SOFTWARE REQUIREMENTS SPECIFICATION

for

Whole Knockoffs Grocery Store

April 13, 2020

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1 Introduction

1.1 Purpose

This document provides detailed requirements about the product, Whole Knockoffs webpage, that our team is creating for our customer, the owners of Whole Knockoffs. This document is intended for said customers and our software team as a reference on for the desired behaviors and requirements of the application.

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 customers. The WKGS website will allow customers to quickly see what is available to purchase at the grocery store using the website 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 website also update items quanities counts to the WKGS's separate inventory system.

1.3 Definitions, acronyms, and abbreviations

WKGS: Whole Knockoff Grocery Store.

DESC: Description - Explanation of the functional or non-functional requirement.

RAT: Requirements Authoring Tool - This line describes why the feature exists so that an automated tool can assist with classifying each requirement.

DEP: Dependencies - Other requirements that must work correctly for this requirement to work.

1.4 References

< Placeholder >

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 WKGS will provide customers and employees alike a web-based shopping and grocery store experience. Employees will be met with a 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.

Customers are will be met with an item selection interface from the web page. Coupling a simple 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. All items, whether purchased through the web protal or in-store, will be communicated to the WKGS's inventory system.

2.1 Product Perspective

The system is expected to interface with the store's existing inventory system as defined by the customer. The employee interface and customer facing portion of the web page will be separate but interface together on the same application. Although the web page 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

• Shopping list creation - The shopping list creation tools will allow customers to build/fill their shopping carts with all of the items desired to purchase and store

the shopping list for later purchase through the web page or to take the shopping cart/list with them as they browse the store in person.

- Online checkout The web page will offer the ability for 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 customer's 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

There are two main user classes, customers and employees. These two classes are broken down into paths for customers and roles for employees. Customer paths will involve member and guest checkout, will feature shopping cart/list functionality and will allow the customer to choose much of the shopping process from the site. Employee roles will guard the employees through their in-store duties and through their duties that come directly from the web page.

2.4 Constraints

There are several constraints to the system, none of these constraints focus around integration/s of other systems or regulatory policies so far as the development team knows at this time. Reliability requirements could be a major concern for the web page during periods of high traffic to the site and during times of low availability for certain products. Additional logging and/or auditing capabilities may be required for legitimizing transactions on the site, but these requirements have not yet been mentioned by the customer for either the employee/shopping portions of the site.

2.5 Assumptions and Dependencies

Several future dependencies could change the requirements for the WKGS purchasing/employee website. Integration with other shopping applications could alter the amount of information displayed by the website and how the website handles user paths during their shopping experience. There are few user dependencies for the system given the online/in-person shopping alternatives that WKGS will offer to their customers. User login and checkout will not necessary store user information and will not mandate account creation to checkout using the online system.

3 Specific requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

When a customer first visits the WKGS website, the user will initially see a page similar to Figure 3.1. This page will show the customer deals that the store wants to promote. When the customer clicks on an item box, an item details page similar to the one in Figure 3.2 should be shown. From this page, the user can view details about the item, view images of the item, and add the desired quantity to the shopping cart.

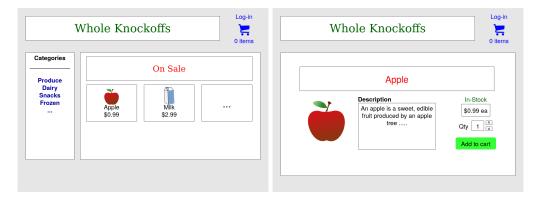


Figure 3.1: Homepage

Figure 3.2: Item Page

When the customer clicks on the cart icon, the customer can then view a list, the quantity, and the total price for the items that the customer selected. Using an interface similar to Figure 3.3, the customer can change the quantity and review their order. If the customer is not logged in to the system, they will be prompted to login to the page shown in Figure 3.4.

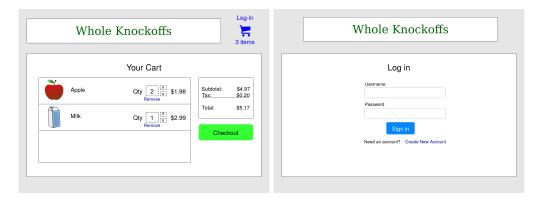


Figure 3.3: Customer Cart

Figure 3.4: Login Page

When the customer is logged in, the customer will then be presented with the payment screen. If the customer does not have any stored page information or the customer is a guest, they will be presented with a customer interface similar to Figure 3.5. After the customer's payment method is approved, The customer will be able to move to select how they would like to obtain their groceries. If the customer wishes to have their groceries delivered, they will be presented with an interface similar to Figure 3.6.



Figure 3.5: Payment Info

Figure 3.6: Delivery Selection Page

If the customer selects pickup to obtain their groceries, they will see an interface similar to Figure 3.7. After the customer has finished entering the required information, The customer will be presented with an order summary that shows them a confirmation of their order. This interface is shown in Figure 3.8.



Figure 3.7: Pickup Selection Page

Figure 3.8: Order Completion Page

3.1.2 Hardware Interfaces

Because the customer is responsible for the hardware and the inventory system, this application will not directly interface with hardware components.

3.1.3 Software Interfaces

The website must communicate with the inventory system for tracking and maintaining accurate inventory counts. Using the existing customer's inventory API, the web site will communicate with the inventory system to obtain item quantities and item prices. The web site will also deduct item quantities once purchases are complete.

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 Shopping list to complete their order. Depending on type of customers, the feature should preload required customer's information for the checkout process including: home address for delivery, billing address, and payment method. Furthermore, the customers can specify payment and delivery options on the checkout page.

3.2.1.2 Associated functional requirements

3.2.1.2.1 Online checkout functional requirement 1

ID: FR1

TITLE: Allow everyone to checkout online

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

id and Name: F.	iti Allow everyon	e to checkout omin	Е
Created By	Thoai Mai	Date Created	03/15/2020
Primary Actor	Guest customer	Secondary Actor	Website
Description:	The checkout feature s	should let guest custo	mer complete online
	order with the required	l information, includin	g payment and home
	delivery/in-store picku	p options	
Trigger:	Guest customer clicks	on option "checkout"	
Preconditions	None		
Postconditions	Guest customer succes	sfully complete checke	out for online orders,
	Payment received		
Normal Flow	Allow everyone to c	${ m checkout\ online-G}$	uest Customers
	 Website checks for count login? Directly Directly Directly Street and the state of the street and the street and	s accurate pricing with guest customer the formation, billing add e pickup select "Place Order" ord rd party checkout sys	Note: prompt for ac- th? n additional taxes for collowing information: tress, option for home ption tem to validate pay-
Alternative Flow	None	aafuller validata	
Exceptions	Payment did not succe	·	aformation
Duionitas	Guest customer did no	t nii in the required ii	normation
Priority	High		

Created By	Thoai Mai	Date Created	03/15/2020				
Primary Actor	Member Customer	Secondary Actor	Website				
Description:	The checkout feature should let member customer complete online order with the required information, including payment and home delivery/in-store pickup options						
Trigger:	Member customer click	s on option "checkout	5"				
Preconditions	Logged in as a member	r					
Postconditions	Member customer suc		eckout for online or-				
	ders, Payment received						
Normal Flow	Allow everyone to c	${f heckout\ online-M}$	lember Customer				
Alt	 Website checks for the stablish of the stablish o	member customer member information: accurate pricing with member customer the formation, billing address pickup Note: should customers? select "Place Order" ord party checkout sys	name and address a additional taxes for the following informatics, option for home website keep payment aption tem to validate pay-				
Alternative Flow	None	C 11 1: 1 4					
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 customers to create and edit settings for grocery store accounts. New customer 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 customer (member) a convenient way to edit their password, change delivery addresses, manage stored payment information, and change other stored personal information. From the customer management profile, customers will also be able to see past purchases and orders.

3.2.2.2 Associated functional requirements

3.2.2.2.1 Account Management System functional requirement 1

ID: FR2

TITLE: Create a new customer account

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

provide username, password and e-mail address. $\,$

RAT: In order for a customer to register an account

DEP: None

ID and Name: FR2 Create a new member account

Created By	Emmanuel .W	Date Created	03/13/20			
Primary Actor	Customer	Secondary Actor	Website			
Description:	A customer should be	able to register throu	igh the website. The			
	customer must provide	e a name, username,	password and e-mail			
	address.					
Trigger:	Customer clicks on "R	egister" option				
Preconditions	None					
Postconditions	Account is created, Cu	stomer is Logged in				
Normal Flow	Create a new Member account					
	word and e-mail 2. Website confirms ber details	it is a unique entry ar customer of successfu	nd save the new mem-			
Alternative Flow	None					
Exceptions	Email Address already	exists in the system				
Priority	High					

3.2.2.2.2 Account Management System functional requirement 2

ID: FR3

TITLE: Create a new Staff account

DESC: An administrator should assign staff roles and permissions and an internal com-

pany email address

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

DEP: None

3.2.2.2.3 Account Management System functional requirement 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

This section details what features of the how the website shall communicate with the inventory system. This shall includes when specific features of the inventory system will be queried and accessed.

3.2.3.2 Stimulus/Response sequence

Web site: request quantity for item number

Inventory: return item number and quantity in stock

Website: request price for item number Inventory: return item number and price

Web site: submit item number and quantity purchased Inventory: decrement item quantity for specified items

3.2.3.3 Associated functional requirements

3.2.3.3.1 Inventory functional requirement 1

ID: FR5

TITLE: Inventory Quantity Query

DESC: The system shall request item quantities from the inventory API. The inventory system shall respond with the specified item number along with the quantity of that item available for purchase. The inventory system returns the item number to verify the request.

RAT: In order for the customer to know which items are available

DEP: None

3.2.3.3.2 Inventory functional requirement 2

ID: FR6

TITLE: Inventory Price Query

DESC: The system shall request item price from the inventory API. The inventory API

shall return the item number and the item price.

RAT: In order for the customer to know which items are available

DEP: None

3.2.3.3.3 Inventory functional requirement 3

ID: FR7

TITLE: Decrease Item Count

DESC: The system shall send a request to the inventory API to decrement an item count when the customer completes an order. The request shall contain the item number and the quantity that the customer has purchased. The inventory API shall then decrement the count for the specified item.

RAT: In order to maintain accurate inventory information

DEP: None

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 Storefront System functional requirement 1

ID: FR8

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 Storefront System functional requirement 2

ID: FR9

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: FR9 Display items in inventory

id and Name: r	ng Display items	III III ventor y				
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,	username, password a	nd e-mail address.			
Trigger:	Customer selects categ	ory to filter by				
Preconditions	Items have category sp	pecified in the inventor	У			
Postconditions	The storefront displays only items that have the listed category					
Normal Flow	the website	ects a store category for the list of disp				
Alternative Flow	None					
Exceptions	No items with the sele	cted category exist				
Priority	High					

3.2.4.3.3 Storefront System functional requirement 3

ID: FR10

TITLE: Search for available store 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 Storefront System functional requirement 4

ID: FR11

TITLE: Display store 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: FR9

3.2.4.3.5 Storefront System functional requirement 5

ID: FR12

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 cart/list

3.2.5.1 Introduction/Purpose of feature

The shopping cart/list feature allows the user to manage their selected store item(s). The feature includes information on item's 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 cart/list.

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

3.2.6 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, prepare 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 Associated functional requirements

3.2.6.2.1 Employee functional requirement 1

ID: FR13

TITLE: Employee login

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

RAT: So that the employees can view their schedules

DEP: None

3.2.6.2.2 Employee functional requirement 2

ID: FR14

TITLE: Add employee

DESC: Managers shall be able to add employee from the company.

RAT: So that the employee know their current working status within the company

DEP: None

3.2.6.2.3 Employee functional requirement 3

ID: FR15

TITLE: Remove employee

DESC: Managers shall be able to remove employee from the company.

RAT: So that the employee know their current working status within the company

DEP: None

3.2.6.2.4 Employee functional requirement 4

ID: FR16

TITLE: Employee role

DESC: Employees shall have a role such as manager, owner, cashier, etc... The employee

role will dictate what privileges and features the employee have access.

RAT: So that managers can manage the company

DEP: FR14

3.2.6.2.5 Employee functional requirement 5

ID: FR17

TITLE: Manager assign work days

DESC: Managers shall be able to schedule 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: FR16

ID and Name: FR17 Manager assigns work days

Created By	Matthew M.	Date Created	03/123/2020
Primary Actor	Manager(user)	Secondary Actor	Website
Description:	Managers shall be able	to schedule work day	rs to employees. The
	manager must be able	to set which hours for e	every day of the week
	for each employee.		
Trigger:	Manager clicks on an e		rs in the work sched-
	uler portion of the web	osite	
Preconditions	The employee exists ar	nd is able to be assign	ed work hours
Postconditions	Employee has hours a	ssigned for the next v	vork week stored for
	their account		
Normal Flow	Manager assigns wo	ork hours	
	 Manager shall see The website shall of that week The manager shall see The website shall profile 	lect a user from a droplect a week from a droplect a week view all select a day from the last select the start and a dropdown box all click "Save" I store the configuration.	for each of the days he week view stop time of the em-
Alternative Flow	None		
Exceptions	Employee is already we	orking in the selected	timeframe
Priority	Low		

3.2.6.2.6 Employee functional requirement 6

ID: FR18

TITLE: Employee view assigned work shedule

DESC: Employees shall 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: FR17

3.2.6.2.7 Employee functional requirement 7

ID: FR19

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: FR??

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 once they have completed their purchase online, both in-store pickup and home delivery options will be available. The system shall assign an employee to prepare an online order once received by the system and will notify the delivery employee or customer when an online order is ready.

3.2.7.2 Associated functional requirements

3.2.7.2.1 Delivery/Pickup System functional requirement 1

ID and Name: FR20 Delivery address validation

id and Name: Fi	λ 20 Denvery addi	less validation						
Created By	Thoai Mai	Date Created	03/23/2020					
Primary Actor	Customer	Secondary Actor	Website					
Description:		The website shall check for customer's choice of delivery or in-						
	store pickup for paym	ent processed online of	order and validate for					
	delivery address.							
Trigger:	Customer clicks on op-							
Preconditions	Payment was successfu	ılly received						
Postconditions	Website obtains delive	ry address						
	Online order complete	S						
Normal Flow	Delivery address va	lidation						
	1. System shall check for delivery address information if deliv-							
	ery option was selected by customer							
	2. If delivery address is missing, the website shall prompt cus-							
		•	to have online order					
	as in-store pickup							
	3. Customer fills in delivery address or select in-store pickup option							
	4. Customer clicks the "Submit" option							
	5. If delivery address found, the website shall add delivery ad-							
	dress information to the complete online order							
	6. If customer picks in-store pickup, the website shall direct							
	customer to FR2	3 response sequence.						
Alternative Flow	None							
Exceptions	Payment did not succe	essfully validate						
	Customer did not fill i	n delivery address inf	formation					
Priority	High							

3.2.7.2.2 Delivery/Pickup System functional requirement 2

ID and Name: FR21 Receive online order for delivery

Created By	Thoai Mai	Date Created	03/23/2020				
Primary Actor	Employee	Secondary Actor	Website				
Description:	After order is complete	e, the website shall	notify employee with				
	order details						
Trigger:	User clicks on option "	Place Order"					
	Customer clicks on opt	tion "Submit" in FR2	0				
Preconditions	Payment was successfu	•					
	Website obtains all req	•	rmation				
	Online order successful	lly processed					
Postconditions	Delivery driver employee is notified to deliver order						
Normal Flow	Receive Online Ord	er For Delivery					
	details 2. The website shall the store 3. Employee comple delivery 4. Employee clicks	list the item(s) neede etes item collection a "Order ready" notify delivery driver	with the online order d to be collected from nd package items for r employee of readied				
Alternative Flow	None						
Exceptions	No employee found						
Priority	High						

3.2.7.2.3 Delivery/Pickup System functional requirement 3

Created By	Thoai Mai	Date Created	03/23/2020		
Primary Actor	Customer	Secondary Actor	Website		
Description:	The website shall chec	k for customer's choi	ce of in-store pickup		
	for payment processed	online order and valid	date for pickup time.		
Trigger:	Customer clicks on opt	tion "Place Order"			
Preconditions	Payment was successfu	illy processed			
	Website obtains all rec	uired customer's info	rmation		
Postconditions	Website obtains custor	mer's desired in-store	pickup time		
	Online order completes	5			
Normal Flow	User select pickup t	ime			
	lected 2. The website shall up order 3. Customer shall ir "Submit" 4. The website shall collected in store 5. The website shall estimated time websites shall estimated	l check if the in-store of prompt for customer aput desired time to put use input time to put by employee all display a message to then the order is read;	r desired time to pick ick up order and click prioritize order to be to the customer with		
Alternative Flow	None				
Exceptions	No employee found				
Priority High					

3.2.7.2.4 Delivery/Pickup System functional requirement 4

ID and Name: FR23 Receive online order for in-store pickup

Created By	Thoai Mai	Date Created	03/23/2020
Primary Actor	Employee	Secondary Actor	Website
Description:	The website shall chec	k for customer's choi	ce of in-store pickup
	for payment processed	online order and valid	date for pickup time.
Trigger:	Customer clicks on opt	tion "Submit" in FR2	2
Preconditions	Payment was successfu	ally received	
	Website obtains all req	quired customer's infor	rmation
	Online order successful	lly processed	
Postconditions	Customer receives orde	er ready to be pickup	in store notification
Normal Flow	details 2. The website shall the store 3. Employee completin-store pickup 4. Employee clicks	l notify an employee value list the item(s) needed etes item collection as "Order ready" l notify customer that	with the online order d to be collected from nd package items for
Alternative Flow	None		
Exceptions	No employee found		
Priority	High		

3.3 Non-functional requirements

3.3.1 Login Security

System shall transmit user credentials in an encrypted form. This will prevent attackers from easily viewing the customer's credentials as they are transmitted.

3.3.2 Mobile Useability

The website shall be mobile supported.

3.3.3 Website Useability

The website's storefront shall use a legible font with a font size 12 pt or larger to promote consumer's usabilities.

3.3.4 Payment Security

The website shall protect consumer's personal data.

3.4 Performance Requirements

3.4.1 Inventory query response time

When a query is made to the inventory database, the system should not take more than 500 milliseconds to respond. This is to ensure that requests are handled quickly and the system does not become backlogged with requests.

3.4.2 Storepage Load Time

The website storefront shall load swiftly; the website should not take longer than 5 seconds to load. The average loading speed for each page should be 3 seconds with high speed internet connection.

3.5 Design constraints

3.5.1 Hardware Requirements

The system shall use a machine with 3GHz Quad CPU, 8GB RAM, 800MB database space, and 10GB disk space for minimum operation and will be subject to increase depending on performance test and storage needs.

3.5.2 API Integrations

APIs from different sub-systems have been used to develop the grocery store, these include APIs from inventory management system, payment gateway, location tracking systems and other smaller systems. Any updates to these systems that changes the API Integration will need refactoring to resolve any issue.

3.6 Software quality attributes

3.6.1 Reliability

While searching the system customers shall receive correct results on item searches concerning availability, price, and other item specific details. Delivery time and method will also be guaranteed through the website.

3.6.2 Availability

The system shall be accessible online at all times except in an instance where maintenance/upgrade is ongoing and a notification has been broadcast.

4 Appendixes

4.1 Appendix A: User Stories

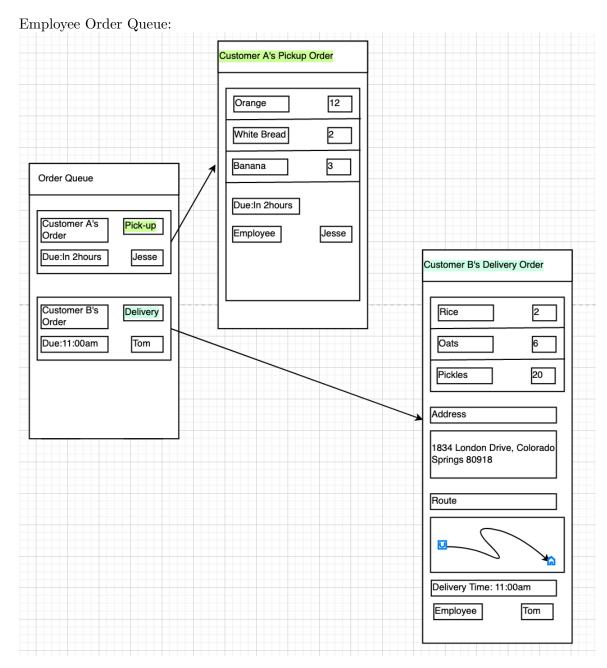
- Feature: Grocery Storefront
 - As the store owner
 - I want customers to be able to quickly see what items are available for purchase
 - $\circ\,$ So that customers can quickly and easily purchase groceries.
- Feature: In-store pickup
 - As the store owner
 - o I want customers to be able to pickup groceries in-store
 - $\circ\,$ So that I can sell more groceries
- 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
 - o So that I can track new items when the shelves are restocked
- Feature: View Schedules
 - As an employee
 - $\circ\,$ 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
 - 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
 - o 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
 - 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
 - o 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
 - 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

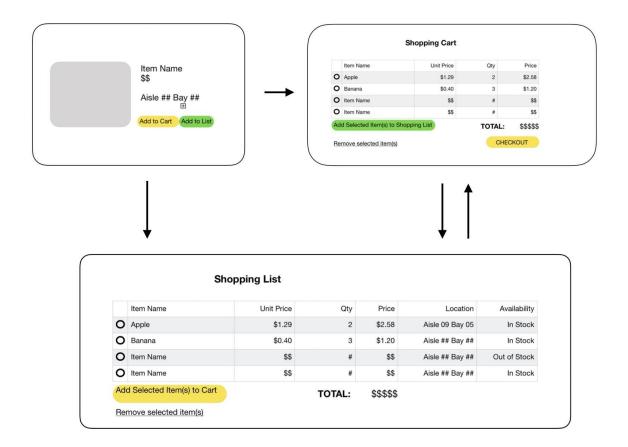
- I want to have the options to decide if the item will be in the cart or shopping list
- So that I can make the purchase at a later time
- Feature: Display Customer Shopping list to delivery/pickup employees
 - As a delivery/pickup employee
 - I want to see the customer's shopping list assigned to me
 - 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
 - o 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

- I want the inventory system to keep track of the number of each item sold
- o 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
 - So that I can make decisions on which items to buy
- Feature: List available items by category
 - As a customer
 - 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
 - o I want to be able to add and remove items from a virtual shopping cart
 - $\circ\,$ 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
 - o So that I can make a profit

4.2 Appendix B: Diagrams



Options to add item into cart or shopping list:



4.3 Appendix C:

< Placeholder >