**Team C#**

**Self-Checkout**

**Test Plan**

**Revision History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Authors** | **Description of Change** | **Sections** | **Rev** | **Date** |
| Luis Cornejo | Initial Commit | All | 1.0 | 4/24 |
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# Team Description

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# Test Description

The following tests will validate that the software follows our requirements. Every part of the interface should be examined for correct behavior, including all buttons and user modes.

## Test Platform / Hardware / Environment

Our self-checkout software will be tested on a laptop with Microsoft windows installed. We will use the Visual Studio IDE to debug our software.

## Test Definition

### Add an item to the virtual cart

Requirements: RID-001 RID-002 RID-003 RID-004 RID-005 RID-006 RID-007 RID-011

Description: This will test that purchasable items are correctly displayed in the InvView and that they transfer correctly to the cart. The inventory count should also be updated. The Call for Assistance button and the Checkout button should appear.

### Checkout a purchase

Requirements: RID-007 RID-008 RID-009 RID-010

Description: The clicking of the checkout button should send a purchase order to the owner, empty the virtual cart, and reset the running total to zero.

### Click Call for Assistance

Requirements: RID-011 RID-012

Description: Clicking the call for assistance button should bring up a login screen.

### Delete an item

Requirements: RID-013 RID-014 RID-015 RID-016 RID-017

Description: After logging in, a delete button for each item should be visible. Clicking this button should result in the corresponding item being removed from the cart and added back to the inventory. The cart total should be updated to reflect this. The employee should also be able to log out.

### View inventory file

Requirements: RID-018 RID-019

Description: The manager will have a unique log in that is distinct log in that allows him to access the files produced by the Self-Checkout system.

### Update inventory

Requirements: RID-020 RID-021

Description: The manager will be able to modify the inventory by editing entries in the inventory file

### Update inventory in real time

Requirements: RID-022

Description: Modifying the inventory should be reflected in the Self-Checkout system if it is running.

### Add zero count items

Requirements: RID-023

Description: The system accepts items with count of zero. They will be retained but not displayed.

### Add duplicate items

Requirements: RID-024 RID-025 RID-026

Description: If there are duplicated itemIDs in the inventory file, only the first should be displayed and the manager should be notified

### Access the manager command line

Requirements: RID-027 RID-028

Description: The manager has access to a command line interface that shows the inventory and all transactions.

## Verification Cross Reference Matrix

|  |  |
| --- | --- |
| **Requirement Identifier** | **Where Tested** |
| RID-001 | 2.2.1 Add an item to the virtual cart |
| RID-002 | 2.2.1 Add an item to the virtual cart |
| RID-003 | 2.2.1 Add an item to the virtual cart |
| RID-004 | 2.2.1 Add an item to the virtual cart |
| RID-005 | 2.2.1 Add an item to the virtual cart |
| RID-006 | 2.2.1 Add an item to the virtual cart |
| RID-007 | 2.2.1 Add an item to the virtual cart  2.2.2 Checkout a purchase |
| RID-008 | 2.2.2 Checkout a purchase |
| RID-009 | 2.2.2 Checkout a purchase |
| RID-010 | 2.2.2 Checkout a purchase |
| RID-011 | 2.2.1 Add an item to the virtual cart  2.2.3 Click call for assistance button |
| RID-012 | 2.2.3 Click call for assistance button |
| RID-013 | 2.2.4 Delete and item |
| RID-014 | 2.2.4 Delete and item |
| RID-015 | 2.2.4 Delete and item |
| RID-016 | 2.2.4 Delete and item |
| RID-017 | 2.2.4 Delete and item |
| RID-018 | 2.2.5 View inventory file |
| RID-019 | 2.2.5 View inventory file |
| RID-020 | 2.2.6 Update inventory |
| RID-021 | 2.2.6 Update inventory |
| RID-022 | 2.2.7 Update inventory in real time |
| RID-023 | 2.2.8 Add zero count items |
| RID-024 | 2.2.9 Add duplicate items |
| RID-025 | 2.2.9 Add duplicate items |
| RID-026 | 2.2.9 Add duplicate items |
| RID-027 | 2.2.10 Access the manager command line |
| RID-028 | 2.2.10 Access the manager command line |