***TEST SPECIFICATION***

**1.0 Introduction**

This section provides an overview of the entire test document. This document describes both the test plan and the test procedure.

**1.1 Goals and objectives**

The overall goals and objectives of the test process are described.

The goals and objectives of the testing process were to confirm that all 3 of the major sections of the program, User Interface, Backend Query Generation, and Database, met their functional and non-functional requirements both individually and as a system or to determine what errors caused the tests to fail.

**1.2 Statement of scope**

A description of the scope of software testing is developed. Functionality/features/behavior to be tested is noted. In addition any functionality/features/behavior that is not to be tested is also noted.

User Interface

* User Authentication
* Input Forms
* Design Clarity

Backend

* Security Against SQL Injection
* SQL Query Generation
* Database Connection

Database

* Database Structure
* Query Handling
* Database Conditionals

**2.0 Test Plan**

This section describes the overall testing strategy and the project management issues that are required to properly execute effective tests.

**2.1 Software to be tested**

The software to be tested is identified by name. Exclusions are noted explicitly.

The software to be tested was our inventory management system was the software that needed to be tested.

**2.3 Testing tools and environment**

A description of the test environment, including tools, simulators, specialized hardware, test files, and other resources is presented here.

We didn’t have tools to test the software besides testing out things that we would think would break our code when inputted.

**2.4 Test schedule**

A detailed schedule for testing is described.

Our test schedule consisted of making a function testing that function to see if we could improve. This usually meant we coded during the weekday and tested on the weekends where we knew we were all available to give input and feedback.

**3.0 Test Cases**

This section enumerates a complete list of test cases for the software. A template for test cases is as follows.

|  |  |
| --- | --- |
| ID | **Inputting non unique keys** |
| Test Input | **Two user ids with the same name** |
| Expected Output | **An error letting the user know name already exist** |
| Description | **Our data is the most important part of our system so getting these keys correctly set up will make our software functional** |

ID: Running exe on win 11

Test input: Launched ex on a win11 computer

Expected output: launch on the win11 device.  
Description: We were having trouble getting the exe to launch on any device that didn’t have windows 10 installed I had to tweet the creation of the device to get it to launch on windows 11

ID: Search function test with item description  
Test Input: typing in the description of the item and it finding the item

Expected Output: The item to show even if the name wasn’t entered into the search function

Description: Our function should work with item name or item description so if you are looking for a beverage you can find all items that meet that description