IIHT

Web Automation Using Java and Selenium v0.1

Proficiency – PL2

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# Problem Statement

As a user needs to automate the webpage login and search for a product the same to be added in the cart and check out until the payment screen

Tool Chain

|  |  |  |
| --- | --- | --- |
| Competency | Skill | Skill Detail |
| Presentation | HTML /CSS / Javascript |  |
| Language | Java |  |
| Tools | Selenium, TestNG/Junit, Cucumber or any other test framework |  |
| Performance Tool | Apache Jmeter |  |
|  |  |  |
|  |  |  |

# NFT Skill set coverage

|  |
| --- |
| 50 NFT MC1 - Software Engg. Basics for NFT (PL2) - Selenium (PL2) - Python (PL2) |

# Business-Requirement:

Develop the front end and do testing of the application with below guidelines:

|  |  |  |
| --- | --- | --- |
| User  Story # | User Story Name | User Story |
| US\_01 | User need to automate the login page | Open the website, user click on Profile Icon and select Login/Signup link. Enter the Mobile number and followed by OTP to successful login <https://www.myntra.com/>   1. Login using valid phone number and generate OTP 2. Login using Invalid phone number and validate the error message |
| US\_02 | User need to add the item to a cart | As a user search for a product in the respective website and add a product to a cart |
| US\_03 | User need to checkout | As a user need to check out the product by providing Billing and Shipping address |
| US\_04 | User need to view payment screen | As a user need to view the payment screen post the address confirmation(No need to perform payment) |
| **End of use case** | | |

# Rubrics/Expected Deliverables

## Middleware

1. Use Python based scripts to develop the above given user stories.
2. Use necessary configurations in requirements.txt file
3. Use virtualenv for better coding and best practice
4. Package Structure for Project should is with proper naming conventions for package and beans.
5. Follow proper Naming Conventions

## Database (Products & Frameworks -> Database & Storage):

1. As an application developer:
   1. Add the registration users to the database and fetch the details whenever needed
   2. One can use local DB – Oracle or MySQL with JDBC driver

## Testing – Automation Test

* + - 1. Implement automation using Selenium web driver and Page objects
      2. Perform the load test using Apache Jmeter and find the response time
      3. Perform the assertion for response code and implement the graph
      4. Perform security testing for the application using cloud App Scan

# Frontend

* + - 1. Develop the front end for all user stories.
      2. Implement using HTML, CSS, JS
      3. Implement all the Front-End validation rules
      4. Proper naming conventions and folder structures