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|  | Testing Plan |
|  |  |
|  | The MisSprints  ACME Movie Database  6/17/20 |

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| --- | --- | --- | --- |
| Version | Change Date | By | Description |
| 1.0 | 8/6/2020 | Ben Royans | Updated for sprint 2 |
| 1.1 | 17/06/2020 | Catherine Burns | Updated for sprint 3 |
| 1.2 | 30/06/2020 | Ben Royans | Updated for final handover |

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# Introduction

This document outlines the procedures, strategies and other details regarding the testing phase of the current sprint. This document will define the scope of the test process, the roles of the team and the hardware/software required.

## Scope

### In Scope

The following items will be included during the testing phase:

* WCAG has implemented.
  + Perceivable
  + Operable
  + Understandable
  + Robust

### Out of Scope

Anything NOT outlined in the above scope section will NOT be tested.

## Quality Objective

The objective of testing this application is to ensure it satisfies all requirements (both functional and non-functional) and also meets the quality standards as defined by the client. Through rigorous testing patterns any bugs, issues and un-expected behaviour will be identified and corrected. This approach will help us to deliver a quality application as the final product that exceeds customer expectations.

## Roles and Responsibilities

### Scrum Master:

The current scrum master is Ben Royans.

#### Responsibilities

* Implementing WCAG
* Fixing Bugs / Issues
* Documentation

### Developers

The current developers are Catherine Burns and Jai Ananda.

#### Responsibilities

* Programming
* Software Review Report
* Software Testing Plan

# Test Methodology

## Overview

This project employs the Rapid Application Development (RAD) methodology. This means testing occurs within every iteration (sprint) of the software development cycle. As this project has been structured to carry out weekly sprints, the testing will also occur as frequently.

## Test Levels

### Use Case Testing

As functionality as implemented into the website, it will be tested against it’s requirements and specifications to ensure it behaving correctly. Use case testing involves tabulating all possible course of actions for a user to achieve a desired result (such as navigate to the search page), recording the expected results and then testing them against real-world tests.

## Bug Triage

The goal of the triage is to provide framework and structure for the process of eliminating bugs or issues within the software as it is being developed.

### Confirm new bugs

Confirm the presence or absence of a newly reported bug. Attempt to re-create the bug in simulated conditions.

### Prioritise confirmed bugs

Prioritise all existing bugs based on their severity level. The chart below will provide a guide as how to classify bugs.

### Solve inconsistencies

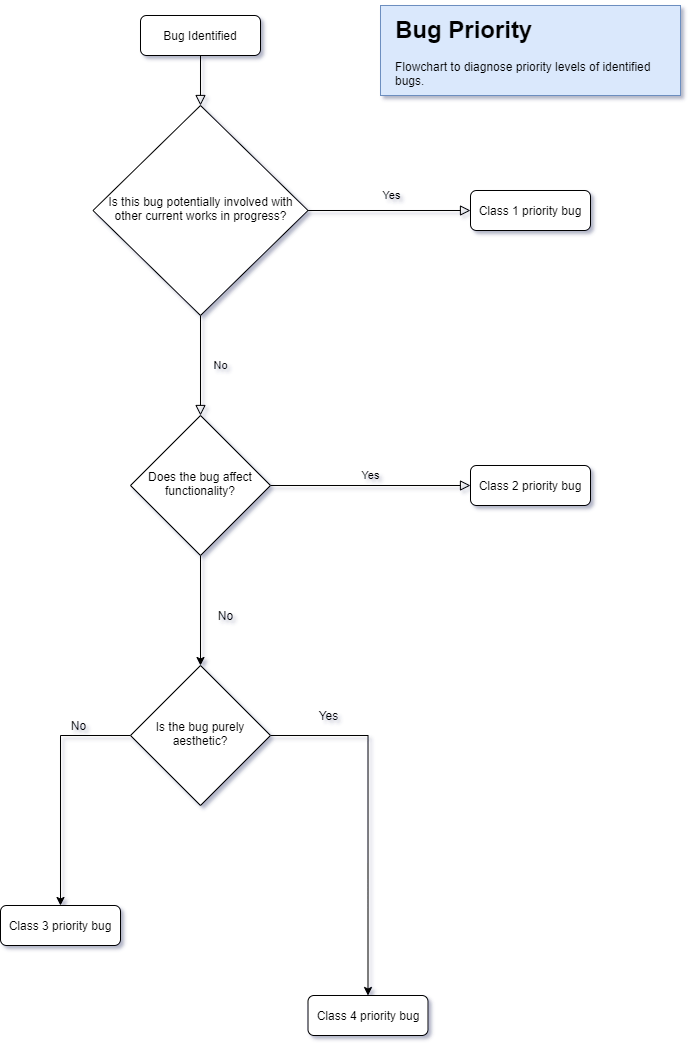
Gather any further required information regarding an existing bug and improve understanding.

### Review stale/in-progress bugs

Review any bug fixes currently in production, prioritising those that have not any recent progression.

### Review prioritised bugs

Assess each individual bug, devising possible solutions and documenting any restrictions.



## Suspension Criteria and Resumption Requirements

The are the criteria for any disruption to the testing process and workflow.

### Suspension Criteria

Testing for a particular functoinality is to be suspended once a bug has been identified. Sub-sequential behaviour can not be deemed reliable for testing once bugged methods are used.

### Resumption Criteria

Testing for particular functionalities can be resumed once any identified bugs have been corrected by the developers.

## Test Completeness

The initial testing process will be considered completed when all methods have been carried out and all data has been recorded. The final testing process will not be considered finished until all functional and non-functional requirement tests have passed.

Bugs will not hinder the testing process providing they do not affect functionality (class 3 or higher bugs are acceptable).

## Test Deliverables

Below is a list of deliverables to be expected upon the completion of the testing process.

* Test Plan (this document)
* Test Cases
* Requirement Traceability Matrix
* Test Metrics
* Customer Sign Off

# Resource & Environment Needs

## Testing Tools

The following tools are required to test the software:

* A modern web browser (Such as Google Chrome or Mozilla Firefox)
* A text editor (Such as VS Code or Notepad++)
* A code cleaner (Such as PHPCodeSniffer)
* GitKraken GUI client (For access to Bugs/Issues board)

## Test Environment

Below outlines the minimum hardware requirements that will be used to test the Application.

* [No minimum requirements]

The test environment is required to have one of the following operating systems installed:

1. Windows XP Service Pack 2 and above
2. Android Jellybean
3. Mac OS X

# Business Requirements

## Business Requirement Identifcation

The below table defines the business requirements for the current sprint.

|  |  |
| --- | --- |
| **Code** | **Requirement Description** |
| BR1 | Website is perceivable. |
| BR2 | Website is operable. |
| BR3 | Website is understandable. |
| BR4 | Website is robust. |

## Requirements Traceability Matrix

Below is the requirements traceability matrix outlining the cases responsible for the testing of the individual business requirements.

|  |  |  |  |
| --- | --- | --- | --- |
| **Business Requirement** | **Test Case #** | **Defects** | **Status** |
| BR1 | 1 – 4 | - | Satisfied |
| BR2 | 5 – 8 | - | Satisfied |
| BR3 | 9 - 11 | - | Satisfied |
| BR4 | 3, 4, 12 | - | Satisfied |

# Test Cases

## Test Case Results Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Requirement** | **Guideline** | **Page Comment** | **Success** |
| 1 | Perceivable | Provide text alternatives for any non-text content so that it can be changed into other forms people need, such as large print, braille, speech, symbols or simpler language. | Alternative text is provided with every displayed image. | PASS |
| 2 | Time-based media: Provide alternatives for time-based media. | Alternative provided for background videos. | PASS |
| 3 | Create content that can be presented in different ways (for example simpler layout) without losing information or structure | All pages uses a hybrid of adaptive and responsive designs. | PASS |
| 4 | Make it easier for users to see and hear content including separating foreground from background. | Stylesheets have been used to conform to a uniform style. The pages headings have been styled to contrast from normal text content and images.  Background includes a semi-opaque filter panel reducing the contrast of the background video against the foreground content. | PASS |
| 5 | Operable | Make all functionality available from a keyboard. | Website is navigatable through keyboard use only. | PASS |
| 6 | Provide users enough time to read and use content. | Error/Warning messages are kept short and to the point, and displayed for 5 seconds. All other text is not time-based. | PASS |
| 7 | Do not design content in a way that is known to cause seizures. | All content has been designed to avoid repetitive, flashing and high contrasting imagery. | PASS |
| 8 | Provide ways to help users navigate, find content, and determine where they are. | Each page is labelled with a vertical text label indicating which page the user is currently on.  The menu follows standard modern menu conventions, making it easy to find and use. | PASS |
| 9 | Understandable | Make text content readable and understandable. | All text is sized appropriately, with a legible font and written in a coherent manner. | PASS |
| 10 | Make web pages appear and operate in predictable ways. | The website operates in predictable ways with expected behaviour.  Navigation and other clickable links are demonstrated to the user with unqiue stylings. | PASS |
| 11 | Help users avoid and correct mistakes. | Error trapping and warning messages are provided to the user during processes which could involve an error or un-expected outcome. | PASS |
| 12 | Robust | Maximize compatibility with current and future user agents, including assistive technologies. | Each webpage uses adaptive and responsive design elements to ensure it will perform as intended on small devices (such as Apple Watch 400x400px) as well as large devices (scaling upwards of 1920x1080px). | PASS |

## Test Case Screenshots

|  |  |
| --- | --- |
| **#** | **Screenshot** |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 | No screenshot available. |
| 6 |  |
| 7 | No screenshot available. |
| 8 |  |
| 9 |  |
| 10 |  |
| 11 |  |
| 12 |  |

# Terms/Acronyms

| TERM/ACRONYM | DEFINITION |
| --- | --- |
| API | Application Program Interface |
| AUT | Application Under Test |
| RAD | Rapid Application Development |
| GUI | Graphical User Interface |
| RTM | Requirement Traceability Matrix |