**Test plan for**

**Ecommerce Store**

*ChangeLog*

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Change Date** | **By** | **Description** |
| version number | Date of Change | Name of person who made changes | Description of the changes made |
| 1.0.0 |  |  |  |
|  |  |  |  |

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# Introduction

The testing strategies that we will be using is unit testing and real time user testing

## Scope

### In-Scope

We will test all the functions related to the buyer, seller, admin, and owner as well as the shopping cart. We will also be testing things such as how fast it takes to load the pages and if there are any possible security errors that occur along the way.

Buyer – Test the functionality of things such as adding an item to a cart, comparing items, and viewing items on a main page, we will also test if the buyer’s page is functioning properly and everything is going as expected.

Seller – Testing the functionality and error handling of things such as listing an item, removing a listing, setting a price for an item, and changing the quantities of each item, also making sure the front-end thing such as the buttons are linked correctly and functioning as needed.

Admin – Testing functions such as blocking users, setting sellers, and removing items from a seller’s listing. The admin should be able to access a page limited to only them with these functions and should only be allowed to be accessed by Admins.

Owner – Owner will be testing the same functionalities as the admin with another function that can set Admins. Only the owner should be able to access this page and we want to make sure that all of these functions work properly and go with the correct command and button.

We will also have functions that go along with all of the users such as deleting an account and logging out properly so that there is safety.

All of these functions will be tested by using built-in test features from our framework, Node.js.

We will also implement real-time testing by running the program ourselves and trying things that could possibly cause errors and fixing any that may occur during that time.

### Out-of-Scope

Features that will not be tested will be things such as

## Quality Objective

Here make a mention of the overall objevtie that you plan to achive withou your testing

Some objectives of your testing project could be

* Ensure the Application Under Test conforms to functional and non-functional requirements
* Ensure the AUT meets the quality specifications defined by the client
* Bugs/issues are identified and fixed before go live

## Roles and Responsibilities

Detail description of the Roles and responsibilities of different team members like

* QA Analyst
* Test Manager
* Configuration Manager
* Developers
* Installation Team

Amongst others.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Net ID** | **GitHub username** | **Role** |
| Aaron Le | Adl409 | Adl409 | Project Team Leader |
| Wen Chen | Wxc3 | Wchen2654 | Front-End Development |
| Nathan Lechner | Nml162 | Na7hanL | Database Creation |
| Scott Hoerchler | Slh838 | Rien98 | Back-End Development |

# Test Methodology

## Overview

Mention the reason of adopting a particular test methodology for the project. The test methodology selected for the project could be

* WaterFall
* Iterative
* Agile
* Extreme Programming

The methodology selected depends on multiple factors. You can read about Test Methodology [here](http://www.guru99.com/testing-methodology.html)

## Test Levels

**Test Levels define the Types of Testing (Unit Test, Integration Test, etc…) to be executed on the Application Under Test (AUT**). The Testing Levels primarily depends on the scope of the project, time and budget constraints.

## Bug Triage

The goal of the triage is to

* To define the type of resolution for each bug
* To prioritize bugs and determine a schedule for all “To Be Fixed Bugs’.

## Suspension Criteria and Resumption Requirements

Suspension criteria define the criteria to be used to suspend all or part of the testing procedure while Resumption criteria determine when testing can resume after it has been suspended

## Test Completeness

Here you define the criterias that will deem your testing complete.

For instance, a few criteria to check Test Completeness would be

* 100% test coverage
* All Manual & Automated Test cases executed
* All open bugs are fixed or will be fixed in next release

# Test Deliverables

Here mention all the Test Artifacts that will be delivered during different phases of the testing lifecycle.

Here are the sample deliverables

|  |
| --- |
| * Test Plan * Test Cases * Requirement Traceability Matrix * Bug Reports * Test Strategy * Test Metrics * Customer Sign Off |

# Resource & Environment Needs

## Testing Tools

Make a list of Tools like

* Requirements Tracking Tool
* Bug Tracking Tool
* Automation Tools

Required to test the project

## Test Environment

It mentions the minimum **hardware** requirements that will be used to test the Application.

Following **software’s** are required in addition to client-specific software.

1. Windows 8 and above
2. A coding environment with the framework Node.js and its testing features
3. Databasing software MySQL as well as XAAMP to run the website.

# Terms/Acronyms

Make a mention of any terms or acronyms used in the project

| TERM/ACRONYM | DEFINITION |
| --- | --- |
| API | Application Program Interface |
| AUT | Application Under Test |