**AUTOMATIONFEASIBILITYREPORT**

IDENTIFY COURSES PROJECT

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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.coursera.org/) | 1 | YES | YES |
| 2 | Entering  “Web Development”  in search tab | 1 | YES | YES |
| 3 | Clicking on search icon | 1 | YES | YES |
| 4 | Displaying the page containing  “Web Development” courses | 1 | YES | YES |
| 5 | Clicking on “English” filter under language section | 1 | YES | YES |
| 6 | Clicking on “Beginner” filter under level section | 1 | YES | YES |
| 7 | Clicking on a first course | 1 | YES | YES |
| 8 | Navigate to new window of first course | 1 | YES | YES |
| 9 | Displaying course details in result page | 1 | YES | YES |
| 10 | Navigate back to parent window | 1 | YES | YES |
| 11 | Clicking on a second course | 1 | YES | YES |
| 12 | Navigate to new window of second course | 1 | YES | YES |
| 13 | Displaying course details in result page | 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 | Clicking on “All Language Course” under popular skills. | 1 | YES | YES |
| 4 | Displaying of result page. | 1 | YES | YES |
| 5 | Clicking on “Language” filter. | 1 | YES | YES |
| 6 | Display all languages | 1 | YES | YES |
| 7 | Go to “Level” filter. | 1 | YES | YES |
| 8 | Display all levels | 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 on  "For Business " | 1 | YES | YES |
| 3 | Clicking on “Contact Sales” | 1 | YES | YES |
| 4 | Fill the form with invalid  email-id | 1 | YES | YES |
| 5 | Display error message | 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 |