October 29, 2023

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| A magnifying glass over a box  Description automatically generated    INVENTORY CONTROL SYSTEM Test Plan | Cortes  CIST 2931: Advanced Systems Project |

**Functional Test Plan Template**

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| **PROJECT NAME** | ***Inventory Control System*** | | | **AUTHOR OF THIS TEST PLAN** | | ***Luis Cortes,***  ***Project Manager*** |
| **TESTING GOALS** | This is the functional test, and its completion is mission critical. All functional requirements for the project’s bones will be tested to ensure base competencies are achieved. These tests ensure proper connection to SQL server and data validation is taking place. Critical functions will also be tested for correct functionality in conjunction with main and UI functions. Testing will be conducted over a week and will touch each piece of functionality each day. Testing will be concluded when all test cases are passed. | | | | | |
| **TESTING START DATE** | 10/29/2023 | **TESTING END DATE** | 11/05/2023 | | **OVERALL PROJECT PROGRESS** | 60% |
| **SCOPE** |  | | | | | |

**Table 2. Features Included in Testing**

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| **FEATURE ID** | **NAME/DESCRIPTION** |
| **UI-NAV-FT1** | UI navigation functional test 1:  Test user interface for base functionality   * User log-in functionality * All buttons functionality * All visual features loaded * Drop down menu functionality |
| **CORE-DATA- FT1** | Core functional test 1:  Test core functionality of database function   * View function shows items from database * Items show correct attributes from database * Sort function displays correct items * Search function reports correct items |
| **POSTOCK-FT1** | Push Overstock functional test 1:  Test push overstock function for core functionality   * Menu loads properly * All buttons functionality * Correct items display – items boh above shelf capacity that drop below shelf cap |
| **PUPDATES-FT1** | Price Update functional test 1:  Test price update function for core functionality   * Menu loads properly * All buttons functionality * Correct items display – items below allowed % of profit |
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**Table 3. Features Not Included in Testing**

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| **Requirement ID** | **NAME/DESCRIPTION** | **Reason for Exclusion** |
| **MUI-NAV-FT1** | Mobile UI navigation functional test 1:  Test mobile user interface for base functionality   * User log-in functionality * All buttons functionality * All visual features loaded   Drop down menu functionality | Function not implemented yet |
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**Functional Test Cases**

The following test cases will be created and executed against the application.

***Example:***

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| **Test Case Field** | **Details** |
| Test Case ID: Test Case Name | 1: Successful login |
| Purpose | Tests that the user can log in with a proper username and password. |
| Initiation Criteria | All cookies cleared and user must not be logged in. |
| Execution Steps | 1. Navigate to Web site.  2. Enter a valid user name.  3. Enter a valid password.  4. Click enter button. |
| Expected Results | User is logged in to Web site and the main page is displayed with user name in welcome message. |

**Table 4. Test Cases**

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| **Test Case Field** | **Details** |
| UI-NAV-FT1: UI navigation functional test 1 | 1: Successful Login  2: Successful load of buttons and UI elements |
| Purpose | Test UI for appearance and login functionality. |
| Initiation Criteria | Fresh boot, user not signed in. |
| Execution Steps | 1. Open program 2. Log in with invalid credentials 3. Log in with valid credentials 4. View menu 5. Drop down open |
| Expected Results | Invalid credentials fail log in, prompting for valid input. Valid input allows access. All menu items load, and inventory appears from database. Drop down opens correct items. |

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| **Test Case Field** | **Details** |
| CORE-DATA- FT1: Core functional test 1 | 1. Successful load of database elements 2. Successful sorting function 3. Successful search function |
| Purpose | Test core database functionality for program. |
| Initiation Criteria | Fresh boot, successful sign in. |
| Execution Steps | 1. Open program 2. Log in with valid credentials 3. Sort by each option 4. Search item name 5. Search item category |
| Expected Results | Database loads items properly, items properly sort by each option. Search loads items by name and category typed in. |

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| **Test Case Field** | **Details** |
| POSTOCK-FT1: Push Overstock functional test 1 | 1. Successful load of push overstock menu 2. Successful item load after BOH change |
| Purpose | Test overstock function |
| Initiation Criteria | Fresh boot, successful sign in. BOH change in item. |
| Execution Steps | 1. Open program 2. Log in with valid credentials 3. Select overstock function 4. Change BOH on item |
| Expected Results | Items with a change in BOH below shelf capacity will appear with an alert in menu |

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| **Test Case Field** | **Details** |
| PUPDATES-FT1: Price Update functional test 1 | 1. Successful load of price update menu 2. Successful item load after cost change |
| Purpose | Validate price update functionality. |
| Initiation Criteria | Fresh boot, successful sign in. Cost for item change. |
| Execution Steps | 1. Open program 2. Log in with valid credentials 3. Select price update function 4. Change cost on item |
| Expected Results | Item appears in price update menu after its’ cost is changed to be higher then threshold. |

**TEST PLAN APPROVAL**

The undersigned acknowledge they have reviewed the Inventory Control System **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.

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| Signature: | Luis Cortes | Date: | 10/29/2023 |
| Print Name: | Luis Cortes |  |  |
| Title: | Manager |  |  |
| Role: | Project Manager |  |  |

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| --- | --- | --- | --- |
| Signature: |  | Date: | 10/29/2023 |
| Print Name: | Rabia Mehdi |  |  |
| Title: | Lead |  |  |
| Role: | Lead Developer |  |  |

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| --- | --- | --- | --- |
| Signature: | Kegan Oyeronbi | Date: | 10/29/2023 |
| Print Name: | Kegan Oyeronbi |  |  |
| Title: | Lead |  |  |
| Role: | Lead IT member |  |  |