);
3 });
4
5 pm.test("Response time is less than 200ms", function () {
6   pm.expect(pm.response.responseTime).to.be.below(200);
7 });
8 pm.test("Response matches these values", function () {
9   var jsonData = pm.response.json();
10  pm.expect(jsonData.code).to.eql(101);
11  pm.expect(jsonData.message).to.eql("12 Products Fetched Successfully.");
12 });
13
```

The test results show that all tests passed:

- PASS Status code is 200
- PASS Response time is less than 200ms
- PASS Response matches these values
- PASS Body contains these string

The status is 200 OK, the response time is 12 ms, and the size is 1.84 KB.

Get Registered Users:

The screenshot shows the Postman interface for a workspace named "Mphasis ATE Capstone Project ...". The selected collection is "Testing Framework for the Medicare ...". The environment is set to "QA Environment". The request is a GET request to the endpoint `{{(BASE_URL)}}/get-users`. The request body is empty. The test scripts are as follows:

```
1 pm.test("Status code is 200", function () {
2   pm.response.to.have.status(200);
3 });
4
5 pm.test("Response time is less than 200ms", function () {
6   pm.expect(pm.response.responseTime).to.be.below(200);
7 });
8 pm.test("Response matches these values", function () {
9   var jsonData = pm.response.json();
10  pm.expect(jsonData.code).to.eql(101);
11  pm.expect(jsonData.message).to.eql("4 Users Fetched Successfully.");
12 });
13
14 pm.test("Body contains these string", function () {
15
```

The test results show that all tests passed:

- PASS Status code is 200
- PASS Response time is less than 200ms
- PASS Response matches these values

The status is 200 OK, the response time is 22 ms, and the size is 543 B.

Add the product:

The screenshot shows the Postman interface for a project named "Mphasis ATE Capstone Project ...". The left sidebar displays a collection of requests under "Testing Framework for the Medicare ...". The main panel shows a POST request to "((BASE_URL))/add-product". The request body is a JSON object with the following fields: id (999), image (1.png), name (Disprin), category (medicine), brand (BZ Medico), status (1), and price (100). The response status is 200 OK, and the response body is a JSON object with the following fields: code (101), message (Disprin+ Updated Successfully.), and product (an object with id, image, name, category, brand, status, and price). The response is displayed in the "Test Results" tab.

```
1 {
2   "id": 999,
3   "image": "1.png",
4   "name": "Disprin",
5   "category": "medicine",
6   "brand": "BZ Medico",
7   "status": 1,
8   "price": 100
9 }
```

Body Cookies (1) Headers (6) Test Results (4/4) Status: 200 OK Time: 60 ms Size: 411 B Save as example

ALL Passed Skipped Failed

PASS Response time is less than 200ms

PASS Response matches these values

PASS Body contains these string

Update the product:

The screenshot shows the Postman interface for a project named "Mphasis ATE Capstone Project ...". The left sidebar displays a collection of requests under "Testing Framework for the Medicare ...". The main panel shows a PUT request to "((BASE_URL))/update-product". The request body is a JSON object with the following fields: id (999), image (2.png), name (Disprin+), category (medicine), brand (BZ Medico), status (1), and price (120). The response status is 200 OK, and the response body is a JSON object with the following fields: code (101), message (Disprin+ Updated Successfully.), and product (an object with id, image, name, category, brand, status, and price). The response is displayed in the "Test Results" tab.

```
1 {
2   "id": 999,
3   "image": "2.png",
4   "name": "Disprin+",
5   "category": "medicine",
6   "brand": "BZ Medico",
7   "status": 1,
8   "price": 120
9 }
```

Body Cookies (1) Headers (5) Test Results (4/4) Status: 200 OK Time: 14 ms Size: 339 B Save as example

Pretty Raw Preview Visualize JSON

```
1 {
2   "code": 101,
3   "message": "Disprin+ Updated Successfully.",
4   "product": {
5     "id": 999,
6     "image": "2.png",
7     "name": "Disprin+",
8     "category": "medicine",
9     "brand": "BZ Medico",
10    "status": 1,
11    "price": 120
12  }
13 }
```

Update status of product:

The screenshot shows the Postman interface for a PUT request. The URL is `{{BASE_URL}}/update-product-status`. The request body is a JSON object:

```
1 {
2   "id": 999,
3   "image": "2.png",
4   "name": "Disprin+",
5   "category": "medicine",
6   "brand": "BZ Medico",
7   "status": 0,
8   "price": 120
9 }
10
```

The response is a JSON object:

```
1 {
2   "code": 101,
3   "message": "Disprin+ Status Updated Successfully.",
4   "product": {
5     "id": 999,
6     "image": "2.png",
7     "name": "Disprin+",
8     "category": "medicine",
9     "brand": "BZ Medico",
10    "status": 0,
11    "price": 120
12 }
13
```

The status is 200 OK, Time: 18 ms, Size: 346 B.

Delete Product:

The screenshot shows the Postman interface for a DELETE request. The URL is `{{BASE_URL}}/delete-product?id=101`. The request body is empty. The response is a JSON object:

```
1 {
2   "code": 101,
3   "message": "Product with ID 101 Deleted Successfully."
4 }
```

The status is 200 OK, Time: 25 ms, Size: 230 B.

```
C:\Users\Dell\Documents\Mphasis ATE Capstone Medicare\Postman Test>newman run Testing_Framework_for_the_Medicare_Website.postman_collection.json -e QA_Environment.postman_environment.json
newman

Testing_Framework_for_the_Medicare_Website

→ Retrieve the list of all products in the store
GET http://localhost:9010/get-products [200 OK, 2.33kB, 82ms]
✓ Status code is 200
✓ Response time is less than 200ms
✓ Response matches these values
✓ Body contains these string

→ Retrieve the list of all registered users
GET http://localhost:9010/get-users [200 OK, 543B, 24ms]
✓ Status code is 200
✓ Response time is less than 200ms
✓ Response matches these values
✓ Body contains these string

→ Add the product
POST http://localhost:9010/add-product [200 OK, 411B, 29ms]
✓ Status code is 200
✓ Response time is less than 200ms
✓ Response matches these values
✓ Body contains these string

→ Delete the product
DELETE http://localhost:9010/delete-product?id=101 [200 OK, 230B, 25ms]
✓ Status code is 200
✓ Response time is less than 200ms
✓ Body matches string
✓ Response body values

→ Update the product
PUT http://localhost:9010/update-product [200 OK, 339B, 12ms]
✓ Status code is 200
✓ Response time is less than 200ms
✓ Response matches these values
✓ Body contains these string
```

```
✓ Response time is less than 200ms
✓ Body matches string
✓ Response body values

→ Update the product
PUT http://localhost:9010/update-product [200 OK, 339B, 12ms]
✓ Status code is 200
✓ Response time is less than 200ms
✓ Response matches these values
✓ Body contains these string

→ Update the product status
PUT http://localhost:9010/update-product-status [200 OK, 346B, 11ms]
✓ Status code is 200
✓ Response time is less than 200ms
✓ Response matches these values
✓ Body contains these string
```

	executed	failed
iterations	1	0
requests	6	0
test-scripts	6	0
prerequisite-scripts	0	0
assertions	24	0
total run duration: 945ms		
total data received: 3.14kB (approx)		
average response time: 30ms [min: 11ms, max: 82ms, s.d.: 23ms]		

