IIHT

Software Engg Basic – Apache Jmeter – Neo Load v0.1

Proficiency – PL3

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# Problem Statement

As a user needs to automate the web page with functional and Non-Functional Testing . Perform the functional testing using Selenium web driver and for load testing user need to perform the response for 10, 15, 25 and 100 users

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, NeoLoad |  |
|  |  |  |
|  |  |  |

# 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 | Register user in Amazon | As a user need to register a user in amazon.in   1. Enter Your Name 2. Enter Mobile Number for Country India 3. Enter Email(optional) 4. Enter Password 5. Click on Continue button |
| **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. Create a Test Plan in Jmeter
      2. Add config elements like HTTP Request Defaults and other listeners
      3. Add Thread users to perform varied no. Of users 10, 15, 50 and 100
      4. Add Graph to a plan and observe the response time
      5. Perform assertion using Apache Jmeter
      6. Record Design Workflow activity using Neo Load tool
      7. Add correlation and variable managers on Neo Load
      8. Add assertions using Neo Load
      9. Execute the workflow which recorded using Neo Load

# 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