**AUTOMATIONFEASIBILITYREPORT**

CALCULATE TRIP COST

|  |  |  |  |
| --- | --- | --- | --- |
|  | Prepared By | Reviewed By | Approved By |
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| Role | Programmer Trainee | 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 the 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/Prerequisites

· 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 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 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 FOR REQUIREMENT – 1:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.NO** | **FUNCTIONALITY NAME** | **TEST CASE FOR PARTICULAR FUNCTIONALITY** | **TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO)** | **POSSIBILITY FOR AUTOMATION (YES/NO)** |
| **1** | **Accessing the web URL (https://www.tripadvisor.in)** | 1 | YES | YES |
| **2** | **Clicking on Holiday homes button** | 1 | YES | YES |
| **3** | **Entering “Nairobi” in ”Where to” text field** | 1 | YES | YES |
| **4** | **Selecting the date “15/12/20” under ”Check in”** | 1 | YES | YES |
| **5** | **Selecting the date “20/12/20” under “Check out”** | 1 | YES | YES |
| **6** | **Clicking on “Guests” filter** | 1 | YES | YES |
| **7** | **Providing a count of “4” for “Guests” category and appropriate counts for other categories** | 1 | YES | YES |
| **8** | **Clicking on “Sort By” list box field** | 1 | YES | YES |
| **9** | **Selecting “Traveller Rating” option** | 1 | YES | YES |
| **10** | **Selecting “Elevator/Lift access” check box under “Amenities”** | 1 | YES | YES |

**AUTOMATION FEASIBILITY FOR REQUIREMENT – 2:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.NO** | **FUNCTIONALITY NAME** | **TEST CASE FOR PARTICULAR FUNCTIONALITY** | **TEST ENVIRONMENT AVAILABLE FOR AUTOMATION (YES/NO)** | **POSSIBILITY FOR AUTOMATION (YES/NO)** |
| 1 | **Accessing the web URL**  **(https://www.tripadvisor.in/Cruises)** | 1 | YES | YES |
| 2 | **Clicking on “Cruise line” listbox field**. | 1 | YES | YES |
| 3 | **Selecting “Abercrombie & Kent Cruise Line” from the list box.** | 1 | YES | YES |
| 4 | **Clicking on “Cruise Ship” listbox field.** | 1 | YES | YES |
| 5 | **Selecting “Sun Boat IV (Abercrombie & Kent)” from the listbox.** | 1 | YES | YES |
| 6 | **Clicking on the “Search” button.** | 1 | YES | YES |

**AUTOMATION VS MANUAL TESTING:**

|  |  |  |
| --- | --- | --- |
| **TEST PREFERENCES** | **TO AUTOMATE** | **NOT TO AUTOMATE** |
| **Are the requirements stable?** | **YES** | **YES** |
| **Do 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** |