Test Plan Project "CALIFORNIA MARKETING"

Document Revision History:

Date	Version	Description	Author	Reviewer	Approver
07.27.2022	0.1.	Test plan was created	Andrey Popov		

1. INTRODUCTION

Customer wants a perfect website, which passed the full cycle of manual testing. Given the specificity of the site it is very important to have the same quality and the site.

The Test Plan has been created to facilitate communication within the team members. This document describe approaches and methodologies that will apply to the unit, integration and system testing of the https://qasvus.wixsite.com/ca-marketing. It includes the objectives, test responsibilities, entry and exit criteria, scope, schedule major milestones, entry and exit criteria and approach. This document has clearly identified what the test deliverables will be, and what is deemed in and out of scope.

2. SCOPE

The document mainly targets the GUI testing and validating data in report output as per Requirements Specifications provided by Client.

- 2.1 Functions to be tested:
 - GUI
 - Search and Filters Logic
 - Performance
- 2.2 Functions not to be tested.
- 2.3. Not other than mentioned above in section 2.1.

3. QUALITY OBJECTIVES

3.1 Primary Objectives

A primary objective of testing is to: assure that the system meets the full requirements, including quality requirements (functional and non-functional requirements) and fit metrics for each quality requirement and satisfies the use case scenarios and maintain the quality of the product. At the end of the project development cycle, the user should find that the project has met or exceeded all of their expectations as detailed in the requirements.

Any changes, additions, or deletions to the requirements document, Functional Specification, or Design Specification will be documented and tested at the highest level of quality allowed within the remaining time of the project and within the ability of the test team.

3.2 Secondary Objectives

The secondary objectives of testing will be to: identify and expose all issues and associated risks, communicate all known issues to the project team, and ensure that all issues are addressed in an appropriate matter before release. As an objective, this requires careful and methodical testing of the application to first ensure all areas of the system are scrutinized and, consequently, all issues (bugs) found are dealt with appropriately.

4. TEST APPROACH

The approach, that used, is Analytical therefore, in accordance to requirements-based strategy, where an analysis of the requirements specification forms the basis for planning, estimating and designing tests. Test cases will be created during exploratory testing. All test types are determined in Test Strategy.

Team also must used experience-based testing and error guessing utilize testers' skills and intuition, along with their experience with similar applications or technologies.

The project is using an agile approach, with weekly iterations. At the end of each week the requirements identified for that iteration will be delivered to the team and will be tested.

4.1 Test Automation

Automated unit tests are part of the development process, and UI smoke-tests from CHL01 must be also automated during which performance data must be captured

5. ROLES AND RESPONSIBILITIES

Role	Staff Member	Re	sponsibilities
Project Manager		 Acts as a primary contact for development and QA team. Responsible for Project schedule and the overall success of the project. 	
QA	Andrey Popov	1.	Understand requirements.
		2.	Writing and executing Test cases.
		3.	Preparing RTM.
		4.	Reviewing Test cases, RTM.
		5.	Defect reporting and tracking.
		6.	Retesting and regression testing.
		7.	Bug Review meeting.
		8.	Preparation of Test Data.
		9.	Coordinate with QA Lead for any issues or problems
		encountered during test preparation/execution/defect	
		handling.	

6. ENTRY AND EXIT CRITERIA

6.1 Entry Criteria

• All test hardware platforms must have been successfully installed, configured, and functioning properly.

- All the necessary documentation, design, and requirements information should be available that will allow testers to operate the system and judge the correct behavior.
- All the standard software tools including the testing tools must have been successfully installed and functioning properly.
- Proper test data is available.
- The test environment such as, lab, hardware, software, and system administration support should be ready.
- QA resources have completely understood the requirements.
- QA resources have sound knowledge of functionality.
- Reviewed test scenarios, test cases and RTM.

6.2 Exit Criteria

- A certain level of requirements coverage has been achieved.
- No high priority or severe bugs are left outstanding.
- All high-risk areas have been fully tested, with only minor residual risks left outstanding.
- Cost when the budget has been spent.
- The schedule has been achieved.

7. SUSPENSION CRITERIA AND RESUMPTION REQUIREMENTS

7.1 Suspension criteria

- The build contains many serious defects which seriously or limit testing progress.
- Significant change in requirements suggested by client.
- Software/Hardware problems.
- Assigned resources are not available when needed by the test team.

7.2 Resumption criteria

Resumption will only occur when the problem(s) that caused the suspension have been resolved.

8. TEST STRATEGY

8.1 QA role in test process:

- Understanding Requirements.
- Requirement specifications will be sent by the client.
- Understanding of requirements will be done by QA.

- Preparing Test Cases:

QA will be preparing test cases based on the exploratory testing. This will cover all scenarios for requirements.

- Preparing Test Matrix:

QA will be preparing a test matrix which maps test cases to respective requirements. This will ensure the coverage for requirements.

- Reviewing test cases and matrix:

- Peer review will be conducted for test cases and test matrices by QA Lead.
- Any comments or suggestions on test cases and test coverage will be provided by the reviewer and respective Author of Test Case and Test Matrix.
- Suggestions or improvements will be re-worked by the author and will be sent for approval.
- Re-worked improvements will be reviewed and approved by the reviewer.

- Creating Test Data:

Test data will be created by respective QA on the client's developments/test site based on scenarios and Test cases.

- Executing Test Cases:

- Test cases will be executed by respective QA on the client's development/test site based on designed scenarios, test cases and Test data.
- Test results (Actual Result, Pass/Fail) will be updated in the test case document Defect Logging and Reporting: QA will be logging the defect/bugs in Word document and JIRA, found during

execution of test cases. After this, QA will inform the respective developer about the defect/bugs.

- Retesting and Regression Testing:

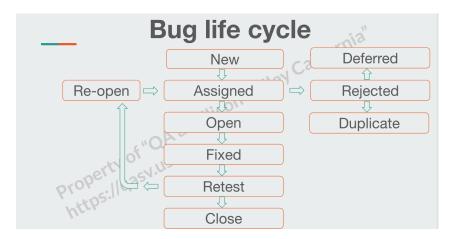
Retesting for fixed bugs will be done by the respective QA once it is resolved by the respective developer and bug/defect status will be updated accordingly. In certain cases, regression testing will be done if required.

- Deployment/Delivery:

- Once all bugs/defect reported after complete testing is fixed and no other bugs are found, report will be deployed to client's test site.
- Once round of testing will be done by QA on client's test site if required Report will be delivered along with sample output by email to respective lead and Report group.
- QA will be submitting the filled hard copy of delivery slip to respective developer.
- Once lead gets the hard copy of delivery slip filled by QA and developer, he will send the report delivery email to client.

8.2 Bug life cycle:

All the issues found while testing will be logged into JIRA.



8.3 Testing types

Black box testing:

It is some time called behavioral testing or Partition testing. This kind of testing focuses on the functional requirements of the software. It enables one to derive

sets of input conditions that that will fully exercise all functional requirements for a program.

GUI Testing:

GUI testing will includes testing the UI part of report. It covers users Report format, look and feel, error messages, spelling mistakes, GUI guideline violations.

Exploratory testing:

Exploratory testing will includes a type of software testing where Test cases are not created in advance but QA check system on the fly. QA may note down ideas about what to test before test execution.

ADHOC testing:

ADHOC testing will includes an informal testing type with an aim to break the system.

Positive testing:

Positive testing will includes the type of testing that can be performed on the system by providing the valid data as input. It checks whether an application behaves as expected with positive inputs.

Negative testing:

Negative testing will includes is a method of testing an application or system that ensures that the plot of the application is according to the requirements and can handle the unwanted input and user behavior. Invalid data is inserted to compare the output against the given input. Negative testing is also known as failure testing or error path testing. When performing negative testing exceptions are expected.

Integration Testing:

Integration testing is systematic technique for constructing the program structure while conducting test to uncover errors associated with interacting. In Report, integration testing includes the testing Report from respective location(s).

Functional Testing:

Functional testing is carried out in order to find out unexpected behavior of the report. The characteristic of functional testing are to provide correctness, reliability, testability and accuracy of the report output/data.

System Testing:

System testing of software is testing conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements.

<u>Performance Testing:</u>

- Check the optimal time the page is loaded
- Check the operation of the system under load

<u>User acceptance testing:</u>

The purpose behind user acceptance testing is to confirm that system is developed according to the specified user requirements and is ready for operational use. Acceptance testing is carried out at two levels - Alpha and Beta Testing. User acceptance testing (UAT) will be done at the Client.

Alpha testing:

The alpha test is conducted at the developer's site by client.

8.4 Bug Severity and Priority Definition

Bug Severity and Priority fields are both very important for categorizing bugs and prioritizing if and when the bugs will be fixed. The bug Severity and Priority levels will be defined as outlined in the following tables below. Testing will assign a severity level to all bugs. The Test Lead will be responsible to see that a correct severity level is assigned to each bug.

The QA Lead, Development Lead and Project Manager will participate in bug review meetings to assign the priority of all currently active bugs. This meeting will be known as "Bug Triage Meetings". The QA Lead is responsible for setting up these meetings on a routine basis to address the current set of new and existing but unresolved bugs.

Severity List

Severity ID	Severity	Severity Description
1	Highest	The module/product crashes or the bug causes non-recoverable conditions. System crashes, GP Faults, or database or file corruption, or potential data loss, program hangs requiring reboot are all examples of a Severity 1 bug.
2	High	Major system component unusable due to failure or incorrect functionality. Severity 2 bugs cause serious problems such as a lack of functionality, or insufficient or unclear error messages that can have a major impact to the user, prevents other areas of the app from being tested, etc. Severity 2 bugs can have a work around, but the work around is inconvenient or difficult.
3	Medium	Incorrect functionality of component or process. There is a simple work around for the bug if it is Severity 3.
4	Low	Documentation errors or signed off Severity 3 bugs.

Priority List

Priority	Priority Level	Priority Description
1	Highest	This bug must be fixed immediately; the product cannot ship with this bug.
2	High	These are important problems that should be fixed as soon as possible. It would be an embarrassment to the company if this bug shipped.

3	Medium	The problem should be fixed within the time available. If the bug does not delay shipping date, then fix it.
4	Low	It is not important (at this time) that these bugs be

		addressed. Fix these bugs after all other bugs have been fixed. Enhancements/ Good to have features incorporated-just are out of the current scope.
5	Lowest	Documentation errors or signed off Low 4 bugs.

9. RESOURCE AND ENVIRONMENT NEEDS

9.1 Testing Tools

Process	Tool
Test case creation	Microsoft Excel
Test case tracking	Microsoft Excel
Test case execution	Manual, Selenium
Test case management	Microsoft Excel
Defect management	Microsoft Word
Test reporting	PDF
Check list creating	Microsoft Excel
Project structure	Mind Map (.xmind)

9.2 Configuration Management

• Documents CM: SVN

• Code CM: Git

9.3 Test Environment x Support level 1 (browsers):

• Windows 10 : Edge, Chrome (latest), Firefox (latest), Safari (latest)

• iOS: Chrome (latest), Firefox (latest)

Support level 1 (devices):

iPhone 13Pro/ProMax

Support level 2:

- Windows 7: IE 9+, Chrome (latest), Firefox (latest), Safari (latest)
- Windows XP: IE 8, Chrome (latest), Firefox (latest), Safari (latest)
- Support level 3: x anything else

10.TEST SCHEDULE

Task Name	Start	Finish	Effort	Comments
Test Planning	07.27.2022	07.27.2022		documentation
Review Requirements documents	07.27.2022	07.27.2022		
Create test basis	07.27.2022	07.27.2022		
Staff and train new test resources	07.27.2022	07.27.2022		
Black box testing	07.27.2022	07.27.2022		
Exploratory testing	07.27.2022	07.27.2022		
ADHOC testing	07.27.2022	07.27.2022		
Positive testing	07.27.2022	07.27.2022		
Negative testing	07.27.2022	07.27.2022		
Functional testing – Iteration 1	07.27.2022	07.27.2022		
Iteration 1 deploy to QA test environment	07.27.2022	07.27.2022		
Regression testing	07.27.2022	07.27.2022		

Functional testing – Iteration 2	07.27.2022	07.27.2022	
System testing	07.27.2022	07.27.2022	
Regression testing	07.27.2022	07.27.2022	
UAT	07.27.2022	07.27.2022	
Resolution of final defects and final build testing	07.27.2022	07.27.2022	
Deploy to Staging environment	07.27.2022	07.27.2022	
Performance testing	07.27.2022	07.27.2022	
Release to Production	07.27.2022	07.27.2022	

11.TERMS/ACRONYMS

The below terms are used as examples, please add/remove any terms relevant to the document.

TERM/ACRONYM	DEFINITION
API	Application Program Interface
GUI	Graphical user interface
PM	Project manager
UAT	User acceptance testing
CM	Configuration Management
QA	Quality Assurance
RTM	Requirements Traceability
	Matrix