**AUTOMATIONFEASIBILITYREPORT**

PRACTO AUTOMATION PROJECT

|  |  |  |  |
| --- | --- | --- | --- |
| Details | Prepared By | Reviewed By | Approved By |
| Name | CodeBengal | P Devathilagai | P Devathilagai |
| 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.
* Improving 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 |

## Automation Feasibility Tables – Practo Workflows

## Requirement 1: Hospital Search Functionality

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) |
| 1 | Navigate to Practo Home Page | 1 | YES / YES |
| 2 | Load hospital search data from Excel | 1 | YES / YES |
| 3 | Enter city and search location from sheet TC001 | 1 | YES / YES |
| 4 | Retrieve total number of search results | 1 | YES / YES |
| 5 | Fetch hospital names open at specified time with rating | 1 | YES / YES |
| 6 | Write hospital names to Excel | 1 | YES / YES |

This workflow focuses on validating the search functionality for city-wise hospitals including rating and availability.

## Automation Feasibility Requirement 2: Retrieve Nearby Doctors

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) |
| 1 | Launch Practo application | 1 | YES / YES |
| 2 | Search doctors by location and type from Excel | 1 | YES / YES |
| 3 | Save doctor names to output sheet TC002\_Output | 1 | YES / YES |

This workflow automates filtering and recording of nearby medical professionals.

## Automation Feasibility For Requirement – 3: Video Consultancy Types and Rates

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) |
| 1 | Click "Video Consultation" button | 1 | YES / YES |
| 2 | Scroll through consultancy options | 1 | YES / YES |
| 3 | Retrieve consultation types and pricing | 1 | YES / YES |

This workflow extracts pricing details for telehealth video consultations.

## Automation Feasibility for Requirement – 4: Login Authentication via Excel

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) | |
| 1 | Retrieve login credentials from Excel | | 1 | | YES / YES |
| 2 | |  |  | | --- | --- | | Attempt login with multiple credentials |  | | | 1 | | YES / YES |

This workflow validates Ensures login robustness using varied test inputs.

## Automation Feasibility for Requirement – 5: Health Articles Search and Storage

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) |
| 1 | Navigate to Practo Home Page | 1 | YES / YES |
| 2 | |  |  | | --- | --- | | Load article search term from Excel sheet TC005 |  | | 1 | YES / YES |
| 3 | Open "Read Articles" section | 1 | YES / YES |
| 4 | Switch to new article tab | 1 | YES / YES |
| 5 | Search articles and extract title-author pairs | 1 | YES / YES |
| 6 | Write extracted data to Excel sheet TC005\_Output | 1 | YES / YES |

This workflow automates knowledge extraction from Practo’s health content library.

## Automation Feasibility for Requirement – 6: Social Media Links Verification

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) |
| 1 | Scroll to footer section | 1 | YES / YES |
| 2 | Verify and screenshot Facebook link | 1 | YES / YES |
| 3 | Verify and screenshot Twitter link | 1 | YES / YES |
| 4 | Verify and screenshot LinkedIn link | 1 | YES / YES |
| 5 | Verify and screenshot YouTube link | 1 | YES / YES |
| 6 | Verify and screenshot GitHub link | 1 | YES / YES |

This workflow ensures external navigation integrity and social channel accessibility.

## Automation Feasibility for Requirement – 7: CAPTCHA Screenshot After Form Submission

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) | |
| 1 | Navigate to Home and click "For Corporates" | 1 | | YES / YES |
| 2 | Access "Health and Wellness" section | 1 | | YES / YES |
| 3 | Load demo request form | 1 | | YES / YES |
| 4 | Fill form using XML values | 1 | | YES / YES |
| 5 | Submit the form and trigger CAPTCHA screen | 1 | | YES / YES |
| 6 | Capture and save CAPTCHA screenshot | 1 | | YES / YES |

This workflow attempts automates form validation and CAPTCHA display handling.

## Automation Feasibility for Requirement – 8: Top Cities Retrieval for Lab Tests

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | FUNCTIONALITY NAME | TEST CASE FOR PARTICULAR FUNCTIONALITY | TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO) / POSSIBILITY FOR AUTOMATION (YES/NO) |
| 1 | Login with valid credentials | 1 | YES / YES |
| 2 | Navigate to "Book Tests" section | 1 | YES / YES |
| 3 | Retrieve and save Top Cities list to Excel | 1 | YES / YES |

This workflow confirms test booking reachability by extracting popular city listings.

# 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 |