**ADDIS ABABA UNIVERISITY**

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**CENTER OF INFORMATION TECHNOLOGY AND SCIENTIFIC COMPUTING**

**DEPARTMENT OF SOFTWARE ENGINERRING**

**Management System for Gead General Trading PLC**

**Test Plan Document**

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# **1.** **Introduction**

## **1.1 Purpose**

The purpose of our test plan is to uncover and report as many bugs as possible to increase our system reliability and to ensure the right product is developed.

# **2. Features to be tested/not be tested**

## **2.1 Features to be tested**

The followings are features to be tested:

* User login
* Add item
* Add Transaction
* Add Staff Member

* Generate Report

## **2.2 Features not to be tested**

The followings are features not to be tested:

* view staff information
* View stock information
* View transaction information

This features were selected to not be included in the testing plan, mainly for reasons of priority. The development team considers this features to be less important compared to the features chossen to be tested. This decision does not reflect the usefulness of this features, rather the team considers this features to be less prone to bugs or other technical issues and has given them a lesser prority.

# **3. Pass/Fail Criteria**

The success /fail criteria are the following:

* If the actual output and the expected result are the same the pass/fail criteria is “success or pass”
* If the actual output and the expected result are different the pass/fail criteria is “fail”.

# **4. Approach/Strategy**

The approach chosen for testing is a reactive one. This approach follows on the principle that testing is not started until after design and coding are completed.

The types of testing employed will include functional and user interface testing. Alpha testing is also conducted for testing some of the features. This type of acceptance testing, helps in identifying all possible bugs. The motivation for using alpha testing was mainly to assist in the UI testing process.

Testing tools are also used to support and automate some of the testing activities we perform. The codeigniter built-in unit testing tool is used for testing some of the server-side implementations and Qunit is used for testing the client-side implementation.

# **5. Test cases with specifications**

## **5.1 User login**

Table 1 - Test case specification for User Login

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name**: User login | | | | |
| **Purpose**: To login to the system | | | | |
| **Test Data =** Username (invalid username, valid username, empty)  Password (invalid , valid, empty) | | | | |
| **Input** | **Expected result** | **Data** | **Actual output** | **Pass/fail** |
| Invalid username and invalid password | “Invalid Username and password” | Unregistered username and unregistered password | “Invalid Username and password” | pass |
| Valid username and valid password | Redirect to the desired page | registered username and registered password Redirect to the desired page | Redirect to the desired page | pass |
| Invalid username and valid password | “Invalid Username and password” | Unregistered username and registered password | “Invalid Username and password” | pass |
| valid username and invalid password | “Invalid password” | registered username and unregistered password | “Invalid Username and password” | fail |
| Empty username and valid password | “Username field required” | No username and registered password | “Username field required” | pass |
| Empty username and invalid password | “Username field required” | No username and unregistered password | “Username field required” | pass |
| Valid username and empty password | “Password field required” | registered username and no password | “Password field required” | pass |
| Invalid username and empty password | “Password field required” | Unregistered username and no password | “Password field required” | pass |

## **5.2 Add Item**

Table 2 - Test case specification for Add Item

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name**: Add Item | | | | |
| **Purpose**: to add item to stock | | | | |
| **Test Data =**  Item name(valid, invalid)  Quantity(valid,invalid)  Unit Price(valid,invalid) | | | | |
| **Input** | **Expected result** | **Data** | **Actual output** | **Pass/fail** |
| Valid Item name, valid Quantity, valid Unit Price | “item added successfully” | Any alpha-numeric item name, any numeric quantity, any numeric unit price | “item added successfully” | Pass |
| Valid Item name, valid Quantity, invalid Unit Price | “enter a numeric value” | Any alpha-numeric item name, any numeric quantity, any non-numeric unit price | Error message | Fail |
| Valid Item name, invalid Quantity, valid Unit Price | “enter a numeric value” | Any alpha-numeric item name, any non-numeric quantity, any numeric unit price | Error message | Fail |
| Valid Item name, invalid Quantity, invalid Unit Price | “enter a numeric value” | Any alpha-numeric item name, any non-numeric quantity, any non-numeric unit price | Error message | Fail |
| invalid Item name, valid Quantity, valid Unit Price | “Item name field is required ” | Null item name, any numeric quantity, any numeric unit price | “Item name field is required ” | Pass |
| invalid Item name, valid Quantity, invalid Unit Price | “Item name field is required ” | Null item name, any numeric quantity, any non-numeric unit price | Error message | Fail |
| invalid Item name, invalid Quantity, valid Unit Price | “Item name field is required ” | Null item name, any non-numeric quantity, any numeric unit price | Error message | Fail |
| invalid Item name, invalid Quantity, invalid Unit Price | “Item name field is required ” | Null item name, any non-numeric quantity, any non-numeric unit price | Error message | Fail |

## **5.3 Add Transaction**

Table 3 - Test case specification for Add Transaction

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name**: Add Transaction | | | | |
| **Purpose**: to add transactions | | | | |
| **Test Data =**  Quantity(valid, invalid)  Amount Given (valid,invalid)  VAT(valid,invalid)  Discount(valid,invalid)  Customer Name(valid,invalid)  Customer Phone(valid,invalid)  Customer TIN(valid,invalid) | | | | |
| **Input** | **Expected result** | **Data** | **Actual output** | **Pass/fail** |
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## **5.4 Generate Report**

Table 4 - Test case specification for Generate Report

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name**: Generate Report | | | | |
| **Purpose**: to generate report | | | | |
| **Test Data =**  From date(valid, invalid)  To Date (valid,invalid) | | | | |
| **Input** | **Expected result** | **Data** | **Actual output** | **Pass/fail** |
| Valid valid |  |  |  |  |
| Valid invalid |  |  |  |  |
| Invalid valid |  |  |  |  |
| Invalid invalid |  |  |  |  |

## **5.5 Add Staff Member**

Table 5 - Test case specification for Add Staff Member

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name**: Add staff member | | | | |
| **Purpose**: to add a staff member | | | | |
| **Test Data =**  First Name (valid, invalid)  Last Name (valid,invalid)  Address (valid,invalid)  Salary (valid,invalid) | | | | |
| **Input** | **Expected result** | **Data** | **Actual output** | **Pass/fail** |
|  |  |  |  |  |
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