**AUTOMATIONFEASIBILITYREPORT**

IDENTIFY COURSES - COURSERA

|  |  |  |  |
| --- | --- | --- | --- |
|  | Prepared By | Reviewed By | Approved By |
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Automation Feasibility Report

# **AUTOMATION FEASIBILITY**

The first step in this process is feasibility analysis. Automation Feasibility in automation testing refers to a checklist that helps determine whether manual test cases are suitable for automation.

## **Automation Feasibility Checklist (AFC)**

Essential Criteria:

- Dependencies / Pre-requisites

- Detailed Test Steps

- Test Data Availability

- Expected Results

- Traceability

Optional Criteria:

- Subject Matter Expert (SME) Support

- Duplication of Test Steps

- Availability of Multiple Sets of Data

- Snapshot of AFC

## **Benefits of Automation Feasibility Checklist**

- Reduces manual execution effort

- Improves automation efficiency

- Helps derive effective manual test cases

- Controls and avoids risks in automation

## **AUTOMATION FEASIBILITY CHECKLIST MODEL**

|  |  |
| --- | --- |
| READINESS CHECK | YES/NO |
| Product Stable? | YES |
| Any Planned Enhancement in the Near Future? | NO |
| Won't Any Bug Fixes Impact Major Functionalities? | YES |
| Are the Test Conditions and Preconditions Detailed? | YES |
| Test Case and Test Data Analysis Done? | YES |

## **AUTOMATION FEASIBILITY FOR REQUIREMENT – 1**

|  |  |  |  |
| --- | --- | --- | --- |
| FUNCTIONALITY NAME | TEST CASE COUNT | TEST ENVIRONMENT AVAILABLE | POSSIBILITY FOR AUTOMATION |
| Search for “Web Development” | 1 | YES | YES |
| Select from auto-suggestion | 1 | YES | YES |
| Apply “English” filter | 1 | YES | YES |
| Apply “Beginner” filter | 1 | YES | YES |
| Scrape first two courses | 1 | YES | YES |
| Print Name, Rating, Duration | 1 | YES | YES |

## **AUTOMATION FEASIBILITY FOR REQUIREMENT – 2**

|  |  |  |  |
| --- | --- | --- | --- |
| FUNCTIONALITY NAME | TEST CASE COUNT | TEST ENVIRONMENT AVAILABLE | POSSIBILITY FOR AUTOMATION |
| Access Language Learning section | 1 | YES | YES |
| Extract all languages and levels | 1 | YES | YES |
| Count courses per language and level | 1 | YES | YES |

## **AUTOMATION FEASIBILITY FOR REQUIREMENT – 3**

|  |  |  |  |
| --- | --- | --- | --- |
| FUNCTIONALITY NAME | TEST CASE COUNT | TEST ENVIRONMENT AVAILABLE | POSSIBILITY FOR AUTOMATION |
| Navigate to “For Enterprise” | 1 | YES | YES |
| Access “Coursera for Campus” | 1 | YES | YES |
| Fill form with invalid input | 1 | YES | YES |
| Capture and print error message | 1 | YES | YES |

## **AUTOMATION FEASIBILITY FOR REQUIREMENT – 4**

|  |  |  |  |
| --- | --- | --- | --- |
| FUNCTIONALITY NAME | TEST CASE COUNT | TEST ENVIRONMENT AVAILABLE | POSSIBILITY FOR AUTOMATION |
| Navigate to “Individual” → “Partners” → “India” | 1 | YES | YES |
| Extract Logo, Name, Link | 1 | YES | YES |

## **AUTOMATION FEASIBILITY FOR REQUIREMENT – 5**

|  |  |  |  |
| --- | --- | --- | --- |
| FUNCTIONALITY NAME | TEST CASE COUNT | TEST ENVIRONMENT AVAILABLE | POSSIBILITY FOR AUTOMATION |
| Access Online Degree section | 1 | YES | YES |
| Apply multiple filters (Program Level) | 1 | YES | YES |
| Print total number of filtered results | 1 | YES | YES |

## **AUTOMATION FEASIBILITY FOR REQUIREMENT – 6**

|  |  |  |  |
| --- | --- | --- | --- |
| FUNCTIONALITY NAME | TEST CASE COUNT | TEST ENVIRONMENT AVAILABLE | POSSIBILITY FOR AUTOMATION |
| Navigate to “For Business” → “For Teams” | 1 | YES | YES |
| Fill user count and billing cycle | 1 | YES | YES |
| Continue and capture Purchase Summary Table | 1 | YES | YES |

## **AUTOMATION FEASIBILITY FOR REQUIREMENT – 7**

|  |  |  |  |
| --- | --- | --- | --- |
| FUNCTIONALITY NAME | TEST CASE COUNT | TEST ENVIRONMENT AVAILABLE | POSSIBILITY FOR AUTOMATION |
| Click on first course result | 1 | YES | YES |
| Extract Mentor Name, Rating, Level, etc. | 1 | YES | YES |

## **AUTOMATION FEASIBILITY FOR REQUIREMENT – 8**

|  |  |  |  |
| --- | --- | --- | --- |
| FUNCTIONALITY NAME | TEST CASE COUNT | TEST ENVIRONMENT AVAILABLE | POSSIBILITY FOR AUTOMATION |
| Navigate to “For Government” → “Contact Sales” | 1 | YES | YES |
| Fill form with random valid data | 1 | YES | YES |
| Submit and print confirmation message | 1 | YES | YES |

## **AUTOMATION FEASIBILITY FOR REQUIREMENT – 9**

|  |  |  |  |
| --- | --- | --- | --- |
| FUNCTIONALITY NAME | TEST CASE COUNT | TEST ENVIRONMENT AVAILABLE | POSSIBILITY FOR AUTOMATION |
| Scroll to footer | 1 | YES | YES |
| Extract all skill categories | 1 | YES | YES |

## **AUTOMATION FEASIBILITY FOR REQUIREMENT – 10**

|  |  |  |  |
| --- | --- | --- | --- |
| FUNCTIONALITY NAME | TEST CASE COUNT | TEST ENVIRONMENT AVAILABLE | POSSIBILITY FOR AUTOMATION |
| Click Apple logo → Take screenshot | 1 | YES | YES |
| Click Google Play logo → Take screenshot | 1 | YES | YES |
| Save both screenshots to folder | 1 | YES | YES |

## **AUTOMATION FEASIBILITY FOR REQUIREMENT – 11**

|  |  |  |  |
| --- | --- | --- | --- |
| FUNCTIONALITY NAME | TEST CASE COUNT | TEST ENVIRONMENT AVAILABLE | POSSIBILITY FOR AUTOMATION |
| Open social media links from footer | 1 | YES | YES |
| Store and validate titles and URLs in Excel | 1 | YES | YES |

## **AUTOMATION FEASIBILITY FOR REQUIREMENT – 12**

|  |  |  |  |
| --- | --- | --- | --- |
| FUNCTIONALITY NAME | TEST CASE COUNT | TEST ENVIRONMENT AVAILABLE | POSSIBILITY FOR AUTOMATION |
| Navigate to Careers → Explore Opportunities | 1 | YES | YES |
| Select India from dropdown | 1 | YES | YES |
| Store job listings in Excel | 1 | YES | YES |

## **AUTOMATION VS MANUAL TESTING**

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