

<Team C#>
<Self-Checkout>
Written Requirements

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Revision History

Authors	Description of Change	Sections	Rev	Date
Yousef Roushdy	Intial Content	CPSC 362-01	1.0	03/7
Momtaz Afredi	Filled out the rest	CPSC 362-01	1.1	03/14

1 Team Description

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2 Terminology

The following table defined terms used within this document.

<define key terms used in your document that would not be commonly understood. Any terminology that is key to your system should be defined here. Any term you invented or that have special meaning within the context of your system should be defined here. Remove this blurb before completing document.>

Term	Definition
Virtual-Cart	The cart that holds your items to calculate totals

3 <Self-Checkout>

3.1 Overview

The Self Checkout Program will start by presenting the user with a GUI of an empty cart. As the user scans (or inputs) the products that they wish to purchase, the screen will update the cart with the products they wish to leave with. At the same time, the running total will be incremented based on the price of each item and the quantity of items they wish to purchase. At the customer level, the only options available on the screen are to add an item to the cart, call an assistant, and checkout. If a user wishes to remove an item from their cart they need to call an assistant. The employee will then be prompted to enter their password or passcode on the same system and this will allow them to remove items from their cart. The third user is the manager and they have access to all options the customer and employee have but they are able to manipulate the inventory.

3.1.1 <User>

3.1.1.1 <Add item to virtual cart>

The user will be able to add their item into the virtual cart in order to proceed to checkout.

3.1.1.2 <Checkout>

Total up the price of all items and allow user to “checkout” (pay by cash or card). This will also deduct the items from the stores overall inventory.

3.1.1.3 <Remove Item>

User can call for employee help in order to remove an unwanted item from the virtual cart.

3.1.2 <Employee>

Employee can remove an item from the virtual Cart.

3.1.3 <Manager>

Manager will be able to update inventory (update individual items quantity and price as well as add new items or remove existing items).

Guidelines – remove these from your document

Write at least ten to twenty text requirements that describe the key features of your system. This description should encompass all important functionality of your system. A person reading the document should be able to understand what the system does without any external references. Assume the audience for this document has the typical knowledge of a software engineer. Do not reference any implementation details. Describe what the system does, not how it does it.

Use grammatically correct and concise language.

Use a uniform level of detail.

Once defined, terminology such as “the user” and “the system” are generally appropriate.

Reuse of material from use-case and class diagram is OK, but make sure it is all shaped into the proper form.

The word “shall” indicates a testable requirement. **Bold this word.**

Use indentation to clarify the structure of the documents.

Do not write “shall not” requirements. They are problematic to test.

AND Requirements

Item will be put into virtual cart, action **shall** be taken when **all of** the following conditions are met:

- User scans or enter right id of item
- The item is still available in the inventory

Remove item from virtual cart, action **shall** be taken when **all of** the following conditions are met:

- The user calls employee for help
- The employee enters correct password to remove item

Checkout from virtual cart, action **shall** be taken when **all of** the following conditions are met:

- All items are in the virtual cart
- User clicks to checkout items
- User asked to pay by cash or card
- User has enough funds to pay for items

Item will be added into inventory, action **shall** be taken when **all of** the following conditions are met:

- Manager able to update inventory
- Manager enters password to access inventory
- Item id and price entered into field for new item
- New item created into inventory by Manager

Item will be removed into inventory, action **shall** be taken when **all of** the following conditions are met:

- Manager able to update inventory
- Manager enters password to access inventory
- Enter id of item to remove
- id entered correctly, item now removed from inventory

Update item in inventory, action **shall** be taken when **all of** the following conditions are met:

- Manager able to update inventory
- Manager enters password to access inventory
- Enter id item to update
- id entered correctly, now able to update item price or quantity

OR Requirements

Item will not be put into the virtual cart, action **shall** be taken when **any of** the following conditions are met:

- User inputs wrong id of the item
- The item is not available in the inventory

Item not removed from virtual cart, action **shall** be taken when **all of** the following conditions are met:

- The user calls employee for help
- The employee enters incorrect password to remove item

User unable to checkout from virtual cart, action **shall** be taken when **all of** the following conditions are met:

- All items are in the virtual cart
- User clicks to checkout items
- User asked to pay by cash or card
- User does not have enough funds to pay for items

Item not able to be added from inventory, action **shall** be taken when **all of** the following conditions are met:

- Manager able to update inventory
- Manager enters wrong password to access inventory
- Item id and price not able to be entered into field for new item
- New item not created into inventory by Manager

Item not able to be removed from inventory, action **shall** be taken when **all of** the following conditions are met:

- Manager able to update inventory
- Manager enters password to access inventory
- Id entered of item to be removed is wrong
- Inventory not able to search for item to remove

Not able to update item in inventory, action **shall** be taken when **all of** the following conditions are met:

- Manager able to update inventory
- Manager enters password to access inventory
- Enter id item to update
- id entered incorrectly, not able to find item to update

Your system will be tested according to these requirements.