Logbox Automation Test Strategy Document

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| Logbox |

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The Automation Test Strategy Document is a living document that is created in the project’s Requirements Definition phase, after the requirements have been specified. The Automation Test Strategy document describes the scope and approach for the testing activities of the project. This includes defining how testing will be managed, the project testing reports and the associated risks and contingencies. The Automation Test Strategy document will be maintained throughout the life of the project.

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# Document Control

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# Introduction

The background of this project requires that the frontend of the web application is functional for all Logbox Premium (Practice) clients to be able to manage all Medical Practice related activities for patients in their care. The service includes allowing practices to collaborate with each other and with hospital groups.

# Test Scope

The testing activities include: Messaging Patients, Logging Medical Consultations and Activities, Sending and Capturing Medical forms, Adding Diagnosis and Billing codes, Creating Pre-admissions, Admissions and Discharges, and Collaborating with other Practices.

# Test Strategy

UI Tests will be the main focus. Test data will be set up in the form of signing up a new practice and adding patients with sufficient information so as to cover all possible test avenues. Pre-admissions, Admissions and Discharges will be created as well.

## Entry Criteria

Test Plan and Test Cases for the scope of test activities

A frontend test environment with usernames and password

A Test Management tool (JIRA)

Written in Java

Support must be available for the automation tool

IntelliJ must be installed (or Eclipse)

Selenium

TestNG

Maven

## Exit criteria

The exit criteria will consist of a 100% test coverage pass rate for all test scenarios by ensuring that all Critical/High identified defect/s are fixed and retested.

## Assumptions, Dependencies and Constraints

It is assumed that testing will be done as a separate side projects and won’t be tied to any Logbox sprints.

# Test Environments

## Test Environment Specification

The pre-conditions (*listed below*) of the test environment/s before test execution

commences would be for the test environment to run on Release 1.1

* Installation of the automation tools on both testers’ local machines
* Testing environment setup – DEV environment
* Access to MailDev

### Support (resources or skills) required to maintain the test environments

A suitable skilled resource will be required to maintain the test environment/s during

execution. Collaboration will be done with Logbox devs to integrate the tests into the

build pipeline.

### If any other projects are to make parallel usage of any of the above, reference it.

### The following projects will make use of the same test environment:

### Logbox Premium DEV

# Test Control

With each deployment of code, test scripts will rerun in order to establish whether any additional/new functionality have been introduced based on new requirements. In the event that new changes are identified or failed from the result/s the test scripts will be maintained and controlled by the source via the Configuration Management process. A folder will be created for the Logbox project under the QA Automation Repository in Git where all code will be stored.

## Test Automation Tools

The test automation tool that will be used is Selenium which will be suitable for

this project.

## test Automation framework

* Build reliable and scalable tests
* Run tests in parallel
* An end-to-end test execution and reporting
* Exception handling
* Create a continuous testing pipeline/s as part of the CI/CD process

## Test Data

Since the project is using a Keyword Driven approach, test data will be obtained from

an excel sheet for lookup.

## Test Scripts Standard

The standard that will be followed by all test resources will comprise of:

* + Test script names in the following naming convention: shouldAddImageAttachmentPNGFormatOnActivityCaseFile
  + Page Object identification according to naming convention:

ClassnameMethodName eg ActivityFeedList.openPatientCaseFile

* + Test functions, methods and constraints

# Test Management

## Test Management Tools

The test artifacts will be stored on the Git server after each test has been

executed.

The Test Management tool JIRA will be used to integrate with the test automation

tool.

## Test Execution

The test scenarios/scripts will be organized and prioritized for execution by:

* Activities Feed
* Pre-admissions, Admissions and Discharges

### Recording Test Results

The test results will be provided in Reports form and will consist of:

* + The name of the test case
  + The id of the test case
  + The Start time of the test case
  + The duration of the test case
  + The Status of the test case (Pass/Fail)
  + Screenshot/s on failed step
  + The summary of the test case

The process against a failed script will be identified by the Status reflecting as either

Failed, No Run or Not Applicable. The exact line numbers where the test case failed

will be recognized through error handling depending on circumstance/s e.g. incorrect

values, keyword test parameter/s, object not found and so forth.

## APPROACH TO TEST INCIDENT MANAGEMENT

### Recording Test Incident

Any defects or queries encountered during execution, the script will be investigated

before logging an actual bug on JIRA

### Tracking Test Incident

The testers will manage and prioritize any defects or queries with

the relevant party/s and will frequently follow-up on the issues reported.

### Escalation of Test Incident for Resolution

### In the event that the Test Team escalates that the defects or queries logged are

### impacting on the Logbox Project the process would be to communicate to the Test

### Manager who will liaise or negotiate with the relevant party/s depending on the

### delay and communicate back to the Team on the progress.

### Retesting of Test Incident

The process that will be followed to retest any defects would be for the relevant

party/s to reassign the bug or query back to the Automation Engineer and provide

The outcome of the solution as well as indicate which test cycle the change/s

Can/will be retested.

# Test Reporting

## TesT Measures and Metrics

The measures and metrics that the Test Team will publish related to the Test

Planning, Test Design and Test Execution will be:

* Communicated in the daily stand up
* JIRA tickets will be updated
* Script runtime
* Cross-browser compatibility

### Incident Reporting

Weekly reports will be extracted and distributed to the relevant stakeholders which

will comprise of % complete/incomplete

## Testing Review Meeting

Bi-Weekly Test Review meetings will be setup if required in order to discuss the

Project progress and any impediments that the Test Team is facing. Informal calls will

also be conducted where needed

## Test Reports

A final test report will be submitted to the stakeholders at the end of the test

setup phase and will consists of:

* + The name of the test pack
  + The names of the test cases
  + The id of each test case
  + The Start time of the test case
  + The duration of the test case
  + The Status of the test case (Pass)
  + The summary of the test case

# Risks Management

## Risks

Risks such as an unstable environment will have a major impact on automation. This

could lead to inadequate test results. Any other risks will be maintained and

monitored in the Risk Log section of this document.