TEST PLAN FOR ESP

Table of Contents

Introduction

The Test Plan has been created to communicate the test approach to team members. It includes the objectives, scope, schedule, risks and approach. This document will clearly identify what the test deliverables will be and what is deemed in and out of scope.

1.1 Objectives

Test Case Tamer is a web-based Test Management tool used to create and store tests as well as the results of running those tests. This tool is a new product written with Ruby on Rails using a 'mysql' database. The test team is responsible for testing the product and ensuring it meets their needs. The test team is both the customer and the tester in this project.

Phase 1 of the project will deliver TCT (Test Case Tamer) with functionality to create and store manual tests. This will allow the test team to start transferring tests over to the new system. Must have functionality is considered more important than the delivery date in this project.

1.2 Team Members

Resource Name	Role
François-Louis Gourio	Backend developer
Antoine Venturini	DevSecOps
Paulin Rebours	Product Manager/AdminSys
Anthony Touré	Product Manager
Fouad Abda	Frontend Developer
Ayoub Ait abdellah	Backend Developer
Fadel Belhenniche	Frontend/Mobile developer
Stéphane D. BARRO	QAOPS

2 Scope

The initial phase will include all 'must have' requirements. These and any other requirements that get included must all be tested. At the end of Phase 1, a tester must be able to:

1. Create a manual test with as many steps as necessary
2. Save it
3. Retrieve it and have the ability to view it when running the test
4. Enter results and appropriate comments
5. View results

As the team works with the product they will define the needs for the second phase.

Assumptions / Risks

2.1 Assumptions

This section lists assumptions that are made specific to this project.

1. Delivery of the product is in format that the test team can check it into CVS.

2.2 Risks

The following risks have been identified and the appropriate action identified to mitigate their impact on the project. The impact (or severity) of the risk is based on how the project would be affected if the risk was triggered. The trigger is what milestone or event would cause the risk to become an issue to be dealt with.

#	Risk	Impact	Trigger	Mitigation Plan
1	Scope Creep – as testers become more familiar with the tool, they will want more functionality	High	Delays in implementation date	Each iteration, functionality will be closely monitored. Priorities will be set and discussed by stakeholders. Since the driver is functionality and not time, it may be necessary to push the date out.
2	Changes to the functionality may negate the tests already written and we may loose test cases already written	High – to schedule and quality	Loss of all test cases	Export data prior to any upgrade, massage as necessary and re-import after upgrade.
3	Weekly delivery is not possible because the developer works off site	Medium	Product did not get delivered on schedule	
4				

3 Test Approach

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

Exploratory testing will play a large part of the testing as the team has never used this type of tool and will be learning as they go. Tests for planned functionality will be created and added to TCT as we get iterations of the product.

3.1 Test Automation

Automated unit tests are part of the development process, but no automated functional tests are planned at this time.

3.2 Manual tests

Manual unit tests are part of the development process, and are used to simulate all the normal manuel interactions

3.3 Monkey tests

Monkey tests are part of the development process, and are used to test all the interactions with random inputs to simulate user experience

3.4 Regression tests

Regression tests are part of the development process, and are used to test that all the previous working tests have no problem with the new implementations.

3.4 Performance tests

Regression tests are part of the development process, and are used to simulate different environments to check that the app can work under

4 Test Environment

A new server is required for the web server, the application and the database.

5 Milestones / Deliverables

5.1 Test Schedule

The initial test schedule follows…….

Task Name	Start	Finish	Effort	Comments
Test Planning				
Review Requirements documents			2 d	
Create initial test estimates			1 d	
Staff and train new test resources				
First deploy to QA test environment				
Functional testing – Iteration 1				
Iteration 2 deploy to QA test environment				
Functional testing – Iteration 2				
System testing				
Regression testing				
UAT				
Resolution of final defects and final build testing				
Deploy to Staging environment				
Performance testing				
Release to Production				

5.2 Deliverables

Deliverable	For	Date / Milestone
Test Plan	Project Manager; QA	
Requirement Traceability matrix	Project Manager; QA	
Test Results	Project Manager	
Test Status report	QA	
Robo tests	QA	
Metrics(Grafana, guacamole	All team members	