**AUTOMATIONFEASIBILITYREPORT**

Bookshelves Automation Hackathon

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|  | Prepared By | Reviewed By | Approved By |
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**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 that 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 FEASIBILIY 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 |

**AUTOMATION FEASEBILITY FOR REQUIREMENT – 1:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.NO** | **FUNCTIONALITY NAME** | **TEST CASE FOR PARTICULAR FUNCTIONALITY** | **TEST ENVIRONEMENT AVAILABLE FOR AUTOMATION (YES/NO)** | **POSSIBILITY FOR AUTOMATION (YES/NO)** |
| 1 | Accessing the web URL (*https://www.urbanladder.com/*) | 1 | YES | YES |
| 2 | Entering “BookShelves”  in search tab | 1 | YES | YES |
| 3 | Clicking on search icon | 1 | YES | YES |
| 4 | Displaying the page containing “BookShelves” search results | 1 | YES | YES |
| 5 | Mouse hover the category dropdown and selecting Bookshelves check box | 1 | YES | YES |
| 6 | Mouse hover the price dropdown and setting maximum value slider to 15065 | 1 | YES | YES |
| 7 | Mouse hover the Storage dropdown and click the open check box. | 1 | YES | YES |
| 8 | Mouse hover the sortBy and select Recommended. | 1 | YES | YES |
| 9 | Displaying of result according to applied filters | 1 | YES | YES |
| 10 | Back to parent window | 1 | YES | YES |

**AUTOMATION FEASEBILITY FOR REQUIREMENT – 2:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.NO** | **FUNCTIONALITY NAME** | **TEST CASE FOR PARTICULAR FUNCTIONALITY** | **TEST ENVIRONEMENT AVAILABLE FOR AUTOMATION (YES/NO)** | **POSSIBILITY FOR AUTOMATION (YES/NO)** |
| 1 | Accessing the web URL (*https://www.urbanladder.com/*) | 1 | YES | YES |
| 2 | Mouse hover collections Menu | 1 | YES | YES |
| 3 | Display of submenu items under collections menu | 1 | YES | YES |

**AUTOMATION FEASEBILITY FOR REQUIREMENT – 3:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.NO** | **FUNCTIONALITY NAME** | **TEST CASE FOR PARTICULAR FUNCTIONALITY** | **TEST ENVIRONEMENT AVAILABLE FOR AUTOMATION (YES/NO)** | **POSSIBILITY FOR AUTOMATION (YES/NO)** |
| 1 | Accessing the web URL (https://www.coursera.org/) | 1 | YES | YES |
| 2 | Clicking the GiftCard hyperlink. | 1 | YES | YES |
| 3 | Scrolling down and clicking the BirthDay/Anniversary | 1 | YES | YES |
| 4 | Entering amount in the amount text box | 1 | YES | YES |
| 5 | Clicking on Month dropdown and selecting the required month from the list. | 1 | YES | YES |
| 6 | Clicking on Date dropdown and selecting the required date from the list. | 1 | YES | YES |
| 7 | Clicking on Next Button. | 1 | YES | YES |
| 8 | Entering values in the input text box fields | 1 | YES | YES |
| 9 | Clicking on 'CONFIRM' Button | 1 | YES | YES |
| 10 | Clicking on 'PROCEED TO PAYMENT' Button. | 1 | YES | YES |
| 11 | Display of the resultant page | 1 | YES | YES |
| 12 | Back to parent window | 1 | YES | YES |

**AUTOMATION FEASEBILITY FOR REQUIREMENT – 4:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.NO** | **FUNCTIONALITY NAME** | **TEST CASE FOR PARTICULAR FUNCTIONALITY** | **TEST ENVIRONEMENT AVAILABLE FOR AUTOMATION (YES/NO)** | **POSSIBILITY FOR AUTOMATION (YES/NO)** |
| 1 | Accessing the web URL (*https://www.urbanladder.com/*) | 1 | YES | YES |
| 2 | Entering “study chairs”  in search tab | 1 | YES | YES |
| 3 | Clicking on search icon | 1 | YES | YES |
| 4 | Displaying the page containing “study chairs” search results | 1 | YES | YES |
| 5 | Mouse hover the sortBy and selecting Recommended. | 1 | YES | YES |
| 6 | Displaying of result according to applied filters | 1 | YES | YES |
| 7 | Back to parent window | 1 | YES | YES |

**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 |