**Automation feasibility report V 1.0**

**Revision History**

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| --- | --- | --- | --- |
| Version | Issue date | Author/editor | Description/Summary of changes |
| 1.0 | 03-11-2015 | Vinodh Srinivasan | Initial document |
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# Introduction

This document has the complete information regarding the automation solution going to be used for the applications under test. The document has been categorized into two major solutions,

* Automation solution for Web application.
* Automation for mobile appliction.

This also covers feasibility testing types other than automation with the available tool.

# Automation Solution for Web Application

We are planning to use Ranorex automation tool for performing our web automation testing, we have identified Ranorex based on the following criteria,

* One of the most powerful automation tool available on market.
* Ease of use and user friendly tool which promotes faster implementation
* Highly advanced record and playback features.
* Top end object identification tool which can easily handle version change.
* One stop solution for our current testing requirement.
* Apart from the above advantages, tool is capable of performing cross browser testing.

# Tool utilization methodology

We are planning to utilize the record and play back functionality which is already available with the tool, this record activity will help us identify the required objects quickly and covers manual test case flow as well. Once this recording activity is completed we will parameterize the script based on our requirements.

# Reasons for choosing the current automation approach

Below are the specfic reasons for utilizing Ranorex and our current approach,

* Record and playback feature is the fastest solution given the time available for testing the current application.
* Ranorex’s record and playback feature is more advanced when compared with leading tools in the industry such as Selenium and UFT.
* Given the coding expertise of the team in a limited time frame this can be considered as an ideal solution.

# Automation for mobile application

We are planing to use Ranorex for mobile automation testing as well, as per our preliminary analaysis the tool is capable performing automation in mobiles on both browsers and apps. Following are the detailed data for the tool identification,

* Ranorex makes connectivity to devices easier without asking the user to install any third party applications.
* Supports USB,Emulator and network connectivity.
* Testing of websites via Mobile browser can also be automated with Ranrex.
* Has record and playback option availble.

# Tool utilization methodology

The tool requires us to install an apk to the device which being used for the test and allows us to perform record and playback after proper configuration. For the current testing we are planning to use the record and playback facility along with parameterization as and when required.

# Reasons for choosing the current automation approach

Following are the specfic reasons for utilizing Ranorex and our current approach,

* Team has no prior experience in android or mobile application testing.
* As per our high level research the code generated through record and play back can be modified easily.
* No seperate activity required as part of object identification.
* Supports cross platform testing.

# Epilogue

Ranorex has been chosen for the current activity mainly because of the ease of use of this application, being new to coding and mobile automation testing we believe the above tool has given our team a competitive edge.