**AUTOMATIONFEASIBILITYREPORT**

URBAN LADDER AUTOMATION SUITE

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| --- | --- | --- | --- |
| Details | Prepared By | Reviewed By | Approved By |
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| Role | Quality Assurance Interns | Batch Trainer |  |

Table: Group Description

# Tools and Frameworks Used

* BDD with Cucumber
* TestNG
* Selenium WebDriver
* Apache POI / XML for Data-Driven Testing
* Extent Reports / Allure for Reporting

# Automation Feasibility:

The first step in this process needs to be the feasibility analysis. Automation Feasibility analysis in automation testing refers to a checklist on basis of which we can decide whether we should proceed with the automation of the test cases or not.

## Automation Feasibility Checklist (AFC)

Automation Feasibility Checklist is used to identify whether the manual test case is feasible for automation or not. The following are the criteria to determine the automation feasibility of the test cases:

### Essential Criteria:

* Dependencies/Pre-requisites
* Detailed Test steps
* Test Data availability
* Expected results
* Traceability

### Optional Criteria:

* Subject Matter Expert’s (SME) support
* Duplication of test steps
* Availability of multiple sets of data and Snapshot of AFC

### Benefits of Automation Feasibility Checklist:

* Reduces the Manual execution effort.
* Improves Automation efficiency.
* Helps to derive effective Manual test cases.
* Control and avoid risks in Automation.

# Automation Feasibility Checklist Model:

|  |  |  |
| --- | --- | --- |
| S.NO | READINESS CHECK | (YES/NO) |
| 1 | Product Stable? | YES |
| 2 | Any Planned enhancement in near future? | NO |
| 3 | Won't any bug fixes impact major functionalities? | YES |
| 4 | Are the test condition and precondition detailed? | YES |
| 5 | Test case and test data analysis done? | YES |

# Feature-wise Automation Feasibility

|  |  |  |
| --- | --- | --- |
| Feature | Scenario | Status |
| Add to cart | Add an item to cart and validate its name and price | Completed |
| Auto Suggestions | Validate the working of Auto Suggestion | Completed |
| Being At Home | Retrieve list of items under Being at home | Completed |
| BookShelves | Validate the working of filters and retrieve items | Completed |
| Cities | Retrieve list of stores cities | Completed |
| Help FAQ | Extract all visible FAQs | Completed |
| Login | Attempt sign-in with invalid and valid credentials | Completed |
| Social Media | Validates the working of social media links | Completed |
| Sofas and Recliners | Get all items under sofas and recliners menu | Completed |
| Track Order | Attempt to track order with invalid order id and capture error message | Completed |

This table focuses on the total workflows in our project Urban Ladder. It gives the details of the total workflows in the project and the status of the workflows.

# Automation Feasibility Tables for Urban Ladder Workflows

## Automation Feasibility for Requirement – 1: Add an item to cart and validate its name and price

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) |
| 1 | Navigate to urban ladder homepage | 1 | YES / YES |
| 2 | The user searches for "chair" | 1 | YES / YES |
| 3 | Click the first item and switches to new window | 1 | YES / YES |
| 4 | Add the item to cart | 1 | YES / YES |
| 5 | Validate item name and Display item Price | 1 | YES / YES |

This workflow focuses on validating the item in cart and display item price. It validates the item and extraction of item price.

## Automation Feasibility For Requirement – 2: Auto Suggestions

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) |
| 1 | Navigate to Urban Ladder homepage | 1 | YES / YES |
| 2 | Close the popup | 1 | YES / YES |
| 3 | Enter “bed” into the search field. | 1 | YES / YES |
| 4 | Retrieve all the auto Suggestions. | 1 | YES / YES |
| 5 | Write all the texts to an excel sheet. | 1 | YES / YES |

This workflow validates the working of auto suggestion on Urban Ladder.

## Automation Feasibility For Requirement – 3: Being At Home

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) |
| 1 | Navigate to UrbanLadder homepage | 1 | YES / YES |
| 2 | The user searches for "being at home" | 1 | YES / YES |
| 3 | Redirected to being at home | 1 | YES / YES |
| 4 | Click category options | 1 | YES / YES |
| 5 | The user see list of category | 1 | YES / YES |
| 6 | Retrieve and display all categories | 1 | YES/YES |

This workflow retrieves all results that comes under being at home categories.

## Automation Feasibility for Requirement – 4: Bookshelves

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) |
| 1 | Navigate to Urban Ladder homepage | 1 | YES / YES |
| 2 | Goto bookshelves section. | 1 | YES / YES |
| 3 | Set price filter under 15,000. | 1 | YES / YES |
| 4 | Select storage type as open and filter to show only In stock items. | 1 | YES / YES |
| 5 | Fetch top 6 products with price. | 1 | YES / YES |

This workflow validates the working of filters and search results and retrieves items.

## Automation Feasibility for Requirement – 5: Cities

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) |
| 1 | Navigate to Urbanladder homepage | 1 | YES / YES |
| 2 | Hover over Store Tab | 1 | YES / YES |
| 3 | Retrieve and display store state name | 1 | YES / YES |

This workflow retrieves stores cities. It verifies the availability of stores in cities options on the website.

## Automation Feasibility for Requirement – 6: Help FAQs

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) |
| 1 | Navigate to Urban Ladder help section | 1 | YES / YES |
| 2 | Expand all available help questions. | 1 | YES / YES |
| 3 | Extract all visible FAQs and save them into excel. | 1 | YES / YES |

This workflow extracts Help page FAQs on Urban Ladder.

## Automation Feasibility for Requirement – 7: Login With Invalid and Valid Credentials

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) | |
| 1 | Navigate to Urban ladder homepage | 1 | | YES / YES |
| 2 | Click on Sign In | 1 | | YES / YES |
| 3 | Enter invalid and valid id and password | 1 | | YES / YES |
| 4 | Click Sign In and display error | 1 | | YES / YES |

This workflow attempts to Login with invalid and valid credentials. It checks the robustness of the authentication system and its ability to handle incorrect inputs.

## Automation Feasibility for Requirement – 8: Social Media Links

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) |
| 1 | Navigate to Urban Ladder homepage. | 1 | YES / YES |
| 2 | Go to the footer section where the social media icons should be visible. | 1 | YES / YES |
| 3 | Click on each icon and redirect to the platform. | 1 | YES / YES |
| 4 | URLs printed into the console and written to excel. | 1 | YES / YES |

This workflow verifies the presence and functionality of social media links in the Urban Ladder website.

## Automation Feasibility for Requirement – 9: Get all items under sofas and recliners menu

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) |
| 1 | Navigate to Urbanladder homepage | 1 | YES / YES |
| 2 | Hover over Sofas and recliners | 1 | YES / YES |
| 3 | Retrieve and display all category | 1 | YES / YES |

This workflow focuses on retrieving all categories under sofas and recliners.

## Automation Feasibility for Requirement – 10: Track Order

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) |
| 1 | Navigate to Urban Ladder homepage | 1 | YES / YES |
| 2 | Click on track order and redirected to new page. | 1 | YES / YES |
| 3 | Enter the order no and phone no and get the response. | 1 | YES / YES |

This workflow tests the Track Order functionality. It enters the order number and phone number and gets the response.

# Automation Vs Manual Testing

|  |  |  |
| --- | --- | --- |
| TEST PREFERENCES | TO AUTOMATE | NOT TO AUTOMATE |
| Are the requirements stable? | YES | YES |
| Does detailed test cases with predictable results available? | YES | YES |
| Tedious and repetitive | YES | YES |
| Non-Repetitive or Ad-hoc tasks | NO | NO |
| High Regression rate and changing | YES | YES |
| Low Regression rate and constant | NO | NO |