**TEST PLAN FOR INVENTORY MANAGEMENT SYSTEM (I.M.S)**

**1.0 Introduction**

The Test Plan document documents and tracks the necessary information required to effectively define the approach to be used in the testing of Inventory Management System (I.M.S) Project. Its intended audience is the project manager, project team, and testing team. Some portions of this document may on occasion be shared with the client/user and other stakeholder whose input/approval into the testing process is needed.

**1.2 Purpose**

The purpose of this document is to describe in details the functionalities the Inventory Management System is expected to provide. It will explain the purpose and features of the system, the interfaces of the system, what they will do and the constraints under which it must operate. This document is intended for both the stakeholders and the developers of the system.

**1.3 Scope**

This system will cover input stock and output stock of Biosec Solutions.

**1.4 Definition, acronyms and abbreviations**

|  |  |
| --- | --- |
| Term | Definition |
| Input Stock | Materials/Supplies/Items received from suppliers or manufactures |
| Output Stock | Materials/Supplies/Items out of the store sent to external concerns |
| User | Anyone using the Inventory system |
| Requesting Officer | The officer that initiates request |
| Approving Officer | The officer that approves request of ordered items |
| Receiving officer | The officer that receives or collects stock |

**2.0 Functional Requirements**

1. The system should creation of users

2. The system should allow allocation of different levels of access/privileges to users

3. The system should require authentication through passwords or other means of users.

4. The Inventory System should have a log on window, to limit access to authorised users and for managing users.

5. The system should be used to keep records of all supplied to or taken out of Biosec store.

6. The system should have the input stock and output stock in the inventory.

7. Accepts inputs from the user for update of input stock and output stock.

8. Should enable users, with appropriate rights; initiate an online requests, approvals and feedbacks.

9. Should be able to initiate and send emails and reminders online, to concern parties automatically based on request.

10. The inventory system should be able to generate daily weekly and monthly reports.

11. Should maintain audit log that shows users, login details and activity during log on period.

12. The inventory system should be scalable to allow for upgrade and patches.

13. Should allow both request and approval to be recalled/cancelled by the user or initiator.

14. Dating and the time for performing any activity in the inventory system should be automatic.

15. The date and time fields should not be editable.

16. Should be able to manage more than one product.

17. Should be able to prompt compulsory validation and review window before saving data entry, sending requests and approvals.

**3.0 Non Functional Requirements**

**3.1 Request/Order**

This is the interface that is used to initiate a fresh request or restock request.

The specification/requirements of the interface are, but not limited to the following:

1. Name of requesting officer should be captured from the login credentials.

2. The interface should have a dropdown pane for user to choose either fresh/new request or restock request, cash request and take stock form.

3. Should have the following fields for manual data input.

a. Request number

b. Requesting officer

c. Approving officer

d. Receiving officer

e. Date of Request

f. Product

g. Quantity

h. Category

4. The system should have Inventory console

5. It should have Management Console and Reports log.

a. The report console should be a dropdown containing logs account details links.

**3.2 Regulatory/Compliance Requirements**

1. The Inventory Management System will have an audit trail

2. The Inventory Management System will limit access to authorized users only.

3. It should allow for user login and password at each use.

**4. 0 Test Types Intended**

To ensure high Quality, I.M.S will undergo through Functionality Test, Compliance Test, User Acceptance Test and Performance Test.

**4.1** **Items to be tested/ not tested**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item to Test** | **Test Description** | **Test Date** | **Responsibility** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**4.1 Test Approach**

The test approach is will be based on the developed cases from the Business Requirement Document (BRD) and System Requirement Specifications (SRS).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Project Name | Inventory Management System (I.M.S) | | | |
| QA Officer | JOHN KELVIN AONDOAKAA | | | |
| Module Name | Functional Requirements | | | |
| Module Role |  | | | |
| Test Description |  | | | |
| TEST #ID | TEST CASE | EXPECTED RESULT | ACTUAL RESULT | PASS/FAIL |
| 1. |  |  |  |  |
| 2. |  |  |  |  |

**4.2** **Test Pass/Fail Criteria**

Tests executed against the Compliance requirements, functional requirements, user acceptance and performance requirements will be used cases to determine pass or fail. If a test exhibits a product failure to meet the objectives of any of the requirements or the use cases, will fail and a defect/issue will be reported in the defect report.

**4.3** **Test Entry/ Exit Criteria**

The Software Testing Life Cycle (STLC) specifies the entry criteria required during each testing phase. It also specifies the time interval or required amount of lead time to make the entry criteria item available to the process. The inputs can be divided into two categories inputs received from development and inputs produced from the test phases at the end of STLC.

**5.0** **Test Deliverables**

The test deliverables for I.M.S include the Test plan, Test cases, defect report, and Recommendations.

**5.1 Test Plan Approval**

The undersigned acknowledge they have reviewed the I.M.S Test Plan document and agree with the approach it presents. Any changes to this Requirements Definition will be coordinated with and approved by the undersigned or their designated representatives.

Signature: ---------------------------------- Date: -----------------------------

Name: -------------------------------------------- Date: -----------------------------

Role: --------------------------------------------- Date: -----------------------------

Signature: ---------------------------------- Date: -----------------------------

Name: -------------------------------------------- Date: -----------------------------

Role: --------------------------------------------- Date: -----------------------------

Signature: ---------------------------------- Date: -----------------------------

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