Capstone Project - DESCRIPTION / Git link

MEDICARE PROJECT

- **Browser-based end user testing using Selenium WebDriver**
  - This is functional testing
  - Should include: search medication products, products, login functionality, adding products to the cart, checkout, address.
- **Unit testing for back-end elements of the website using TestNG**
  - Similar for admin. Add create user, add create product, add create category.
- **API testing with Postman**
  - **API request: product list user / product list admin**
- Automating the whole testing process by a Jenkins job
  - MAVEN project + Newman

DESCRIPTION

This project requires end-to-end development of a comprehensive QA and test environment for a healthcare website. This QA and test environment should be inclusive of the following testing layers:

1. Browser-based end user testing using Selenium WebDriver
2. Unit testing for back-end elements of the website using TestNG
3. API testing with Postman on AWS cloud
4. Automating the whole testing process by a Jenkins job

The end-deliverables will be executable scripts and modules, which can be run on demand to test the web app.

Final Capstone Project

Website setup

1- We Imported the provided war file into Eclipse

2- Created and imported the Database from the medicare backend folder sql file: MySQL-DatabaseQueries.sql

3- Run the medicare website through Tomcat server y the database through MySql

Maven project

1- Create a Maven project

2- Repositories needed POM.xml

- Selenium-java
- TestNG
- Maven Compiler
- Surefire
- Rest assured (optional)

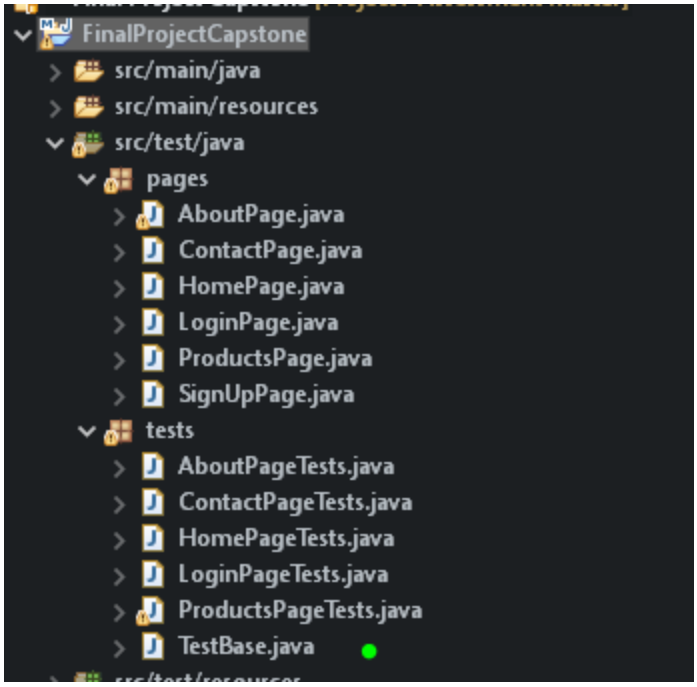
```
<build>
      <plugins>
          <plugin>
              <groupId>org.apache.maven.plugins</groupId>
              <artifactId>maven-compiler-plugin</artifactId>
              <version>3.8.1</version>
              <configuration>
                  <source>1.8</source>
                  <target>1.8</target>
              </configuration>
          </plugin>
          <plugin>
              <groupId>org.apache.maven.plugins</groupId>
              <artifactId>maven-surefire-plugin</artifactId>
              <version>2.22.0</version>
              <configuration>
                  <forkCount>0</forkCount>
                  <suiteXmlFiles>
                      <suiteXmlFile>testng.xml</suiteXmlFile>
                  </suiteXmlFiles>
              </configuration>
          </plugin>
      </plugins>
  </build>

  <dependencies>
      <dependency>
          <groupId>org.seleniumhq.selenium</groupId>
          <artifactId>selenium-java</artifactId>
          <version>3.141.59</version>
      </dependency>

      <dependency>
          <groupId>org.testng</groupId>
          <artifactId>testng</artifactId>
          <version>7.4.0</version>
          <scope>test</scope>
      </dependency>
  </dependencies>
```

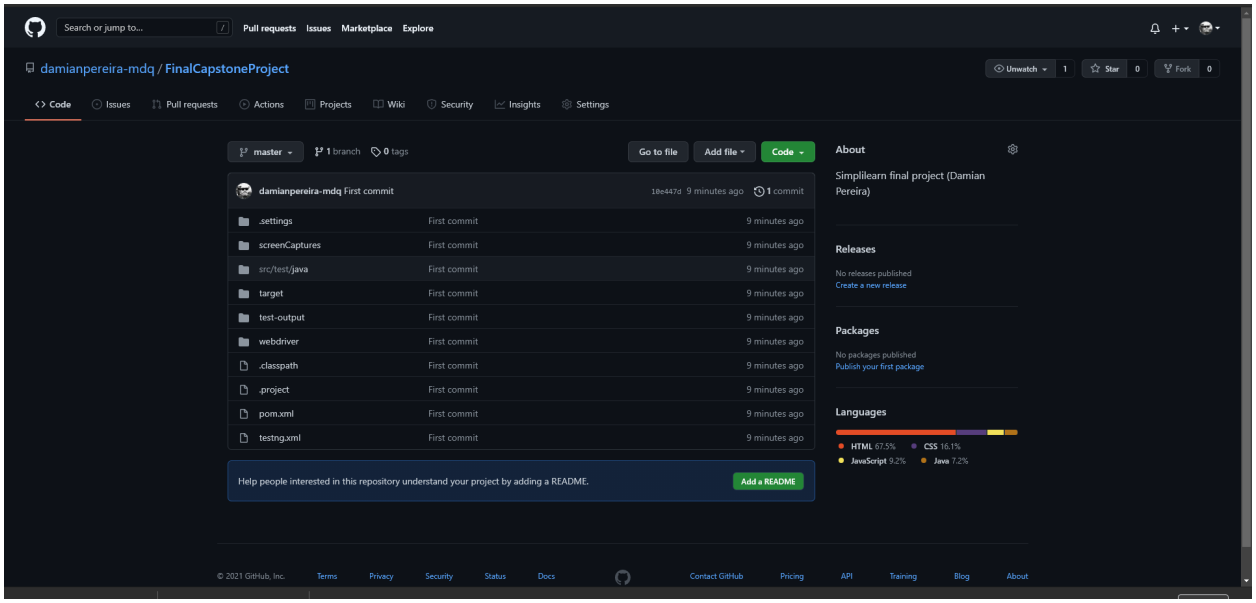
Page Object Model

We followed the POM, creating all Classes for pages functionalities with locators, and all the correspondent tests on different Classes. And also we used a Base Class with the Setup settings



GITHub Repository

https://github.com/damianpereira-mdq/FinalCapstoneProject.git



JENKINS Integration

We created a Job in jenkins that will run the MAVEN tests and also will execute a POSTman API test as requested, using the command prompt via Newman