# SOFTWARE REQUIREMENTS SPECIFICATION

for

Whole Knockoffs Grocery Store

March 29, 2020

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### 1 Introduction

#### 1.1 Purpose

This document provides detailed requirements about the product our team is creating for the customer. This document is intended for the customers and the software team designing as a reference on the desired behaviors and requirements of the program.

#### 1.2 Scope

The Whole Knockoff Grocery Store (WKGS) program is intended to be a system to allow the Whole Knockoff grocery store to manage employees, track inventory, sell groceries online (using both delivery and in-store pickup), and give discounts to loyal shoppers. The WKGS website will allow customers to quickly see what is available to purchase at the grocery store using a storefront. The customer can select items that they wish to purchase for delivery or in-store pickup. After adding groceries to their virtual shopping cart, the customer can select if they would like the groceries delivered or available for in-store pickup. The customer can then purchase these groceries through the online portal. The website will also act as an employee hub where employees can be assigned work schedules and hours worked can be tracked. The system should also handle the inventory management for the entire store. The inventory should be able to communicate with the store's point of sale systems and website so that correct inventory is maintained when items are purchased. This will allow the store owners to know what items are instock and which items might need to be re-ordered.

### 1.3 Definitions, acronyms, and abbreviations

WKGS: Whole Knockoff Grocery Store

POS: Point of Sale system - Cash registers that are used to scan and sell groceries in-store

#### 1.4 References

< Placeholder > Do we need this?

#### 1.5 Overview

In section 2, the product will be given an overall description. Section 3 will describe in detail each of the features and their corresponding requirements.

# 2 Overall Description

The Whole Knockoffs grocery store will provide customers and employees alike a painless shopping and grocery store experience. Employees will be met with a seamless delivery and pickup process/system that eliminates the need for coordination among activities and employees. Customers will benefit similarly from the seamless intersection between item selection and delivery, making their shopping experience the easiest part of every customer's day.

Shoppers are will be met with an easy, convenient, user friendly item selection interface from the webpage. Coupling a simple, easy to use item selection interface with shopping cart and wish list capabilities our customer's customers will find the process from shopping list to checkout convenient and simplistic. In addition to the Whole Knockoff's online shopping experience there will be in store self-checkout options and traditional checkout procedures. All items, whether purchased through the web interface or instore, will be cataloged and will belong to a catalog of items in the database so that store operators can more easily keep track of merchandise needs and the quantities of all items stocked by the store.

#### 2.1 Product Perspective

This subsection of the SRS should put the product into perspective with other related products. If the product is independent and totally self-contained, it should be so stated here. If the SRS defines a product that is a component of a larger system, as frequently occurs, then this subsection should relate the requirements of that larger system to functionality of the software and should identify interfaces between that system and the software. A block diagram showing the major components of the larger system, interconnections, and external inter-faces can be helpful. This subsection should also describe how the software operates inside various constraints. For example, these constraints could include a) System interfaces;

- b)User interfaces
- c)Hardware interfaces;d)Software interfaces;
- e)Communications interfaces:
- f)Memory;
- g)Operations:
- h)Site adaptation requirements.

< The system is not expected to interface with any other systems outside the store webpage. The employee interface and customer facing portion of the webpage will be seperate but interface together on the same application. Although the webpage is standalone and will not or is not currently expected to be able to manage the needs of multiple stores but may be a necessary requirement for the future of the Whole Knockoffs brand expansion. >

#### 2.2 Product Functions

This subsection of the SRS should provide a summary of the major functions that the software will perform. For example, an SRS for an accounting program may use this part to address customer account maintenance, customer statement, and invoice preparation without mentioning the vast amount of detail that each of those functions requires. Sometimes the function summary that is necessary for this part can be taken directly from the section of the higher-level specification (if one exists) that allocates particular functions to the software product. Note that for the sake of clarity

a) The functions should be organized in a way that makes the list of functions understandable to the customer or to anyone else reading the document for the first time

b)Textual or graphical methods can be used to show the different functions and their relationships. Such a diagram is not intended to show a design of a product, but simply shows the logical relation-ships among variable

<

- Shopping list creation the shopping list creation tools will allow customers to build/fill their shopping carts with all of the items the desire to purchase and store the information for later purchase through the webpage or to take the shopping cart/list with them as they browse the store.
- Online checkout through the webpage will offer the ability to customers to purchase all or some of the items in their cart in addition to selecting the type of delivery/pickup they desire.
- Delivery/pickup of items functions to alert employees of the desire of the customer as to which preferred delivery method suites their lifestyle most comfortably, alerting employees to the method by which they are to aid the customer in obtaining their goods.

>

#### 2.3 User Classes and Characteristics

This subsection of the SRS should describe those general characteristics of the intended users of the product including educational level, experience, and technical expertise. It should not be used to state specific requirements, but rather should provide the reasons why certain specific requirements are later specified in Section 3 of the SRS.

< There are two main user classes, shoppers and employees. These two classes are broken down into paths for shoppers and roles for employees. >

#### 2.4 Constraints

This subsection of the SRS should provide a general description of any other items that will limit the developer's options. These include

a) Regulatory policies;
b) Hardware limitations (e.g., signal timing requirements);
c) Interfaces to other applications;
d) Parallel operation;
e) Audit functions;
f) Control functions;
g) Higher-order language requirements;
h) Signal handshake protocols (e.g., XON-XOFF, ACK-NACK);
i) Reliability requirements;
j) Criticality of the application;
k) Safety and security considerations.

< Placeholder >

### 2.5 Assumptions and Dependencies

This subsection of the SRS should list each of the factors that affect the requirements stated in the SRS. These factors are not design constraints on the software but are, rather, any changes to them that can affect the requirements in the SRS. For example, an assumption may be that a specific operating system will be available on the hardware designated for the software product. If, in fact, the operating system is not avail-able, the SRS would then have to change accordingly.

< Placeholder >

# 3 Specific requirements

#### 3.1 External Interface Requirements

#### 3.1.1 User Interfaces

< Placeholder >

#### 3.1.2 Hardware Interfaces

< Placeholder >

#### 3.1.3 Software Interfaces

< Placeholder >

#### 3.1.4 Communications Interfaces

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#### 3.2 System Features

#### 3.2.1 Online checkout

#### 3.2.1.1 Introduction/Purpose of feature

The checkout feature allows users to pay for their item(s) currently in the Cart list to complete their order. Depending on type of users, the feature should preload required user's information for the checkout process including: home address for delivery, billing address, and payment method. Furthermore, the users can specify payment and delivery options on the checkout page.

#### 3.2.1.2 Stimulus/Response sequence

Existing users/members: When the "Checkout" option is clicked, the system will direct the user to the checkout page. On the checkout page, certain user information should be preloaded to help ease the checkout process. The user will have the option to use saved payment information or a different payment method. In addition, the user can select different delivery options including: in-store pickup or home delivery. If a user chooses home delivery, the system will use the user's saved home address. If the user chooses in-store pickup by car, the system will request car model information. The user will need to click "Complete Order" to process the order. Guest users: When the "Checkout" option is clicked, the system will direct the user to the checkout page. On the checkout page, the user would need to fill in all the required information needed for the checkout process. The user must select the payment method; the system will ask for billing address and payment information. In addition, the user can select different delivery options including: in-store pickup or home delivery. If a user chooses home delivery, the system will request a home address. If the user chooses in-store pickup by

car, the system will request car model information. The user will need to click "Complete Order" to process the order.

#### 3.2.1.3 Associated functional requirements

#### 3.2.1.3.1 Functional requirement 3.1

ID: FR1

TITLE: Online checkout - Allow everyone to checkout online

DESC: The checkout feature should allow all users to pay for their item(s) currently in the Cart list to complete their order. Depending on type of users, the feature should preload and/or request required user's information for the checkout process including home address for delivery, billing address, and payment method. Furthermore, the users can specify payment and delivery options on the checkout page.

RAT: In order for all users to pay for their online order.

DEP: None

ID and Name: FR1 Allow everyone to checkout online

Created By	Thoai Mai	Date Created	03/15/2020			
Primary Actor	User	Secondary Actor	Website			
Description:	The checkout feature should let guest user complete online or-					
	der with the required	information, including	g payment and home			
	delivery/in-store picku	p options				
Trigger:	Guest user clicks on op	otion "checkout"				
Preconditions	None					
Postconditions	Guest user successfully	complete checkout for	or online orders, Pay-			
	ment received					
Normal Flow	Allow everyone to c		uest User			
	Guest user selects chec	•				
	Website checks for typ	=	pt for account login?			
	Direct for different req	=				
	Website established gu					
	Website validates accu	rate pricing with addi	tional taxes for total			
	price					
	Website requests guest ment information, billi		,			
	store pickup					
	Guest user select "Plac	ce Order" option				
	Website uses third pa	rty checkout system	to validate payment			
	transaction					
	If payment is successfully validated and received, website acknowl-					
	edges "Order Place" m	iessage				
Alternative Flow	None					
Exceptions	Payment did not succe	· ·				
	Guest user did not fill	in the required inform	nation			
Priority	High					

Created By	Thoai Mai	Date Created	03/15/2020					
Primary Actor	Member User	Secondary Actor	Website					
Description:	The checkout feature should let member user complete online or-							
	der with the required	der with the required information, including payment and home						
	delivery/in-store picku							
Trigger:	Member user clicks on							
Preconditions	Logged in as a member							
Postconditions	Member user successf	ully complete checkou	it for online orders,					
	Payment received							
Normal Flow	Allow everyone to c	${ m checkout\ online-M}$	lember User					
	Mombor ugor galagta ek	neelrout option						
	Member user selects checkout option Website checks for type of user							
	0 2	Website established member user						
	Website established in Website preloads mem		and address					
	Website validates accu							
	price	rate pricing with addi	tional taxes for total					
	Website requests memb	per user the following in	nformation: payment					
	information, billing address, option for home deliver or in-store							
	pickup Note: should w bers?	ebsite keep payment in	nformation for mem-					
	Guest user select "Place Order" option							
	Website uses third pa	rty checkout system	to validate payment					
	transaction							
	If payment is successful	· ·	ved, website acknowl-					
	edges "Order Place" m	nessage						
Alternative Flow	None							
Exceptions	Payment did not succe	ssfully validate						
Priority	High							

#### 3.2.2 Account Management System

#### 3.2.2.1 Introduction/Purpose of feature

This feature allows users to create and edit settings for grocery store accounts. New users will use this feature to populate basic account information while setting up their account such as username and password. In addition, this feature allows existing users a convenient way to edit their password, change shipping addresses, manage stored payment information, and change other stored personal details. From the user management profile, users will also be able to see past purchases and orders.

#### 3.2.2.2 Stimulus/Response sequence

New users: When the "sign up" button is pressed, the system will direct the user to select a username and password to create their account. After the user fills appropriate values into these fields, the user will be able to sign in using the credentials selected. Existing users: When the "log in" button is pressed, the system will direct the user to enter their credentials to sign into the system. Logged-in users: When a user is logged-in and presses the "my account" button, the user will be brought to a page where they can edit their personal details

#### 3.2.2.3 Associated functional requirements

#### 3.2.2.3.1 Functional requirement 3.1

ID: FR2

TITLE: Create a new User account

DESC: A user should be able to register through the website. The user must provide

user-name, password and e-mail address.

RAT: In order for a user to register an account

DEP: None

#### ID and Name: FR2 Create a User new account

Created By	Emmanuel .W	Date Created	03/13/20			
Primary Actor	User	Secondary Actor	Website			
Description:	A user should be able	to register through the	he website. The user			
	must provide a name,	user-name, password	and e-mail address.			
Trigger:	User Clicks on register					
Preconditions	None					
Postconditions Account is created, User is Logged in						
Normal Flow	Create a User new account					
	User Clicks on Registe	er Enters name, user-	name, password and			
	e-mail address.					
	Website confirms it is a	a unique entry and sav	e the new user details			
	Website Informs User	of successful creation				
	Website Logs user in					
Alternative Flow	None					
Exceptions	Email Address already	exists in the system				
Priority	High					

#### 3.2.2.3.2 Functional requirement 3.2

ID: FR3

TITLE: Create a new Staff account

DESC: An administrator should assign staff roles and permissions and an internal company email address

RAT: In order for a user/staff to register an account

DEP: None

#### 3.2.2.3.3 Functional requirement 3.3

ID: FR4

TITLE: Login into Account

DESC: Given that a user/staff has created an account, then the user should be able to

log in to his/her account.

RAT: In order to identify a user to shop online and use website/store's features or for

staff to access admin platform

DEP: FR2

#### 3.2.3 Inventory

#### 3.2.3.1 Introduction/Purpose of feature

The inventory stores information about the type, quantity, price and price of all the items that the grocery store stocks. The inventory feature allows different privileges to manage the store items according to the type of users. This feature will create items summary purchased by day, month and year. The user can assign what items to be on-sale. The feature updates item inventory after each completed consumer purchase.

#### 3.2.3.2 Stimulus/Response sequence

Inventory manager: Following options are available to an inventory manager

User: add/remove/update items from store inventory, assign items to be on-sale, can sort the items by date of purchased.

Existing users/members/guests: The users can only view the availability of store items on the store website.

#### 3.2.3.3 Associated functional requirements

#### 3.2.3.3.1 Functional requirement 3.1

ID: FR5

TITLE: Create a grocery item

DESC: An inventory Manager should be able to create a grocery item type, and should add the right classifications that apply to this grocery item.

RAT: In order for a Manager to register a new grocery item

DEP: None

#### 3.2.3.3.2 Functional requirement 3.2

#### ID: FR6

TITLE: Add quantity of grocery item DESC: The quantity of an item in the database should be able to be increased. This allows the store to replenish their inventory when new shipments arrive. RAT: In order to maintain a correct inventory DEP: FR5

#### 3.2.3.3.3 Functional requirement 3.3

#### ID: FR7

TITLE: Decrease quantity of grocery item DESC: The quantity of an item in the database should be able to be decreased. This allows the store to subtract from their inventory when they sell an item. RAT: In order to maintain a correct inventory DEP: FR5

#### 3.2.3.3.4 Functional requirement 3.4

#### ID: FR8

TITLE: Remove grocery items DESC: An inventory manager should be able to remove grocery items and add a reason for the removal eg. when they are expired. RAT: In order to remove grocery items for reasons order than purchase DEP: FR6

#### 3.2.4 Storefront System

#### 3.2.4.1 Introduction/Purpose of feature

This feature allows customers on the website to see which items the grocery store has available to purchase as well as the item price and description. From the digital store-front, customers can also add different quantities of products to their shopping list and shopping cart. Products sold by the grocery store are divided into different categories to allow customers to easily browse items of specific types. In addition, a search is available for customers to locate a specific item quickly.

#### 3.2.4.2 Stimulus/Response sequence

On the Storefront homepage/category page: Listing of items available should be displayed for the selected category/ area of the website (e.g. promotions on the homepage and fruit while in the produce category). When a specific item is selected on the page, the customer is brought to that item's description page. From the description page, a quantity of that item can be selected to add to the shopping cart.

#### 3.2.4.3 Associated functional requirements

#### 3.2.4.3.1 Functional requirement 3.1

ID: FR9

TITLE: Storefront homepage

DESC: When the user enters the website URL, they shall be brought to a homepage.

The homepage shall contain navigation buttons for the user.

RAT: So that a customer can navigate the website.

DEP: None

#### 3.2.4.3.2 Functional requirement 3.2

**ID:** FR10

does this show out of stock items but not allow purchase or hide out of stock items?

TITLE: Display items in inventory

DESC: When a category is selected, the storefront shall display all items matching the selected category that are in inventory.

RAT: So that a customer can quickly find items.

DEP: FR5

ID and Name: FR10 Display items in inventory

ib and rame. I	rero Display recini	, 111 111 011001 )				
Created By	Matthew M.	Date Created	03/14/20			
Primary Actor	Storefront	Secondary Actor	Inventory			
Description:	A user should be able	to register through the	ne website. The user			
	must provide a name, user-name, password and e-mail address.					
Trigger:	User selects category to	o filter by				
Preconditions	Items have category sp	ecified in the inventor	У			
Postconditions	The storefront displays	s only items that have	the listed category			
Normal Flow	The customer selects a	a store category from	the homepage of the			
	website					
	The website updates the	he list of displayed ite	ms with the selected			
	category					
Alternative Flow	None					
Exceptions	No items with the selection	cted category exist				
Priority	High					

#### 3.2.4.3.3 Functional requirement 3.3

#### ID: FR11

TITLE: Search for available items

DESC: When a search term is entered in the searchbox, the storefront shall display all items matching the query.

RAT: So that a customer can quickly find items.

DEP: FR5

#### 3.2.4.3.4 Functional requirement 3.4

#### **ID: FR12**

TITLE: Display item details

DESC: When the customer clicks on an item on the storefront, the item details are displayed. The details include a product description and price

RAT: So that a customer can know what they are buying

DEP: FR10

#### 3.2.4.3.5 Functional requirement 3.5

#### **ID: FR13**

TITLE: Display sale items to customers

DESC: When a customer logs-in to the website, the homepage shall display sale items

for.

RAT: So that a customer can know what they are buying.

DEP: FR4

#### 3.2.5 Shopping list/cart

#### 3.2.5.1 Introduction/Purpose of feature

The shopping list/cart feature allows the user to manage their selected item(s). The feature includes information on items' price, availability, and location in the store. In addition, the user can change the quantity of item(s) to be purchased or remove item(s) from the shopping list/cart.

#### 3.2.5.2 Stimulus/Response sequence

Existing users/members/guest: The users can edit item's quantity and remove item from shopping list/cart. When the users are satisfied with their selected items, they can click the "Checkout" option to begin the checkout process. Existing users/members: The users are allowed to save shopping lists to their account.

#### 3.2.5.3 Associated functional requirements

#### 3.2.5.3.1 Functional requirement 3.1

**ID:** FR14

TITLE: Fill your shopping cart

DESC: A user/member (must be logged in and have created an account) should be able to look through our online shopping catalog and select items to place in his/her shopping cart.

RAT: In order for a user to add items to their shopping cart from the catalog of items

DEP: Must be a member

ID and Name: FR14 Create your shopping cart

ID and Name. F		_ <u> </u>					
Created By	Howie Hill	Date Created	03/15/20				
Primary Actor	User	Secondary Actor	Website				
Description:	A user should be able	to register login thou	gh the website, shop				
	the catalog of online ite	ems, and add any in-s	tock items to his/her				
	shopping cart.						
Trigger:	User clicks add item to	shopping cart					
Preconditions	logged in as a registere	d user					
Postconditions	item/s in the shopping	cart					
Normal Flow	Compose shopping cart						
	User Clicks to search t	he catalog of online it	ems				
	Website shows the items						
	Next to each of the iter	ms there is an "add to	o cart" button				
	Button is clicked and t	he item is added to the	ne cart				
	now the user can search	th through all of the i	tems that have been				
	added to the cart and	go through his/her ca	atalog of items in the				
	cart						
Alternative Flow	None						
Exceptions	Item is out of stock						
	user is not registered/le	ogged in					
Priority	High						

#### 3.2.5.3.2 Functional requirement 3.2

#### **ID:** FR15

TITLE: Buy items from the shopping cart

DESC: Proceed to checkout from the shopping cart and buy all items in the shopping cart or a portion of the items in the shopping cart

RAT: Allow user to buy items that have been placed in the shopping cart

DEP: none

#### 3.2.6 Employee

#### 3.2.6.1 Introduction/Purpose of feature

The employee feature allows the management of employees' time cards and tasks. Managers will be able to assign different tasks such as delivery, gather online orders, etc. In addition, managers should be able to view and edit employee scheduled work days. The system should track and display information about employee hours worked and display it to managers.

#### 3.2.6.2 Stimulus/Response sequence

Managers: When users logged in as managers, they can assign tasks for employees daily. The manager should be able to view statistics about hours worked Employees: When users logged in as managers, they are able to check-in/check-out on their time card. They will see the tasks assigned for them to be completed.

#### 3.2.6.3 Associated functional requirements

#### 3.2.6.3.1 Functional requirement 3.1

**ID: FR16** 

TITLE: Employee login

DESC: All employees shall be able to log-in to the employee page.

RAT: So that employees view their schedules

DEP: none

#### 3.2.6.3.2 Functional requirement 3.2

**ID: FR17** 

TITLE: Add or remove employees

DESC: Managers and admins shall be able to add or remove employees from the com-

nany.

RAT: So that employees can know their position in the company

DEP: none

#### 3.2.6.3.3 Functional requirement 3.3

**ID: FR18** 

TITLE: Employee role

DESC: Employees must have a role such as manager, owner, cashier, etc... The employee role will dictate what features of the website to which the employee will have access.

RAT: So that managers can manage the company

DEP: FR17

#### 3.2.6.3.4 Functional requirement 3.4

#### **ID:** FR19

TITLE: Manager assign work days

DESC: Managers must be able to assign work days to employees. The manager must be able to set which hours for every day of the week for each employee.

RAT: So that employees can know which days to work

DEP: FR18

#### ID and Name: FR19 Manager assigns work days

Created By	Matthew M.	Date Created	03/123/2020					
Primary Actor	Manager(user)	Secondary Actor	Website					
Description:	Managers must be abl	Managers must be able to assign work days to employees. The						
	manager must be able	e to set which hours	for every day of the					
	week for each employed	e.						
Trigger:	Manager clicks on a u	ser to assign hours in	the work scheduler					
	portion of the website							
Preconditions	The employee exists ar							
Postconditions	User has hours assigned	ed for the next work	week stored for their					
	account							
Normal Flow	Manager assigns wo	ork hours						
			_					
	_	a user from a dropdow						
		a week from a dropdo						
	3. The website present that week	sents a week view for	each of the days of					
	4. The manager selects a day from the week view							
	5. The manager selects the start and stop time of the employees							
	shift from a dropdown box							
	6. The manager clic	cks "Save"						
	7. The website store	es the configuration to	the employee's profile					
Alternative Flow	None							
Exceptions	Employee is already we	orking in the selected	timeframe					
Priority	Low							

#### 3.2.6.3.5 Functional requirement 3.5

#### ID: FR20

TITLE: Employee view assignments

DESC: Employees must have a page where they can view their assigned schedule for the week. The schedule will show which days they will work and what hours they must work.

RAT: So that employees can know which days to work

DEP: FR19

#### 3.2.6.3.6 Functional requirement 3.6

**ID: FR21** 

TITLE: Employee clock-in/clock-out

DESC: Employees must have a page where they clock in or out for their work day. If an employee is not currently clocked in, they will be presented with an option to clock in. If an employee is clocked in, they must be presented with an option to clock out.

RAT: So that managers can know how long an employee worked

DEP: FR17

#### 3.2.7 Delivery/Pickup System

#### 3.2.7.1 Introduction/Purpose of feature

This feature shall allow customers to select where they want to obtain their groceries purchased online; either in-store pickup or delivery. This system shall assign an employee to prepare an online order received and notify the delivery employee or customer when an online order is ready.

#### 3.2.7.2 Stimulus/Response sequence

Delivery: If the user selects delivery during checkout, the system will check if the user has an address on file. If the user does not have an address, the system will prompt them to add one. After confirming the customer address and the customer completes a delivery order, an employee will be notified using the website about which groceries have to be collected from the store. After the employee completes the grocery collection, a driver will be notified of where to pickup the groceries and the location to deliver the groceries. Pickup: If the user selects pickup, the system will ask the customer what time they wish to pickup the groceries. After the order is completed, an employee will be assigned to collect the groceries and place the completed order in a designated spot. When the employee is notified that the customer is ready to pickup the order, the employee will bring the groceries to the customer.

#### 3.2.7.3 Associated functional requirements

#### 3.2.7.3.1 Delivery option – Delivery address validation

**ID: FR22** 

Created By	Thoai M.	Date Created	03/23/2020
Primary Actor	Guest/Member	Secondary Actor	Website
	user		
Description:	The website shall chee		-
	pickup for payment pro	ocessed online order a	and validate for deliv-
	ery address.		
Trigger:	User clicks on option "		
Preconditions	Payment was successfu		
Postconditions	Website obtains deliver	· ·	
	Online order completes		
Normal Flow	Delivery address va	lidation	
	ery option was see  2. If delivery address for delivery address tore pickup  3. User fills in delivery.  4. User clicks the "sees the delivery address information.  5. If delivery address dress information.  6. If user picks in-st FR25 response sees.	ery address or select in Submit" option so found, the website so to the complete online to the core pickup, the website store pickup store pickup, the website store pickup st	site shall prompt user we online order as in- n-store pickup option shall add delivery adne order
Alternative Flow	None		
Exceptions	Payment did not succe		
	User did not fill in deli	very address informat	tion
Priority	High		

# 3.2.7.3.2 Delivery option – Receive online order for delivery ${\rm ID\colon FR23}$

Created By	Thoai M.	Date Created	03/23/2020			
Primary Actor	Employee	Secondary Actor	Website			
Description:	After order is complete, the website shall notify employee with order details					
Trigger:	User clicks on option "	Place Order"				
	User clicks on option "					
Preconditions	Payment was successfu					
	Website obtains all req		ion			
	Online order successful	lly processed				
Postconditions	Delivery driver employ		er order			
Normal Flow	Receive Online Ord	er For Delivery				
1. The website shall notify an employee with the online or details 2. The website shall list the item(s) needed to be collected from the store 3. Employee completes item collection and package items delivery 4. Employee clicks "Order ready" 5. The website will notify delivery driver employee of read order with delivery address						
Alternative Flow	None					
Exceptions	No employee found					
Priority	High					

# 3.2.7.3.3 In-store pickup option – User selects pickup time ${\rm ID\colon FR24}$

Created By	Thoai M.	Date Created	03/23/2020
Primary Actor	Member/Guest	Secondary Actor	Website
Description:	The website shall chee	ck for user's choice of	f in-store pickup for
	payment processed onl	ine order and validate	for pickup time.
Trigger:	User clicks on option "	Place Order"	
Preconditions	Payment was successfu	ally processed	
	Website obtains all req	uired user's informatic	on
Postconditions	Website obtains user's	desired in-store picku	p time
	Online order completes		
Normal Flow	User select pickup t	ime	
	lected 2. The website shall order 3. User shall input dimit" 4. The website shall collected in store 5. The website shall	l check if the in-store l prompt for user des lesired time to pick up l use input time to p by employee l display a message to the order is ready for	ired time to pick up order and click "Sub- prioritize order to be to the user with esti-
Alternative Flow	None		
Exceptions	No employee found		
Priority	High		

# 3.2.7.3.4 In-store pickup option – Receive online order for in-store pickup ${\rm ID\colon FR25}$

Created By	Thoai M.	Date Created	03/23/2020				
Primary Actor	Employee	Secondary Actor	Website				
Description:	The website shall check for user's choice of in-store pickup for						
	payment processed onl	ine order and validate	for pickup time.				
Trigger:	User clicks on option "						
Preconditions	Payment was successfu	v					
	Website obtains all req	-	on				
	Online order successful	lly processed					
Postconditions	User receives order rea	· · · ·					
Normal Flow	details 2. The website shall the store 3. Employee completin-store pickup 4. Employee clicks	l notify an employee value of the item (s) needed etes item collection as "Order ready" notify user that their	with the online order d to be collected from nd package items for				
Alternative Flow	None						
Exceptions	No employee found						
Priority	High						

## 3.3 Performance requirements

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# 3.4 Design constraints

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# 3.5 Software quality attributes

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# 3.6 Other requirements

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# 4 Appendixes

#### 4.1 Appendix A: User Stories

- Feature: Grocery Storefront
  - As the store owner
  - $\circ\,$  I want customers to be able to quickly see what items are available for purchase
  - So that customers can quickly and easily purchase groceries.
- Feature: In-store pickup
  - As the store owner
  - I want customers to be able to pickup groceries in-store
  - So that I can sell more groceries

test

- Feature: In-store pickup
  - As a customer
  - I want to be able to pickup groceries in-store
  - So that I can conveniently get my groceries
- Feature: Add update item count
  - As an inventory manager
  - I want to be able to update the item quantity
  - So that I can track new items when the shelves are restocked
- Feature: View Schedules
  - $\circ\,$  As an employee
  - I want to be able to see my assigned schedule
  - So that I will know which days to go to work.
- Feature: Assign employee schedules

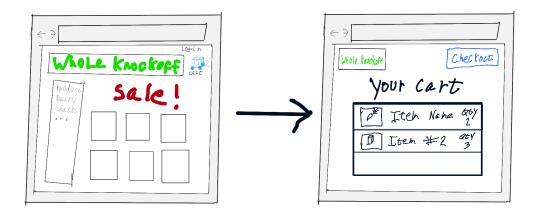
- As an employer
- o I want to be able to assign hours to work for each employee for the week
- So that the employees will know when they are supposed to work
- Feature: Track employee hours worked
  - As an employer
  - o I want to be able to see the hours worked for each employee
  - o So that I can know how much each employee needs to be paid
- Feature: Create a new account on online website
  - As a new consumer
  - $\circ$  I want to become a member
  - So that I can start shopping online with convenient and utilizing website/store's features and earn reward points
- Feature: Login into grocery's website
  - As a member
  - I want to order grocery online
  - o So that I can pick-up my online order in-store to save time
- Feature: Create an online shopping list
  - As a member
  - o I want to check for item's availability at the store
  - So that I can decide whether to go to the store
- Feature: Order grocery online to be delivered to resident
  - As a member or guest
  - I want to order grocery online and have it delivered to my home
  - o So that I don't need to leave my house and save time
- Feature: Gathering summaries of consumer orders
  - As an Online Orders Manager
  - o I want to see consumer orders in an easy to read organized format
  - So that I can assign online orders to store employees to complete the orders in a timely manner
- Feature: Options to add item into cart or shopping list

- As a member or guest
- I want to have the options to decide if the item will be in the cart or shopping list.
- So that I can make the purchase at a later time
- Feature: Display Customer Shopping list to delivery/pickup employees
  - As a delivery/pickup employee
  - I want to see the customer's shopping list assigned to me
  - So that I can start shopping for the customer's order
- Feature: User Confirmation System
  - As a pickup employee
  - I want to see the customer's details
  - So that I can confirm the customer's identity and handover the pickup order
- Feature: Show Delivery Details and route to delivery employee
  - As a delivery employee
  - I want to see the customer address, contact details and best route to the address
  - So that I can deliver the order to the customer
- Feature: Display Customer Rewards
  - As a registered customer
  - I want to see the reward points accrued over time
  - So that I can claim the rewards and make purchases
- Feature: Self Checkout Manager
  - As the checkout system
  - I want to scan grocery items
  - o So that I calculate prices, collect user payment and dispense a receipt
- Feature: See which items are in stock
  - As a customer
  - I want to see which items are in stock
  - So that I can know which items are available for me to buy
- Feature: Maintain accurate inventory

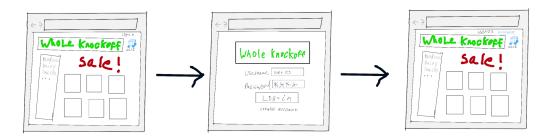
- As an inventory manager
- o I want the inventory system to keep track of the number of each item sold
- So that an accurate inventory is maintained
- Feature: See available items to purchase
  - As a customer
  - I want to see a listing of available items
  - o So that I can make decisions on which items to buy
- Feature: List available items by category
  - As a customer
  - o I want to be able to sort available items by category
  - So that I can quickly find the items that I want
- Feature: Virtual shopping cart
  - As a customer
  - $\circ\,$  I want to be able to add and remove items from a virtual shopping cart
  - So that I can keep track of the items that I wish to purchase for delivery or pickup
- Feature: Pay online
  - As the store owner
  - I want to accept payment on the website for online and in-store orders
  - So that I can make a profit

# 4.2 Appendix B: Diagrams

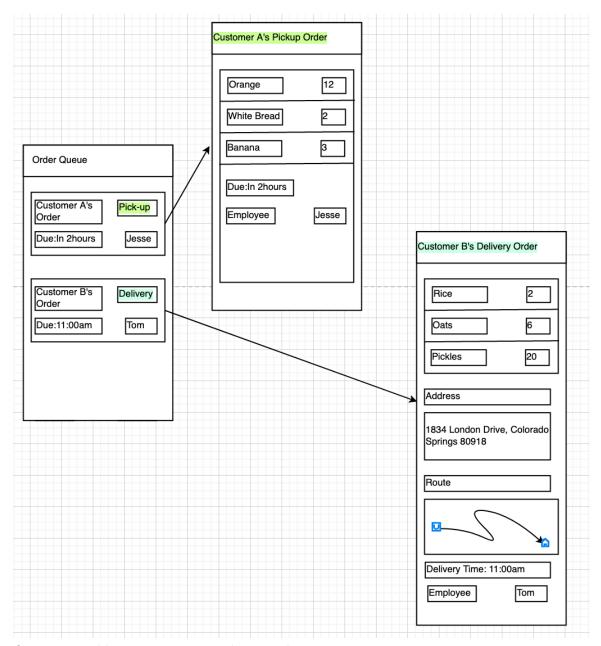
Shopping Cart:



User Log-in:



Employee Order Queue:



Options to add item into cart or shopping list:



# 4.3 Appendix C:

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