**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://emicalculator.net) | 1 | YES | YES |
| 2 | Clicking on Car loan | 1 | YES | YES |
| 3 | Entering the car loan amount | 1 | YES | YES |
| 4 | Entering the Interest rate | 1 | YES | YES |
| 5 | Entering the loan tenure | 1 | YES | YES |
| 6 | Displaying the interest and principal amount | 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 | Navigating to Home Loan EMI | 1 | YES | YES |
| 2 | Fill relevant details | 1 | YES | YES |
| 3 | Extract the data from year on year | 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 | Navigating to loan calculator | 1 | YES | YES |
| 2 | Clicking on loan amount calculator | 1 | YES | YES |
| 3 | Entering the loan amount in the input box and validating the slider to be moved to same value | 1 | YES | YES |
| 4 | Entering the Interest rate in the input box and validating the slider to be moved to same value | 1 | YES | YES |
| 5 | Entering the loan tenure in the input box and validating the slider to be moved to same value | 1 | YES | YES |
| 6 | Entering the fee and charges in the input box and validating the slider to be moved to same value | 1 | YES | YES |

**AUTOMATION FEASEBILITY FOR REQUIREMENT – 4:**

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| --- | --- | --- | --- | --- |
| **S.NO** | **FUNCTIONALITY NAME** | **TEST CASE FOR PARTICULAR FUNCTIONALITY** | **TEST ENVIRONEMENT AVAILABLE FOR AUTOMATION (YES/NO)** | **POSSIBILITY FOR AUTOMATION (YES/NO)** |
| 1 | Navigating to loan calculator | 1 | YES | YES |
| 2 | Clicking on EMI calculator | 1 | YES | YES |
| 3 | Entering the loan amount in the input box and validating the slider to be moved to same value | 1 | YES | YES |
| 4 | Entering the interest rate in the input box and validating the slider to be moved to same value | 1 | YES | YES |
| 5 | Entering the loan tenure in the input box and validating the slider to be moved to same value | 1 | YES | YES |
| 6 | Entering the fee and charges in the input box and validating the slider to be moved to same value | 1 | YES | YES |

**AUTOMATION FEASEBILITY FOR REQUIREMENT – 5:**

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| --- | --- | --- | --- | --- |
| **S.NO** | **FUNCTIONALITY NAME** | **TEST CASE FOR PARTICULAR FUNCTIONALITY** | **TEST ENVIRONEMENT AVAILABLE FOR AUTOMATION (YES/NO)** | **POSSIBILITY FOR AUTOMATION (YES/NO)** |
| 1 | Navigating to loan calculator | 1 | YES | YES |
| 2 | Clicking on loan tenure calculator | 1 | YES | YES |
| 3 | Entering the loan amount in the input box and validating the slider to be moved to same value | 1 | YES | YES |
| 4 | Entering the interest rate in the input box and validating the slider to be moved to same value | 1 | YES | YES |
| 5 | Entering the EMI in the input box and validating the slider to be moved to same value | 1 | YES | YES |
| 6 | Entering the fee and charges in the input box and validating the slider to be moved to same value | 1 | YES | YES |

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| |  | | --- | | **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 | | |