Software Development Testing Plan

# Changelog

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| --- | --- | --- | --- |
| Version # | Date of change | Change by | Outline |
| 1.0 | 5/11/2020 | Daniel Ewen | Test Plan Creation |
|  |  |  |  |
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Table of Contents

[1. Introduction 1](#_Toc55972333)

[1.1. Scope 1](#_Toc55972334)

[1.1.1. In Scope 1](#_Toc55972335)

[1.1.2. Out Of Scope 1](#_Toc55972336)

[1.2. Quality Objective 1](#_Toc55972337)

[1.3. Roles and Responsibilities 1](#_Toc55972338)

[2. Test Methodology 2](#_Toc55972339)

[2.1. Overview 2](#_Toc55972340)

[2.2. Test Levels 2](#_Toc55972341)

[2.3. Bug Triage 2](#_Toc55972342)

[2.4. Suspension Criteria & Resumption Requirements 2](#_Toc55972343)

[2.5. Test Completeness 2](#_Toc55972344)

[3. Test Deliverables 3](#_Toc55972345)

[4. Resource & Environment Needs 4](#_Toc55972346)

[4.1. Testing Tools 4](#_Toc55972347)

[4.2. Test Environment 4](#_Toc55972348)

[4.2.1. Hardware Environment 4](#_Toc55972349)

[4.2.2. Required Software 4](#_Toc55972350)

[5. Terms / Acronyms 5](#_Toc55972351)

## Introduction

### Scope

#### In Scope

Features to be tested.

|  |  |
| --- | --- |
| Feature | Description |
| Application design is responsive | Application formats automatically to better suite the available screen size. |
| User Interface | User controls are easy to use |
| Interface responds in real-time |  |
|  |  |

#### Out Of Scope

These are features that won’t be tested.

|  |  |
| --- | --- |
| Feature |  |
|  |  |
|  |  |
|  |  |

### Quality Objective

Our team’s objective is to deliver a working prototype to the client with the following qualities:

* AUT[\*](#_Terms_/_Acronyms) must conform to the client’s requirements for each sprint.
* AUT must meet the client’s quality standards.
* Bugs/defects are tested and fixed before the application is deployed for the client.
* The AUT meets coding and commenting standards defined by each coding language standard.

### Roles and Responsibilities

|  |  |
| --- | --- |
| Role | Team Member/s |
| Developers |  |
| Test Manager |  |
| QA analyst |  |
| Business Analyst |  |
| Bug Triage |  |

## Test Methodology

### Overview

Our team will utilize the RAD[\*](#_Terms_/_Acronyms) test methodology throughout this project. Each sprint will seek to develop, test, and deliver a fully functioning prototype to the specification of the client.

### Test Levels

Our testing team will implement the following test types for this project:

* Exploratory Testing
* Functional Testing
* Accessibility Testing
* Compatibility Testing
* Integration Testing
* System testing
* User Acceptance Testing (UAT)

### Bug Triage

Our process for bug/defect triage is as follows:

* **Bug discovered:** Bug report is added to the bug list. For this our team will use the issue tracker built into Github, detailing the bug.
* **Investigate:** Developers read the report and try to replicate the bug. If replication occurs, the bug can then be prioritized.
* **Bug added to backlog:** Bug is awaiting resolution during sprint.
* **Resolved:** Bug is fixed during development and the issue is closed.

### Suspension Criteria & Resumption Requirements

### Test Completeness

Testing will be complete when:

* The AUT has been deemed to have 100% test coverage,
* all designed test cases return with a pass,
* all current bugs/issues have been resolved,
* the client is satisfied with the current condition of the AUT and has signed off on its deployment.

## Test Deliverables

|  |  |  |
| --- | --- | --- |
| Deliverable | Author/s | Reviewer/s |
| Test Plan | Daniel Ewen |  |
| Test Cases with validation |  |  |
|  |  |  |
| Client Sign-off |  |  |

## Resource & Environment Needs

### Testing Tools

### Test Environment

#### Hardware Environment

A modern development workstation with the following minimum specifications:

|  |
| --- |
| Part |
| Intel CPU 4-cores or more with hyperthreading |
| 16GB DDR4 RAM 2600MHz |
|  |

#### Required Software

|  |  |
| --- | --- |
| Software | |
| Xampp | For local webserver and database hosting |
| Visual Studio Code | For code and application development |
|  |  |

XAMPP

## Terms / Acronyms

|  |  |
| --- | --- |
| Term / Acronym | Definition |
| RAD | Rapid Application Development |
| AUT | Application Under Test |