**AUTOMATIONFEASIBILITYREPORT**

WEB DEVELOPMENT COURSES (WBC) PROJECT

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|  | Prepared By | Reviewed By | Approved By |
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| Role | Interns | Batch Trainer |  |

**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.coursera.org/) | 1 | YES | YES |
| 2 | Entering “Web Development”  in search tab | 1 | YES | YES |
| 3 | Checking for auto-suggestion value | 1 | YES | YES |
| 4 | Clicking on search icon | 1 | YES | YES |
| 5 | Displaying the page containing “Web Development” courses | 1 | YES | YES |
| 6 | Clicking on “Language” filter | 1 | YES | YES |
| 7 | Selecting “English” option | 1 | YES | YES |
| 8 | Clicking on “Level” filter | 1 | YES | YES |
| 9 | Clicking on a course | 1 | YES | YES |
| 10 | Displaying of result page | 1 | YES | YES |
| 11 | 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 | Clicking on “Explore” dropdown. | 1 | YES | YES |
| 2 | Clicking on “Language Learning” course. | 1 | YES | YES |
| 3 | Displaying of result page. | 1 | YES | YES |
| 4 | Clicking on “Language” filter. | 1 | YES | YES |
| 5 | Clicking on “Level” filter. | 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 of "For Enterprise" icon | 1 | YES | YES |
| 3 | Accessing of "Product" Dropdown | 1 | YES | YES |
| 4 | Clicking the "Coursera for Campus" icon | 1 | YES | YES |
| 5 | Filling all the mandatory fields in the "Ready to transform your campus?" Class | 1 | YES | YES |
| 6 | Clicking the "Connect with us" button | 1 | YES | YES |
| 7 | Displaying the result page | 1 | YES | YES |
| 8 | Proper closing of the browser | 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 |