**HACKATHON DOCUMENTATION**

***TOPIC- Display BookShelves***

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| **TEAM MEMBERS** | |
| **NAME** | **COHORT ID** |
| **SUMAN SAHOO** | QEA21QE032 |
| **ANCHAL SATPATHY** | QEA21QE032 |
| **SHWETA VERMA** | QEA21QE032 |
| **PHANI PAWAN** | QEA21QE032 |
| **AKHILESH IYENGAR** | QEA21QE032 |

**1.WEBSITE:**

<https://www.urbanladder.com/>

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**2.TOOLS & TECHNOLOGY USED:**

1. ***Selenium with Java in Eclipse***: Selenium is a portable framework for testing web applications. Selenium provides a playback tool for authoring functional tests. Developed using Java, the Eclipse platform can be used to develop rich client applications, integrated development environments and other tools. Eclipse can be used as an IDE for any programming language for which a plug-in is available***.***

1. ***TestNG***: TestNG (Test Next Generation) is the testing framework. TestNG is inspired from JUnit and NUnit, but it has a new functionality that makes this framework more powerful and easier. TestNG is designed in such a way that it covers all the categories of tests comprising unit, functional and integration.

1. ***Maven***: Maven is a build automation tool used primarily for Java projects. Maven can also be used to build and manage projects written in C#, Ruby, Scala, and other languages. Maven is built using a pluginbased architecture that allows it to make use of any application controllable through standard input.

1. ***POM with POI***: Page Object Model (POM) is a design pattern, popularly used in test automation that creates Object Repository for web UI elements. The advantage of the model is that it reduces code duplication and improves test maintenance. Under this model, for each web page in the application, there should be a corresponding Page Class. This Page class will identify the WebElements of that web page and also contains Page methods which perform operations on those WebElements.Apache POI, a project run by the Apache Software Foundation, and previously a sub-project of the Jakarta Project, provides pure Java libraries for reading and writing files in Microsoft Office formats, such as Word, PowerPoint and Excel.

1. ***Jenkins***: Jenkins is a free and open source automation server. It helps automate the parts of software development related to building, testing, and deploying, facilitating continuous integration and continuous delivery. It is a server-based system that runs in servlet containers such as Apache Tomcat.

**3.WORK DONE:**

* 1. The Code is written in JAVA and is automated in different browsers with the help of Selenium. The project and dependencies are managed with the help of Maven.
  2. POM is used to create classes for each page therefore reducing usage of same code for various objects.

* 1. Input data is obtained from properties file and from excel sheet with the help of Apache POI.
  2. Jenkins is used for continuous integration of various versions of the code.

**4. REQUIREMENTS AND EXECUTION STEPS:**

**1.Display the name & price of first 3 Bookshelves below Rs. 15000, with Storage type as open & exclude out of stock**

* + Select Bookshelves icon.
  + Set price value below Rs.15000.
  + Select Storage Type value as open from the dropdown menu.
  + Select checkbox “exclude out of stock” .
  + Extract first 3 bookshelves and write them in property file.

**2. From Collections, retrieve all sub-menu items under Being-At-home and store in a List; Display the same**

* Mouseover to the Collection tab.
* Extract the displayed sub-menu and write them in property file.

**3.Gift cards - choose "Birthday/Anniversary"; fill customize the gift card; fill from to details with any one input invalid (example: email); Capture & display the error message**

* + Select the Gift Card tab.
  + Choose Birthday/Anniversary.
  + Fill the form given under “customize your gift card”.
  + Click next button.
  + Fill the next form with one invalid detail.
  + Capture the error message and display the same.

**SCREENSHOTS**

Graphical user interface

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Graphical user interface, text

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

Graphical user interface

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