[This document is provided as a sample template for Test Plan creation. The proceeding material is a public work that compiles information gathered throughout my professional and scholar experience, and thus presents recommendations based on various public domain sources. All company and customer related names are fictitious.

Text enclosed within square brackets is meant as guidelines for what each section's content, and should be removed for final publishing of the material.

ABC Mobile and Web Application

TEST PLAN

Document Number 829.01.2020.05

ABOUT THIS DOCUMENT

[This section provides an overview of the contents and purpose of the document and product being addressed (web application, server-side application, API, specific process, etc.)]

This document gathers the necessary information for planning and controlling efforts related to testing the ABC mobile and web application. It outlines the test strategy, test targets, test levels and test techniques to use while executing activities; test deliverables produced from those activities are also described.

All other test work products referenced, but not described within this document, are explained in related reference documents and/or recorded in the Test Management System (TMS).

WHO SHOULD READ THIS DOCUMENT?

[Intended audience for the document. It may be internal staff, project staff or customer representatives]

This document is intended for:

- Project Managers
- Business Analysts
- Testers
- Customer Representatives

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1. INTRODUCTION

1.1. PURPOSE

[Brief summary of the objectives of the document, product being tested (web application, server-side application, specific process, etc.)]

The ABC Mobile and Web application acts, among other things, as a single point of contact for all customer related support requests regarding ABC services. Its mobile first design approach ensures usability for a wide range of users and compatibility for different devices and operating systems; the different request workflows that are available presents a wide array of filtering, visualization and request routing possibilities available to end-users.

As part of the current Project Plan, risks associated with the functionalities pertaining support requests are identified (listed in Risks and Dependencies section).

The main objective of this Test Plan is to gather information about efforts used to validate the support requests functionality of the ABC mobile and web application.

1.2. REFERENCES

[Listing of relevant project related documents and external source references]

The following project documents serve as reference material for this Test Plan:

- 001.01.2020.02 Requirement Specification Document (RSD)
- 005.01.2020.03 Project Plan (PP)
- 005.02.2020.03 Project Plan Schedule (PPS)
- 007.04.2019.05 Interface and Module Communication Standards (IMCS)

2. TEST PLAN

2.1. SCOPE

[Define what is within and outside scope. List feature groups, classifications, categories, applications, interfaces or systems.]

The following functional and non-functional feature classifications, as described in the RSD, are within the scope of this test plan:

- Functionality through the GUI
- Request transaction processing
- Localization and Internationalization
- System administration
- User security workflows
- Request security workflows

The following functional and non-functional feature categories, as described in the RSD, are outside the scope of this test plan:

- Configuration
- Content validation
- Performance testing
- Load and stress testing
- Usability testing

2.2. TEST STRATEGY

[Describe the general testing strategy to be used. List the different testing levels to be taken into consideration.]

The general testing strategy is identified as grey-box testing, using manual and automated testing scripts at Integration and System levels. Component and User Acceptance level are not addressed as activities executed within this Test Plan.

Pass and Fail criteria is defined for each level of testing in the internal standard document regarding each level (see References section).

2.2.1. Component Testing

[Describe the general testing strategy to be used. Briefly describe the different testing levels and techniques to be taken into consideration.]

In adherence with implemented SDLC and SCRUM practices, the development team conducts informal component testing within each sprint.

2.2.2. Integration Testing

The focus of Integration Testing is to validate component integration prior to System Testing. For the scope of this Test Plan, Grey-box, Functional and Change Related testing techniques are used at this level, as validation of code regarding information routing decisions within workflow, integrating the support request modules to the product evaluation and customer experience modules is evaluated.

Activities regarding this test level are performed by a team of 4 testers, using both manual and automated test scripts as each sprint produces testable objects. Manual testing is conduced initially for untested communication between existing or new components. Automated testing is based upon existent knowledge base of testing scripts, and is the primary source for regression tests and functional validation of changed processes and features at this level.

The test basis identified for this test level are the RSD, PPS and IMCS sections that contain references to features identified within testing scope and dates of deliverables related to them.

Decision on the efforts to use manual or automated scripts is defined within each Sprint Planning Session as per analysis of the Sprint Backlog.

2.2.3. System Testing

The focus of System Testing is to validate system wide behavior. Black-box, Functional and Change related testing techniques are used at this level, as validation of code regarding information routing decisions within workflow is evaluated.

System testing is performed by a team of 4 testers using both manual and automated test scripts on candidates release-builds of the applications that have passed the prior testing activities. Manual testing is conduced initially for new and significantly modified processes and/or GUI features, for sanity and functional testing. Automated testing is based upon the large knowledge base of testing scripts, and is the primary source for regression and smoke tests executed at this level, as well as sanity and functional testing of features with minor changes.

The main test basis identified for this test level of testing are the RSD and PPS sections that contain references to features identified within testing scope.

Decision on the efforts to use manual or automated scripts is defined within each Sprint Planning Session as per analysis of the Sprint Backlog.

2.2.4. User Acceptance Testing

In adherence with what is stated in the PP, User Acceptance Testing is conducted by an external team of System Auditors and Testers, and thus is outside the scope of this Test Plan.

3. TEST SCHEDULE

The complete Test Schedule is detailed in Task Tracking System (TTS) under the Project code ABC-QA-86753099.

3.1. DELIVERABLES

[List the deliverables produced from executing the test activities. These can be grouped by activity, feature category or other classification in accordance to the Project Plan]

- Automated Test Script packages
- Manual Test Case packages
- Test Cycle Reports
- Test Summary Report

3.1.1. Automated Test Script Packages

[Describe contents or further references for each deliverable]

Automated Test Scripts used as part of the testing effort are recorded within Test Cases, in the TMS, and packaged per classifications identified in the Scope section.

3.1.2. Manual Test Case packages

[Describe contents or further references for each deliverable]

Manual Test Case scripts used as part of the testing effort are recorded within the TMS and packaged per classifications identified in the Scope section.

3.1.3. Test Cycle Reports

[Describe contents or further references for each deliverable]

At the end of each Test Cycle, a summary report of the test efforts undergone is provided. In accordance with the internally documented standard, the report contains the following information:

- Start and end of Sprint
- Test levels addressed
- Execution summary
- Detailed test results
- List of defects reported
- Process improvement findings and recommendations

3.1.4. Test Summary Report

[Describe contents or further references for each deliverable]

At the end of the final scheduled Test Cycle, a summary report of the total test efforts undergone is provided. In accordance with the internally documented standard, the report contains the following information:

- Sprint timelines
- Test levels addressed
- Execution summary
- Detailed test results
- List of defects reported
- Post-Test Plan actions
- Process improvement findings and recommendations

3.2. TEST ACTIVITIES

[Describe the sequence of activities and proposed schedule for their execution]

As per our current SDLC, all tests efforts are conducted within two week long sprints. In adherence to implemented SCRUM practices, each cycle of this Test Plan is scheduled to start and end within a Sprint until exit criteria is reached.

Each cycle of this Test Plan, with the exceptions outlined, is comprised of the following activities:

- Identify and inspect test environments [1]
- Start of cycle review
- Define test specifications
- Define drivers and stubs [2]
- Construct test data
- Execute tests
- Record test results
- Produce Test Cycle reports
- Produce Test Summary Report [3]
- Modify/adapt Test Plan [4]

Each activity is described in detailed in the related internally documented standard . See the TMS and TTS guideline documents for further details.

3.3. ROLES AND RESOURCES

[List the different roles, tools and testing environments to use.]

In accordance with the PP, the following internal roles with responsibilities are identified:

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[1] Executed once within the initial cycle.
[2] See Risks and Dependencies.
[3] Produced on the final cycle.
[4] Ongoing activity, any significant changes made to this document as a result of project adjustments, are applied to this living document and communicated as detailed in the PP.

Role	Responsible for
Test Lead	Activity control, resource allotment and follow-up actions execution regarding automated and manual test efforts, identification of manual test scenarios to be automated.
ATS Tester	Design and execution of automated test scripts, defect reporting and validation testing at required levels.
Manual Tester	Design and execution of manual test cases, defect reporting and validation testing at required levels.

The following test tools and environments are required:

- Data Anonymization tool
- Data Anonymization target database
- CI/CD pipeline to SIT and QA Environments
- System Integration Test Environment
- Functional QA (Staging) Test Environment
- Defect Tracking System

3.4. RISKS AND DEPENDENCIES

[Describe any risks and dependencies identified in the Project Plan that may affect the Test Plan execution, as well as those identified as part of the test planning activities]

The following risks, listed in the PP, are related to activities described within this Test Plan. Contingencies for each are briefly described.

1) The Single Sign On interface completion depends on sign-off of project related items on which it depends, described in the PP. In the event that this functionality, described as a non-critical requirement in the RDS, is not available at the execution of the second (2nd) scheduled cycle of testing, a risk of major impediments and low execution coverage of security features exists. The proposed contingency action is to use Drivers already developed that mimic the single sign-on functionality, to assess the status of related and dependent features in early stages. All tests executed related to this functionality will be re-executed in the 3rd scheduled cycle.

The following dependencies, listed in the PP, are related to activities described within this Test Plan.

- Execution of this Test Plan depends on Test Environments detailed in the PP.
- Completion of this Test Plan depends on Testers detailed in the PP to be available at the start of the first cycle. These testers are currently allocated to another project, also detailed in the PP.