Cairo University

Faculty of Computers and Artificial Intelligence

CS251

Intro. to Software Engineering

Toffee

Software Requirements Specifications

Version 1.0

Name	ID	Phone number
Salma Mamdoh Sabry (team leader)	20210162	01033704772
Roaa Talat Mohamed	20210138	01121295650
Jana Raafat Abd Elhammed	20221251	01099980516

Team members:

Smmdwh985@gmail.com

roaatalat211@gmail.com

Janaraafat002@gmail.com

March & 2023

CS251: Phase 1 – The Perfect Mix
Project: Toffee

Software Requirements Specifications

Contents

CS251: Phase 1 – The Perfect Mix
Project: Toffee

Software Requirements Specifications

Team

ID	Name	Email	Mobile
20210162	Salma Mamdoh Sabry	Smmdwh985@gamil.com	01033704772
20210138	Roaa Talat Mohamad	roaatalat211@gmail.com	01121295650
20221251	Jana raafat abd elhammed	Janaraafat002@gmail.com	01099980516

Document Purpose and Audience

Purpose

Purpose of this document is clarification of the toffee system and all the system requirements which was determined by client. And clarify the scope of this system and what the functionalities the system will support.

Audience

- Stakeholders (all who will deals with this system like Managers, system admins and customers).
- Project owner.
- Software development team.

Introduction

Software Purpose

The summarize of propose of Toffee is a system for selling candy online so the system will handle the customer's needs like shopping, payment, vouchers and so on and handle system admins needs like add new product or update price or cancel item add discount and other functionalities and also get statistics about products , the daily and monthly sales and so on.

Software Scope

The scope of this system is the operations the customers can do this operations includes registration, buying, payment, vouchers, loyalty points . the scope of the system also include modifications of products information like price, remove item , add item and so on, last main factor in our system is the shop owners and their needs like analyzing data of orders and get statistics of this data like daily sales and monthly sales and the most sold product and other features like this.

Software Requirements Specifications

Definitions, acronyms, and abbreviations

Phrase	Definition
Loyalty points	Points that the system gives to the customers when doing an order this points determined by system admin according to specific scheme and user can use this points to buy products later.
Smart welts	Smart welts is an online welts user can put money in this welts and use it to pay money for different online shopping systems example for this welts is Vodafone cash and Etisalat cash.
OTP	One-time password (OTP) systems provide a mechanism for logging on to a network or service using a unique password that can only be used once, and this technique used to verify phone number when user order orders or email when registration .
Voucher	A gift voucher is a card or piece of paper that you buy at a shop and give to someone, which entitles the person to exchange it for goods worth the same amount.
Reorder button	This button when the user clicked on then he copy previous order he ordered then this order will be by same information and same products .
Performance	Performance defines how fast a software system or a particular piece of it responds to certain users' actions.
scalability	This used to determine the highest workloads under which the system will still perform as expected example (Black Friday Test).
Modifiability	This describes how ease to modify in the system either fix issue in the system or adding new feature to it.
Reliability	This is the ability of the system to properly perform the required functions under predefined conditions for a certain period.
Usability	This focus on the user experience with system and how the user can interact whit system. the system become more efficient when users can use it easily.
Security	This will describe how the system will be secure and how to secure user important data from any attacks and how to avoid bots to do fake orders.
Portability	This describes how difficult will it be to move the software to a different platform. What hardware and operating system does the software run on. what conflict with other processes or applications will happens within these environments.
Compatibility	This is allows people who have different operating systems to use the same applications. For example, a compatible photo sharing application may offer the same features on an iOS device as it does on an Android device.
Functionality	This describes the functional requirements generally represent the main product features of the system.
Availability	This describes how likely the system is accessible to a user at a given point in time. Or the expected percentage of successful requests, you may also define it as a percentage of time the system is accessible for operation during some time.

Software Requirements Specifications

Requirements

Functional Requirements

Requirement ID	Requirement Statement
FR01	The system should have registration by gathering information about the client this information is: • Email. • Address. • Password that follows secure passwords guidelines (this guidelines determined by developer and it is not important to save old passwords). • Phone number. The regermination successfully completes only when use OTP to send a unique code to user through his email and then the ask user for this code.
FR02	The system should have Login screen that the user enters his email and passwords he used in registration. If the user forgets password he will click on forget password and then system will use OTP system and send temporary password on email then ask user to create new password.
FR03	User can see all product in the shop in different category and can see all the properties of the product like: • Description. • Category. • Image. • Brand. • Price. • Discount percentage. • Sold by units or by kilo.
FR04	Customer can search about specific item by enter the name or the brand of item and system will give him all items its name is like this name. • NOTE: if user searched about specific items and this item was out of stock system suggest him other products of same category orders by most popular.
FR05	User can have profile on the system and have shopping cart which contains the selected items the user pretends to buy.
FR06	User have limitation in order this limitation determined by system admin and there are different limitation for items which sealed by units and which sales by kilo. The minimum amount the user can buy is 1 unit or less than kilo but at

Software Requirements Specifications

	all cases customer will by the shipping fees whatever the quantity he ordered.
FR07	Customer can make orders by selecting the items he wants to buy and choose to add to cart option. Each item user can see if it is available to buy or is out of stock.
FR08	Customer can make orders and to do this: - he must log in with his account. - the default address will be the address which user enter in the registration process allow the customer to change the address. - Then the customer can see all the product he selected and the description of each product and the price of each one and can remove product and add product until the he doesn't confirm the order. - Customer can see the total price then the total price with shipping. - Customers choose the payment method there are some methods: - Pay total price cash on delivery. (In this case customer should verify his phone number as the delivery man can communicate with him to deliver order. Another important note in this case customer has limit if he will pay the total price cash on delivery this limit will be determined by system admins). - Pay total price or part of the total price by voucher. - Pay total price or part of total price by loyalty points. - Pay using smart welts(should make sure that the welts have at least money equal to the total price of order). - Customers see the when the order will deliver to him and confirm order. - IMPORTANT NOTE: you must clarify this to customer if he will pay by smart welts, he will ger greater points than paying cash on delivery the percentage or scheme of the points the system admins will determine it. - Another IMPORTANT NOTE: you must clarify that to the customer if he pays total price cash on delivery the shipping cost will be greater than the shipping cost if he used smart welts to and this increase will be determined by system admins.
FR09	Customer can cancel order this can be available in specific time almost 24 hours after confirmation of the order and here we have 2 scopes: If the customer will pay total price cash on delivery it in this case the order will canceled without any processes.

Software Requirements Specifications

	• If the customer paid the total price by smart welts system will converts the paid money into points the customer can use it later to buy anything from the app.
FR10	Customer can reorder order he did before as system saves the order history of each client so the client can go to his previous orders and choose one of it to reorder it with the same items and same address. • IMPORTANT NOTE: System mush check the availability of each item in order if it is in stock or out of stock and if one of this order are out stock should clarify it to the user by massage and delete it from the order and from the total price and suggest the most popular products pf same category of this item.
FR11	Customer can buy a voucher and gift someone with it , voucher equals money as user can use it to pay part or all his orders. System gives each voucher Unique code and can used only once .
FR12	System admin can do some functionalities like: • Add new category of products. • Add new item to specific category and add all its information like name , description, image , brand , price and discount percent. • Admin can see all the orders. • Admin can determine the loyalty point scheme. • Admin can determined fixed increase on shipping phase when user pay cash on delivery. • Admin can determine the max amount of products the user can by in one order either this products sealed by units or by kilos. • Admins determine the discount percentage of each items. • Admin can suspend a user. • Admins determine the max total price of orders which will be paid cash on delivery. • Admins can do statistics about products to know which most popular products and sales of each product in a period of item. • Admins can do statistics to know how the store is doing and what is the daily and monthly sales of the store. • Admin can remove item or category from the items list.
FR13	System should have a contact form that enables customers to send their complains if there are any pommels in their orders and to send suggestions to improve the services which we provide in this system.
FR14	System gives default email to one system admin and if the shop owner want to increase the number of admins they will create account to admin with admin id and password and admin can change this password when he use this account.

Software Requirements Specifications

Non Functional Requirements

Measure	Details
Performance and functionality	System Performance has some scopes: • Registration screen and login screen should take less than 5 second to load. • When user search about specific item search results should appear in less than 5 second. • Adding item to cart should happen in less than 2 seconds. • Preparing the order page with selected items and calculate total cost this should be in less than 5 seconds. • Confirmation order and verifying the phone number should take less than 2 seconds. • Cancelation of order should take less than 5 seconds. • Retrieve data when reordering operation and checking availability of each item should take less than 5 seconds. • Get statistics from database should take less than 3 seconds. • Update any product information by system admins or Appling new loyalty points scheme or new discount all of this should takes less than 10 seconds.
scalability	System should be able to deal with the load of customers in times of large discounts like Black Friday, so system should be able to support up to 1000 customers without affecting the performance.
Modifiability	This system should have 95% chance of maintainability in 24 hours, which means that any issues happens in this system shout be fixed in less than 24 hours by percentage 95%.
Usability	This system must be easy to use by customers as: • Customer should be able to do registration in at most 3 minutes. • Clarify to customer in simple way the guidance rules of the strong password to apply it . • Write the description of the products and name of products and price pf products in clear and simple way . • User should use the app easily can order and select items and cancel orders in easy way without any difficulties. • If any problem in order or in payment or user exceed the maximum amount in one order or the smart welts doesn't have enough money for order system all of this problems you should appear a clear message to the customer which clarify the reason of the problem and how to solve it. This system must be easy to used by Admin: • Admin should use with system easily example if he want to add new item he should apply the information of item in less than 1 minute. • The statistics that admin can get from system should be clear , readable and simple.

Software Requirements Specifications

Security	- This system should secure the information of the customers and secure it from attacking. - This system should be secured from bots to avoid that bot does fake orders. - This database of the system should be secured from any attacking, or anyone modify in this data. - This system will use OTP to verify user phone number and emails. - System should save the passwords of the customers and admins Encrypted.
Portability and Compatibility	User can use the system from mobile either android or iPhone , so system should support android in different versions and iOS in different versions. User also can use the system website which can runs on different search engines like google , Microsoft Edge. AI tools can recommend this system to user like chat gpt.
Reliability and availability	the system should work without any failure for 98% of the day , taking into consideration the system maintainability and reliability , so it will be available for user about 98 % of the day.

System Models

Actors in Use case Model are :

- **Customers:** who can interact with the system , order products and do too much features which clarified in the use case.
- **Admins :** who have a dedicated app to get statistics and apply modifications on the main system.
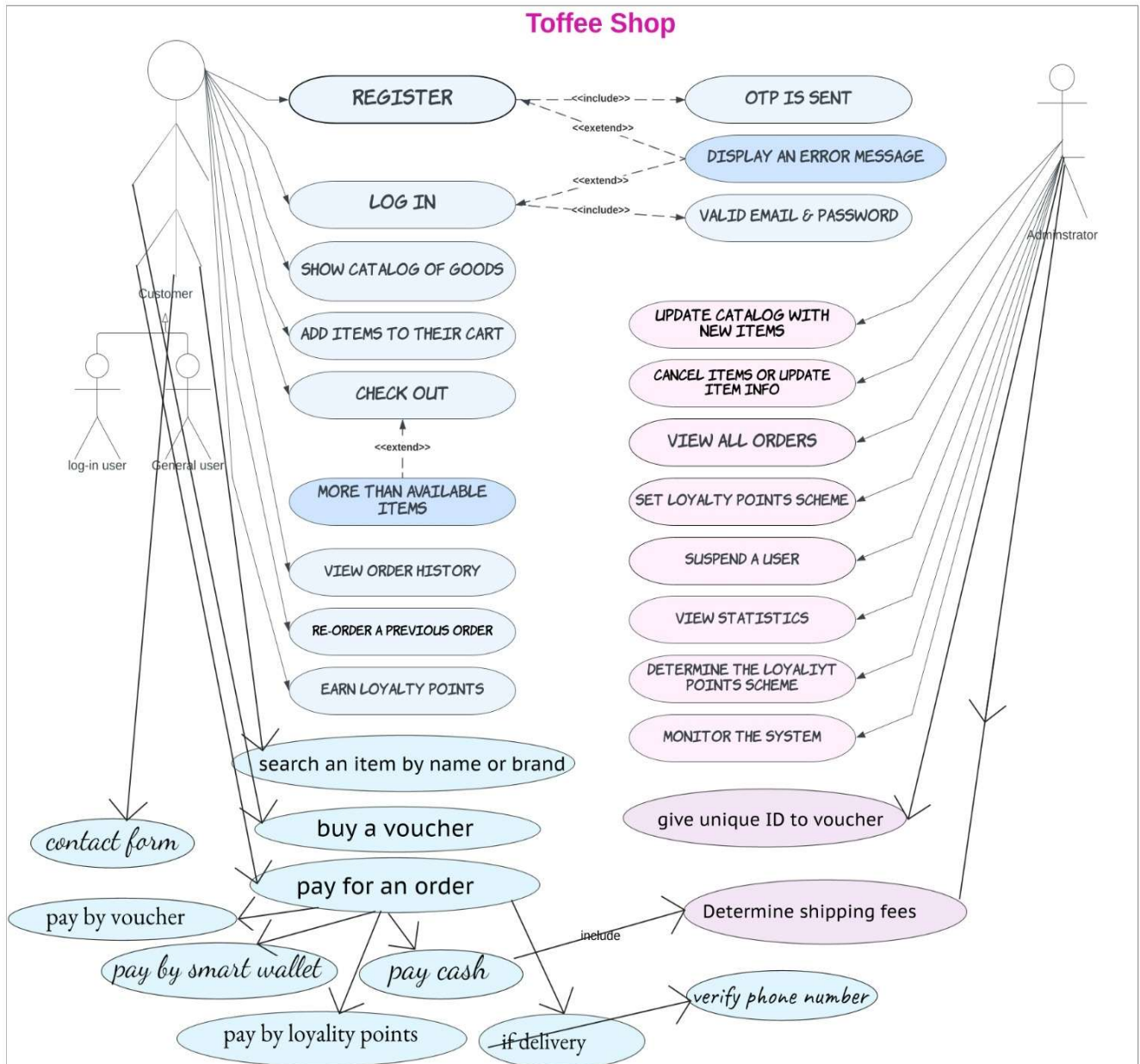
Software Requirements Specifications

Use Case Model

Software Requirements Specifications

Enriched User Stories

- **User Story #1**

User Story ID	US #1
User Story Name	Customers sign up to Toffee store
Actors	Customer
Description	**As** a customer **I'd like** to be able to sign up to the application. **So** that I can sign in and access its services
Per condition	
Post condition	
Acceptance Criteria	**Given** I'm a customer and I'm on the sign-up. **When** I fill in the sign-up information fields with my credentials and I click sign up **Then** the system signs me up

- **Scenarios**

Normal Scenario

Actor Action	System Response
1-User clicks on sign up	
	2- displays sign up page 3- display boxes to input sign up information
4- User fills the required information in the boxes	
	5-System verifies the user information
	6- System saves user information in the database

Exceptional Scenario

Actor Action	System Response
1-User clicks on sign up	
	2- displays sign up page 3- display boxes to input sign up information

Software Requirements Specifications

4- User fills the required information in the boxes	
	5-System verifies the user information
	6-System finds input information invalid
	7-System displays "Please enter valid information." message

- **Screen Design**

- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Name field	Text < 100 Characters	Structured Text.
Email field	Text < 100 Characters	Structured Text
Phone number field	integer = 11 digits	Integer > 0 and confirm via text message
Location field	Graphic	Google Maps Location

Software Requirements Specifications

Element Label	Type/Length	Data Validation / Business Rule
Password field	Alphanumeric < 100 Characters	Password confirmation and must include an uppercase letter, numbers and/or special characters
Confirm Password field	Alphanumeric < 100 Characters	Must be the same as password field

_____

- **User Story #2**

User Story ID	US #2
User Story Name	Customers log in to Toffee store
Actors	Customer
Description	**As** a customer **I'd like** to be able to log in to the application. **So** that I can access its services
Per condition	
Post condition	
Acceptance Criteria	**Given** 'm a logged-out system user and I'm on the Log-In page **When** I fill in the "Username" and "Password" fields with my authentication credentials and I click the Log-In button **Then** the system signs me in

- **Scenarios**

Normal Scenario

Actor Action	System Response
1-User clicks on log in	
	2- displays log in page 3 - System display boxes to input username and password
4- User fills the required information in the boxes	
	5-System verifies the user information

Software Requirements Specifications

	6- - System accesses user to app functionalities

Exceptional Scenario

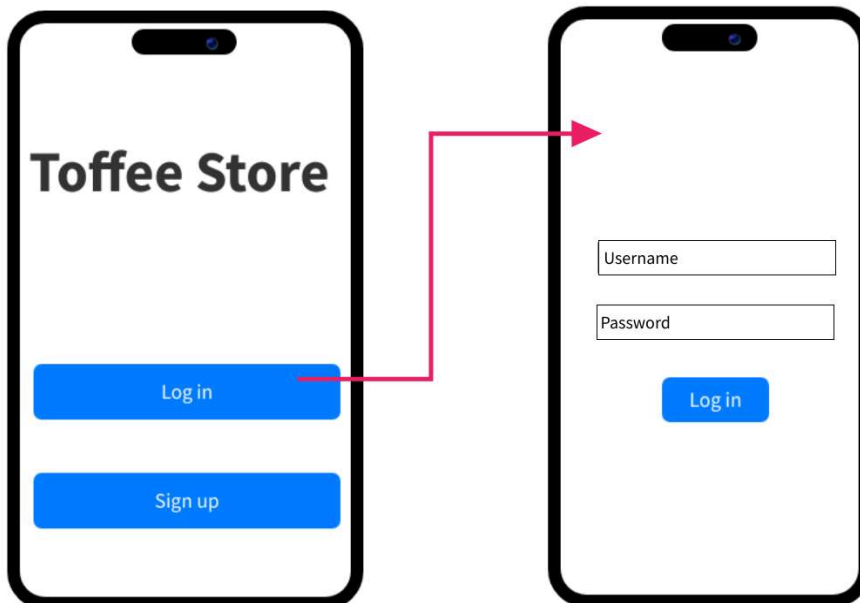| Actor Action	System Response
1-User clicks on log in	
	2- displays log in page 3 - System display boxes to input username and password
4- User fills the required information in the boxes	
	5-System verifies the user information
	6- System finds input information invalid
	7-System displays "Please enter valid username/password." message

- **Screen Design:**

Software Requirements Specifications

- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Username field	Text < 100 Characters	Structured Text.
Password field	Text < 100 Characters	Structured Text.

- **User Story #3**

User Story ID	US #3
User Story Name	General view of Toffee products & search about items &Add item to cart.
Actors	Customer
Description	**As** a customer **I like** to be able to see all the products the toffee shop produce **So** i want to see all the products in the shop and can search by name or brand about specific product
Per condition	Sign Up & login
Post condition	
Acceptance Criteria	**Given** user log in to the system. **When** user view all the products and search about specific product by name or by brand . **Then** system must get this products with all its information .

- **Scenarios**

Normal Scenario

Actor Action	System Response
1-User view all products . 2-choose category.	

Software Requirements Specifications

	3-get all the products from this category.
4-User choose Search option. 5-User enter the name of the item or the brand or the item. 6-click Search	
	7-get all the products which have this name or this brand .
8-User Add this product to cart.	

Exceptional Scenario #1

Actor Action	System Response
1-User choose search option. 2-user enter the name of item . 3-Click search.	
	4-system can not find products with this name Then system will get all the items which are in the same category of this item and ordered it by popularity.

Exceptional Scenario #2

Actor Action	System Response
1-User choose search option. 2-user enter the name of brand. 3-Click search.	
	4-system can not found items its brand like the brand which user enter Then system will get the category of this item and appear all items from the same category but in different brands. 5-system will appear message that tells the user that is no result for this search operation if the brand was unique and produce unique items.

Exceptional Scenario #3

Actor Action	System Response

Software Requirements Specifications

1-User choose item. 2-user clicked add to cart.	
	4-this item is sold out system appear message to user tells him that this item is out of stock.

- **Screen Design**
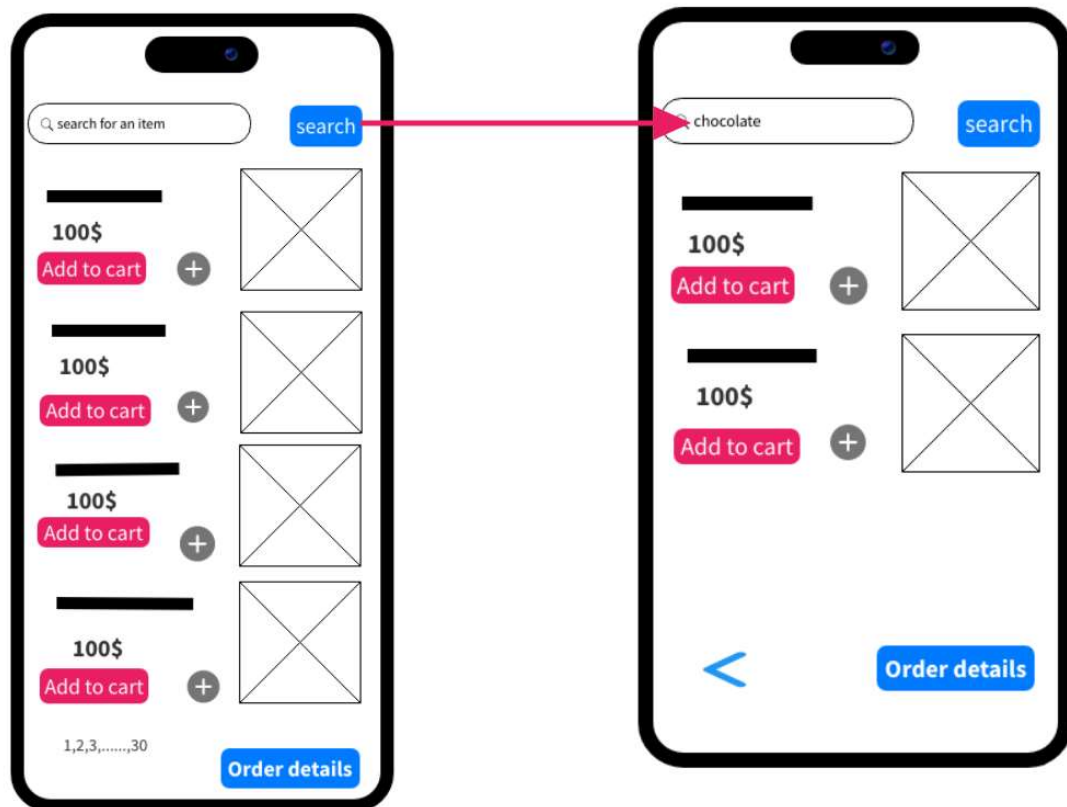
- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Search By Name	Text <100 character	Structured Text.
Search By Brand	Text <100 character	Structured Text.

Software Requirements Specifications

- **User Story #4**

User Story ID	US #4
User Story Name	User profile & previous orders & reorder button
Actors	Customers
Description	**As** a customer **I like** to be able to check my profile , show how many loyalty points I have , see my old orders and can reorder one of them. **So** system should save my information and update my orders and loyalty points.
Per condition	Login .
Post condition	
Acceptance Criteria	**Given** I login into app and go to my profile **When** I see my old orders and clicked the reorder button **Then** the system must reorder this order.

Normal Scenario

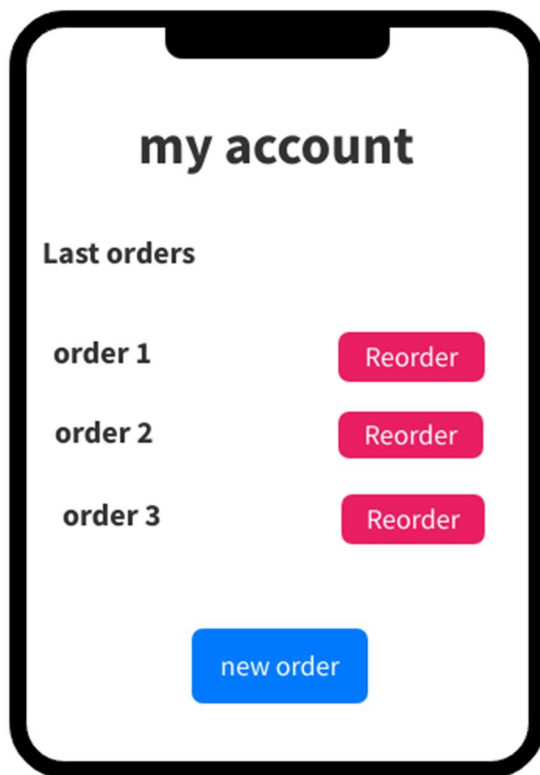| Actor Action	System Response
1-User login to system. 2- User go to Profile icon. 3- User check his old orders. 4-User click Reorder button.	
	5-System generate new order with the same products and same quantity of this previous order , allow user to change any thing before confirm the order.
6-And so on.	

Exceptional Scenario

Actor Action	System Response
1-User login to system. 2- User go to Profile icon.	

Software Requirements Specifications

3- User check his old orders. 4-User click Reorder button.	
	5-system found that one of items that was in this od item is out of stock now so system will delete this item from the new order and delete its price from the total price 6-system display a message to the user tells him that this item is out of stock.

- **Screen Design**

- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Change address of order	Text <100 character	Structured Text.

Software Requirements Specifications

Element Label	Type/Length	Data Validation / Business Rule
Chang quantity of items that sealed by unit	Integer <50	Integer >0
Change quantity of item for product sealed by kilo	Double <10.00	Double >0 in kilos

_____

- **User Story #5**

User Story ID	US #5
User Story Name	Make an order
Actors	Customer
Description	**As** a customer **I like** to be able to make orders and define all details about this order. **So** I want to be able to do this.
Per condition	Login.
Post condition	
Acceptance Criteria	**Given** I'm a customer and I login into the app **When I** choose some products and want to order them and choose the payment method , address and so on . **Then** the system confirm the order and deliver it to me.

- **Scenarios**

Normal Scenario #1

Actor Action	System Response
1-User choose some products. 2-user choose to make order.	
	3-system get the info about the order and which are the products that the customer choose and the default info about the customer like phone number , address , and so on . Note : User can change the address of the order or phone number.

Software Requirements Specifications

Actor Action	System Response
4-User choose the payment method from (cash on delivery , voucher , loyalty points , smart wallets). 5-User choose to pay with **smart wallets**.	
	6-system checked that the smart wallets have enough money for the order. 7-system calculate the shipping cost and add it to the total price of the order. 8- system show confirm order button .
9-User click confirm.	
	10-system display all order info and the deliver date with message successful order. 11-system add 10 loyalty points to this customer.
12-And so on.	

Normal Scenario #2

Actor Action	System Response
1-User choose some products. 2-user choose to make order.	
	3-system get the info about the order and which are the products that the customer choose and the default info about the customer like phone number , address , and so on . Note : User can change the address of the order or phone number.
4-User choose the payment method from (cash on delivery , voucher , loyalty points , smart wallets). 5-User choose to pay with **cash on delivery .**	
	6-system verify the phone number of the customer by using OTP. 7- system checked that the order not more than 2000 .

Software Requirements Specifications

	8-system add shipping cost to the total price of the order plus the fixed cost as paying the order cash on delivery. 9-system appear confirm button.
10-User click confirm.	
	11-system display all order info and the deliver date with message successful order. 12-system add 5 loyalty points to this user.
13-And so on.	

Normal Scenario #3

Actor Action	System Response
1-User choose some products. 2-user choose to make order.	
	3-system get the info about the order and which are the products that the customer choose and the default info about the customer like phone number , address , and so on . Note : User can change the address of the order or phone number.
4-User choose the payment method from (cash on delivery , voucher , loyalty points , smart wallets). 5-User choose to pay with **voucher .** 6-user enter the unique code of the voucher.	
	7- system checked that this voucher is valid. 8-system checked that the voucher cover the pay of this order +shipping cost . 9-system appear confirm button.
10-User click confirm.	
	11-system display all order info and the deliver date with message successful order. 12- system add 10 loyalty points to this user.
13-And so on.	

Software Requirements Specifications

Normal Scenario #4

Actor Action	System Response
1-User choose some products. 2-user choose to make order.	
	3-system get the info about the order and which are the products that the customer choose and the default info about the customer like phone number , address , and so on . Note : User can change the address of the order or phone number.
4-User choose the payment method from (cash on delivery , voucher , loyalty points , smart wallets). 5-User choose to pay with **loyalty points** .	
	6-system checked that the loyalty point cover the total price of the order and shipping cost. 7-system appear confirm button.
8-User click confirm.	
	9-system display all order info and the deliver date with message successful order. 10-system add 10 points to the user.
11-And so on.	

Exceptional Scenario #1

Actor Action	System Response
1-User choose some products. 2-user choose to make order.	
	3-system get the info about the order and which are the products that the customer choose and the default info about the customer like phone number , address , and so on . Note : User can change the address of the

Software Requirements Specifications

	order or phone number.
4-User choose the payment method from (cash on delivery , voucher , loyalty points , smart wallets). 5-User choose to pay with **smart wallets.**	
	6-system checked that the smart wallets **didn't have enough money for the order.** 7-system display message to the user tells him that this smart wallet did not have enough for this order. 8-system display the other payment methods. Note: user can use part of the order using smart wallets and part by any other method.
9-User choose one payment method from this (voucher , cash on delivery , loyalty points). 10-User choose to pay by loyalty points	
	11-system check that the loyalty points are enough for this order. 12-system delete this points from the total points of the user+ shipping cost. 9-system display all order info and the deliver date with message successful order. 10-system add 10 loyalty points to this user.
10-And so on.	

Exceptional Scenario #2

Actor Action	System Response
1-User choose some products. 2-user choose to make order.	
	3-system get the info about the order and which are the products that the customer choose and the default info about the customer like phone number , address , and so on . Note : User can change the address of the

Software Requirements Specifications

Actor Action	System Response
	order or phone number.
4-User choose the payment method from (cash on delivery , voucher , loyalty points , smart wallets). 5-User choose to pay with **cash on delivery**.	
	6-system **cannot verify the phone number or the order cost was more than 2000 EP**. 7-system display message to the user tells him that we either we can not verify the phone number or he can not pay cash on delivery as this over limits of cash of delivery. 8-system display the other payment methods.
9-User choose one payment method from this (voucher , cash on delivery , loyalty points). 10-User choose to pay by loyalty points	
	11-system check that the loyalty points are enough for this order. 12-system delete this points from the total points of the user + shipping cost . 9-system display all order info and the deliver date with message successful order.
10-And so on.	

Exceptional Scenario #3

Actor Action	System Response
1-User choose some products. 2-user choose to make order.	
	3-system get the info about the order and which are the products that the customer choose and the default info about the customer like phone number , address , and so on . Note : User can change the address of the order or phone number.
4-User choose the payment method from (cash	

Software Requirements Specifications

Actor Action	System Response
on delivery , voucher , loyalty points , smart wallets). 5-User choose to pay with **voucher .** 6-User enter the unique code of the voucher .	
	7-system **can not verify this code of voucher or the voucher can not cover the total price of order + shipping cost**. 8-system display message to the user tells him that we either we can not verify the voucher code or the voucher can not cover the total price of order. 9-system display the other payment methods. Note :user can pay part of the order by voucher and part by any other method.
10-User choose one payment method from this (smart wallets , cash on delivery , loyalty points). 11-User choose to pay by loyalty points	
	12-system check that the loyalty points are enough for this order. 13-system delete this points from the total points of the user + shipping cost . 14-system display all order info and the deliver date with message successful order.
15-And so on.	

Exceptional Scenario #4

Actor Action	System Response
1-User choose some products. 2-user choose to make order.	
	3-system get the info about the order and which are the products that the customer choose and the default info about the customer like phone number , address , and so on . Note : User can change the address of the order or phone number.

Software Requirements Specifications

4-User choose the payment method from (cash on delivery , voucher , loyalty points , smart wallets). 5-User choose to pay with **loyalty points** .	
	6-system **found that the loyalty points can not cover the total price of the order.** 7-system display message to the user tells him that there is no enough points to pay with loyalty points . 8-system display the other payment methods. Note :user can pay part of the order by voucher and part by any other method.
9-User choose one payment method from this (smart wallets , cash on delivery , loyalty points). 10-User choose to pay by loyalty points	
	11-system check that the loyalty points are enough for this order. 12-system delete this points from the total points of the user + shipping cost . 9-system display all order info and the deliver date with message successful order.
10-And so on.	

Exceptional Scenario #5

| Actor Action	System Response
1-User choose some products. 2-user choose to make order.	
	3-system found that the amount of products that the customer order is over the limitation . 4-system display a massage with limit amount of each item either it sealed by kilo or by unit .
4-User choose if he want to reduce amount or not confirm order .	

Software Requirements Specifications

- **Screen Design**
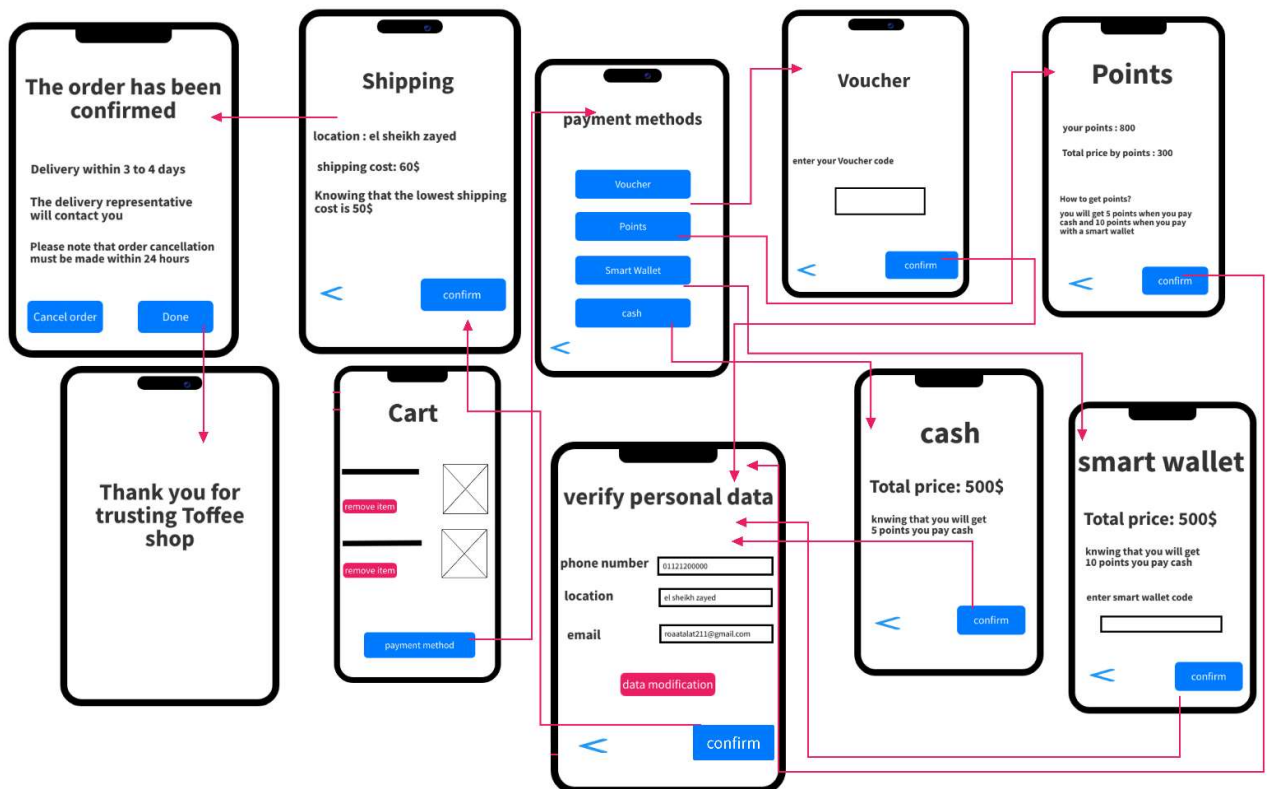
- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Change address of order	Text <100 character	Structured Text.
Chang quantity of items that sealed by unit	Integer <50	Integer >0
Change quantity of item for product sealed by kilo	Double <10.00	Double >0 in kilos

_____

- **User Story #6**

User Story ID	US #6

Software Requirements Specifications

User Story Name	Cancel order.
Actors	Customer
Description	**As** a customer **I like** to be able to cancel order **So** system should cancel order according to special procedures.
Per condition	Login & already made order in last days.
Post condition	
Acceptance Criteria	**Given** I'm login into the system and made order in the previous days, **When** I want to cancel this order **Then** the system follow specific procedures to cancel this order.

- **Scenarios**

Normal Scenario #1

Actor Action	System Response
1-user clicked to cancel order.	
	2-system checked when the user made this order and this was from less than 24 hours. 3- system checked the payment method user used to did the order. 4-sysem found that user will pay cash on the order. 5-system will delete 5 points from its loyalty points 6-system cancel order. 7-system display message that order canceled successfully.
8-And so on.	

Normal Scenario #2

Actor Action	System Response
1-user clicked to cancel order.	
	2-system checked when the user made this order and this was from less than 24 hours.

Software Requirements Specifications

	3- system checked the payment method user used to did the order.
	4-sysem found that user paid the price of the order by loyalty points or voucher or smart wallets .
	5-system will add the total price of the order to loyalty points of the user.
	6-system will delete 10 points from its loyalty points
	7-system cancel order.
	8-system display message that order canceled successfully.
8-And so on.	

Exceptional Scenario

Actor Action	System Response
1- User Enter to cancel the order.	
	2-system found that this order made before more than 24 hours.
	3-system will display message tells user that you can not cancel the order now it is already In the shipping process.
4-And so on .	

Software Requirements Specifications

- **Screen Design**
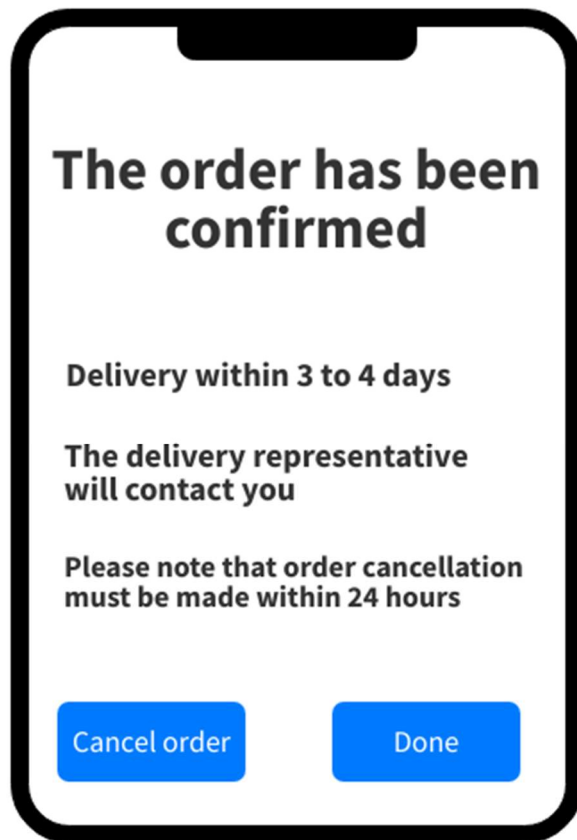
- **Data Dictionary:**

  User does not enter data in this user story.

_____

Software Requirements Specifications

- **User Story #7**

User Story ID	US #7
User Story Name	Buy voucher
Actors	Customer
Description	**As** a customer **I like** to be able to buy a voucher to present it to my friends or used it to buy orders. **So** system will help me to buy voucher.
Per condition	Login.
Post condition	
Acceptance Criteria	**Given** I'm a logged-into this app **When** I want to buy a voucher **Then** the system give me available vouchers and sell one to me.

- **Scenarios**

Normal Scenario

Actor Action	System Response
1-User want to buy voucher	
	2-system displays vouchers which the app own and the value of each voucher.
3-user choose to buy voucher with specific value.	
	4-system assign this voucher to this user and add it to user profile . 5-system delete the unique code of this voucher from the system.
6-And so on.	

Exceptional Scenario

No exceptional case in this user story.

Software Requirements Specifications

- **Screen Design**

- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Enter the value of voucher	Double <2000	Double >0

_____

- **User Story #8**

User Story ID	US #8
User Story Name	Use contact form
Actors	Customers
Description	**As** a customer I **like** to be able to tell the product managers about my complains and my recommendations.

Software Requirements Specifications

	So system will help me by using contact form.
Per condition	Login.
Post condition	
Acceptance Criteria	**Given** I'm a logged-out system user and I'm on the Sign-In page **When** I fill in the "Username" and "Password" fields with my authentication credentials and I click the Sign-In button **Then** the system signs me in

- **Scenarios**

Normal Scenario

| Actor Action	System Response
1-User choose contact form .	
	2-system open the contact form
3-user enter his data like name , address , phone number , email , and so on .	
	4-system give the user some choices (complains , recommendations , have a problem)
5-user choose the category he need. 6-user write his (problem, recommendation , complain).	
	6-system display message tells user that thanks for using our app and we will contact you as soon as possible to solve your problem 😊 .
7-And so on.	

Exceptional Scenario

No exceptional scenarios in this user story.

- **Screen Design**

Software Requirements Specifications
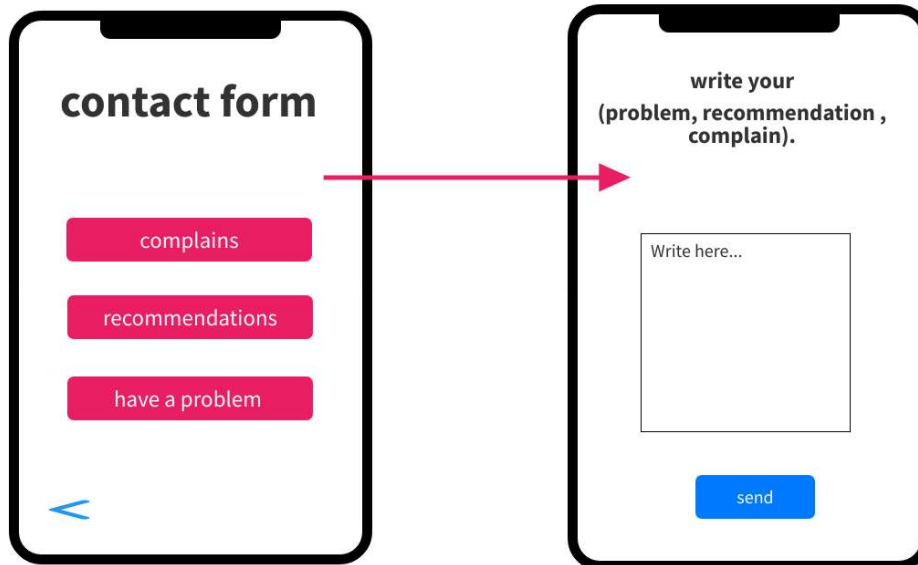
- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Enter Name	Text <100 character	Structured Text.
Enter phone number	Text <13 character	Structured phone number.
Enter email	Text <50 character	Structures email text.
Enter address	Text <100 character	Structured Text.
Enter complain or problem or recommendation.	Text <1000 character	Structured Text.

_____

- **User Story #9**

User Story ID	US #9
User Story Name	Admins log in to Toffee store
Actors	Admins
Description	**As** an Admin **I'd like** to be able to log in to the application. **So** that I can sign in and control my store.
Per condition	

Software Requirements Specifications

Post condition	
Acceptance Criteria	**Given** I'm an Admin and I'm on the log-in. **When** I fill in the log-in information fields with my credentials needed and I click log-in **Then** the system opened to my profile

- **Scenarios**

Normal Scenario

Actor Action	System Response
1-Admin clicks on log-in button	
	2- displays lg-in page 3- display boxes to input log-in information
4- Admin fills the required information in the boxes	
	5-System verifies the Amin information
	6- System opens the admin's profile

Exceptional Scenario #1

Actor Action	System Response
1-Admin clicks on log-in button	
	2- displays sign up page 3- display boxes to input log-in information
4- Admin fills the required information in the boxes	
	5-System verifies the user information
	6-System finds input information invalid
	7-System displays "Please enter valid information." message

Software Requirements Specifications

- **Screen Design**

Admins

ID

Password

Log in

- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Email field	Text < 100 Characters	Structured Text
Password field	Alphanumeric < 100 Characters	Password confirmation and must include an uppercase letter, numbers and/or special characters

_____

Software Requirements Specifications

- **User Story #10**

User Story ID	US #10
User Story Name	Admin add item
Actors	Admin
Description	**As** an admin **I'd like** to add a new item to the store. **So** that I can share my new product
Per condition	The item doesn't exist
Post condition	
Acceptance Criteria	**Given** 'm an admin and logged-in my store. **When** add an item with its name, description, image , brand , price and discount percent if exist and its specific category. I **Then** the system adds this item to its category

- **Scenarios**

Normal Scenario

Actor Action	System Response
1-User clicks on log in 2-Add a new item to a specific category. 3-Add all properties of the new product.	
	4-the system adds this item to its category 5-display a message " the item has been added successfully"

exceptional Scenario #1

| Actor Action	System Response
1-Admin logged-in already 2-Add a new item to a specific category. 3-Add all properties of the new product.	
	4-the system displays an error message " This category is not found"
5- Admin makes a new category and adds these properties.	

Software Requirements Specifications

	6-System add this category 7-system displays a message says "This category has been added successfully"
8-Admin adds the item again with all specifications	
	9-system adds this item to its category 10-system displays a message "The item has been added successfully to the category to the customers"

exceptional Scenario #2

Actor Action	System Response
1-Admin logged-in already 2-Add a new item to a specific category. 3-Add all properties of the new product.	
	4-the system displays an error message " This item is already existing"
5- Admin clicks "ok" and doesn't do anything	

- **Screen Design**
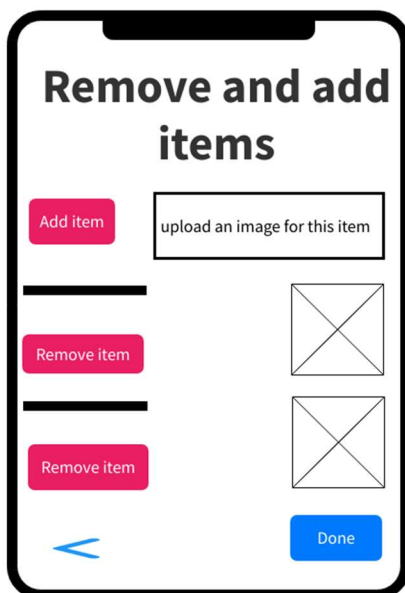
Software Requirements Specifications

- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Item name	Text < 100 Characters	Structured Text.
Item price	Text < 100 Characters	Structured Text.
Item image	PNG, jpeg, jpg , GIF	PNG , jpeg, jpg, GIF
Discount percentage	INTEGERS<50%	Int>=0.
Item brand	Text < 100 Characters	Structured Text.

- **User Story #11**

User Story ID	US #11
User Story Name	Delete an item
Actors	Admin
Description	**As** an admin **I like** to delete an item from the store items. **So,** I delete it from its category.
Per condition	Log-in
Post condition	
Acceptance Criteria	**Given** Admin logged into the system. **When** Admin choose an item from the items list and delete it. **Then** system delete it from the item's list and from data base.

- **Scenarios**

Normal Scenario

| Actor Action	System Response
1-Admin logged-in. 2-choose a specific category 3-choose an item from the list and delete it	
	4-system deletes it from the data base and the

Software Requirements Specifications

	items available and shows a screen message " The item has been deleted successfully".

Exceptional Scenario #1

Actor Action	System Response
1-Admin logged-in. 2-choose a specific category 3-choose an item from the list and delete it	
	4-system cannot find product in the database And displays error message. "Product you chosen is not found"
5-Admin checks again if the item exists in the database or in the system to the user.	
	6-system displays a confirm message to the admin that the item is not in the system

- **Screen Design**
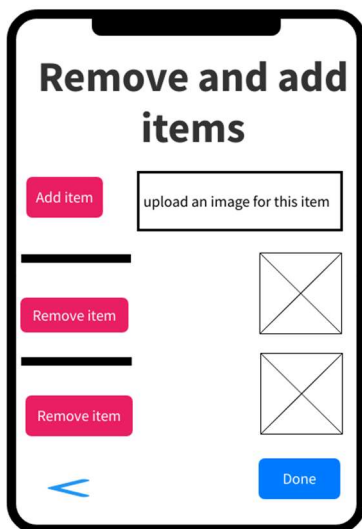
Software Requirements Specifications

- **Data Dictionary:**

Admin does not enter data in this user story.

- **User Story #12**

User Story ID	US #12
User Story Name	Show statistics
Actors	Admin
Description	**As** an admin **I like** to show the status of my store. **So** system should display the statistics of the products.
Per condition	Log-in
Post condition	
Acceptance Criteria	**Given** I login into app and go to my profile. **When** I click on the button view statistics **Then** the system must show me the status of my store..

- **Scenarios**

Normal Scenario

Actor Action	System Response
1-Admin login to system. 2- Admin clicks on the sidebar.	
	3-System shows the functionalities that the admin can do.
4-Admin choose statistics.	
	5-system displays a page contains the last statistics that the admin saw at the last time And button "view new statistics".
6-Admin clicks on the button. 7-choose the time from when he/she wants to know the state of their store. 8-choose he/she wants it as a table or diagram	

Software Requirements Specifications

of plots and so on.	
	9-the system calculate its calculations and displays the statistics of the sells

Exceptional Scenario

| Actor Action	System Response
1-Admin login to system. 2- Admin clicks on the sidebar.	
	3-System shows the functionalities that the admin can do.
4-Admin choose statistics.	
	5-system displays a page contains the last statistics that the admin saw at the last time And button "view new statistics".
6-Admin clicks on the button. 7-choose the time from when he/she wants to know the state of their store. 8-choose he/she wants it as a table or diagram of plots and so on.	
	9- If the sales of the store don't change, the system will print out "The state of the store does not change"

- **Screen Design**

Software Requirements Specifications
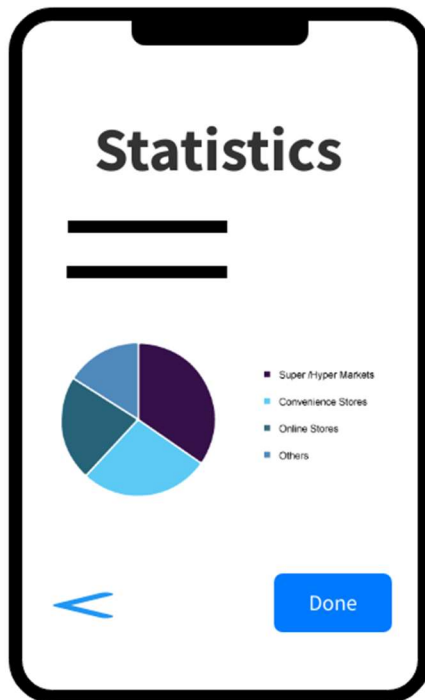
- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
time	Date/Time < 15 Characters	DD/MM/YY 24-hour format

_____

- **User Story #13**

Admin Story ID	US #13
Admin Story Name	View all orders
Actors	**Admin**
Description	**As** an admin **I like** to be able to view all the orders of my customers. **So** the system prepare it for me.
Per condition	Login .
Post condition	

Software Requirements Specifications

Acceptance Criteria	**Given** I'm an admin and I login into the app. **When I** ask the system to display all orders that have been submitted from the customers. **Then** the system delivers it to me.

- ## Scenarios

Normal Scenario

Actor Action	System Response
1-Admin logged-in. 2-admin opens the sidebar.	
	3-System shows the functionalities that the admin can do.
4-Admin choose to view all the orders.	
	5-system displays a page contains all the orders that the customers ordered with the quantities and the time at which this ordered and the time at which it should be delivered.
5-Admin can choose to sort it by time or by quantity or by usernames and so on.	
	6-system displays the orders in the sorting that chosen by the admin.

- ## Screen Design
There are no screen design for this user story.

- ## Data Dictionary:

Admin does not enter data in this user story.

_____

Software Requirements Specifications

- **User Story #14**

Admin Story ID	US #14
Admin Story Name	Change Password
Actors	Admin
Description	**As** an Admin **I like** to be able to change my email password **So** system should apply this changes.
Per condition	
Post condition	
Acceptance Criteria	**Given** I go to change my password **When** I want to change it or forget it during log-in process **Then** the system save these changes.

- **Scenarios**

Normal Scenario

Actor Action	System Response
1-Admin logged-in 2-Admin clicks on the profile icon	
	3-the system displays the profile of the admin And some functionalities at the sidebar
4- admin choose security section	
	5-system goes to another page that contain password and all the security features
6-the admin clicks password	
	7-system asks the admin to enter his/her password again to verify its identity.
8-Admin fills the boxes	
	9-the system asks the admin if he/she wants to change its password
10-admin choose to change the password	
	11-system asks the admin to enter a new password and enter it again to confirm it

Software Requirements Specifications

12-admin fills the boxes	
	13-system displays a message "Password has been changed successfully"

Exceptional Scenario #1

Actor Action	System Response
1-Admin choose to log-in 2-Admin fills the boxes of email and password	
	3-the system checks the correctness of the info entered and display a message "the email or the password you have entered is wrong" And display a message as a link "You forget the password?"
4-Admin clicks the link "You forget the password?"	
	5-system goes to another page to confirm that you are the real owner of this email By **send a code to admin's phone number**
6-the admin enter the code sent to him/her in the box 7-clicks the button verify	**NOTE** Admin should wait about 60 secs until the code sent if not choose to send it again of if he/she entered it wrong so he/she can enter it again or the system may send a new one
	7-system show the admin a new page which contains two boxes the first to enter the password and the second to rewrite the new password again.
8-Admin fills the boxes	
	9-the system shows a message says "the changes are saved"

Exceptional Scenario #2

Actor Action	System Response

Software Requirements Specifications

1-Admin choose to log-in 2-Admin fills the boxes of email and password	
	3-the system checks the correctness of the info entered and display a message "the email or the password you have entered is wrong" And display a message as a link "You forget the password?"
4-Admin clicks the link "You forget the password?"	
	5-system goes to another page to confirm that you are the real owner of this email By **send a confirmation mail to your email on Gmail**
6-the user goes on the link that has been sent in the Gmail which takes you to a new page in the system	
	7-system show the admin a new page which contains two boxes the first to enter the password and the second to rewrite the new password again.
8-Admin fills the boxes	
	9-the system shows a message says "the changes are saved"

- **Screen Design**

  There are no screen design for It.

- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Email field	Text < 100 Characters	Structured Text
Password field	Alphanumeric < 100 Characters	Password confirmation and must include an uppercase letter, numbers

Software Requirements Specifications

Element Label	Type/Length	Data Validation / Business Rule
		and/or special characters

_____

- **User Story #15**

Admin Story ID	US #15
Admin Story Name	Suspend a user
Actors	Admin
Description	**As** an admin **I like** to suspend a user from some services. **So** system will help me to suspend a user.
Per condition	Login.
Post condition	
Acceptance Criteria	**Given** I'm a logged-into this app **When** I want to suspend a user **Then** the system will suspend this user from making orders.

- **Scenarios**

Normal Scenario

Actor Action	System Response
1-Admin logged-in 2-Admin goes to the list of the users of store	
	3-system displays a list of users
4-admin will search about the users that exceed the maximum limit of purchase	
	5-system will suspend the user from database And displays a message that. "The user has been suspended successfully." **Note** The user can see the items in the store, but he cannot add it to the cart.

Exceptional Scenario

Software Requirements Specifications

No exceptional case in this story.

- **Screen Design**

There are no screen design for this user story .

- **Data Dictionary:**

Admin does not enter data in this user story.

_____

- **User Story #16**

Admin Story ID	US #16
Admin Story Name	Set & Update shipping cost
Actors	Admin
Description	**As** an admin **I like** to be able to set and update the shipping cost. **So** system will update these costs to the users.
Per condition	Login.
Post condition	
Acceptance Criteria	**Given** I logged-in. **When** I want to set and update the shipping costs. **Then** the system updates the changes to the user.

- **Scenarios**

Normal Scenario

Actor Action	System Response
1-Admin logged-in. 2-go to the department of shipping cost	
	2-system opens the page of the items with shipping cost attribute

Software Requirements Specifications

3-Admin changes the shipping cost or add a new shipping cost to new items	
	4-system updates these changes in the data base and to the user interface and displays a message "The shipping costs have been updated successfully"

Exceptional Scenario

No exceptional scenarios in this story.

- **Screen Design**

- **Data Dictionary:**

Software Requirements Specifications

Element Label	Type/Length	Data Validation / Business Rule
Enter shipping cost	Integers <100 LE	Integers>0

- ## User Story #17

Admin Story ID	US #17
Admin Story Name	Set & Update max amount of products per one order
Actors	Admin
Description	**As** an admin **I like** to be able to set and update the max amount per order. **So** system will update this info to the user when he/she tries to buy a lot of purchases.
Per condition	Login.
Post condition	
Acceptance Criteria	**Given** I logged in. **When** I want to set and update max number of purchases per order. **Then** the system updates the changes.

- ## Scenarios

Normal Scenario

Actor Action	System Response
1-Admin logged-in. 2-go to the department of purchases	
	2-system opens the page of the items with purchases (max amount) attribute
3-Admin changes the max amount for each item(either they are bought by kilo or unit) and Determine the max amount on cash orders.	NOTE If the user buys from the site cash so the admin should define the max amount before.
	4-system updates these changes in the data base and displays a message "The max amount has been updated

Software Requirements Specifications

	successfully"

Exceptional Scenario

No exceptional scenario for this story

- ### Screen Design

There are no screen design for this user story.

- ### Data Dictionary:

No data entered by the user for this admin story.

- ### User Story #18

Admin Story ID	US #18
Admin Story Name	Set & update loyalty points schema
Actors	Admin
Description	**As** an admin **I like** to be able to set a loyalty schema and updates it whenever I want. **So** system will update this info to the user when he/she tries to buy by loyalty points or when he/she sign up for the first time.
Per condition	Login.
Post condition	
Acceptance Criteria	**Given** I logged in. **When** I want to set and update loyalty schema. **Then** the system updates the changes.

- ### Scenarios

Normal Scenario

Actor Action	System Response
1-Admin logged-in.	

Software Requirements Specifications

2-go to the department loyalty schema	
	2-system opens the page of the loyalty plan schema
3-Admin changes the loyalty point for each item or for each category as a total	
	4-system updates these changes in the data base and displays a message "The max amount has been updated successfully"

Exceptional Scenario

No exceptional scenario for this story

- ## Screen Design

There are no screen design for this user story.

- ## Data Dictionary:

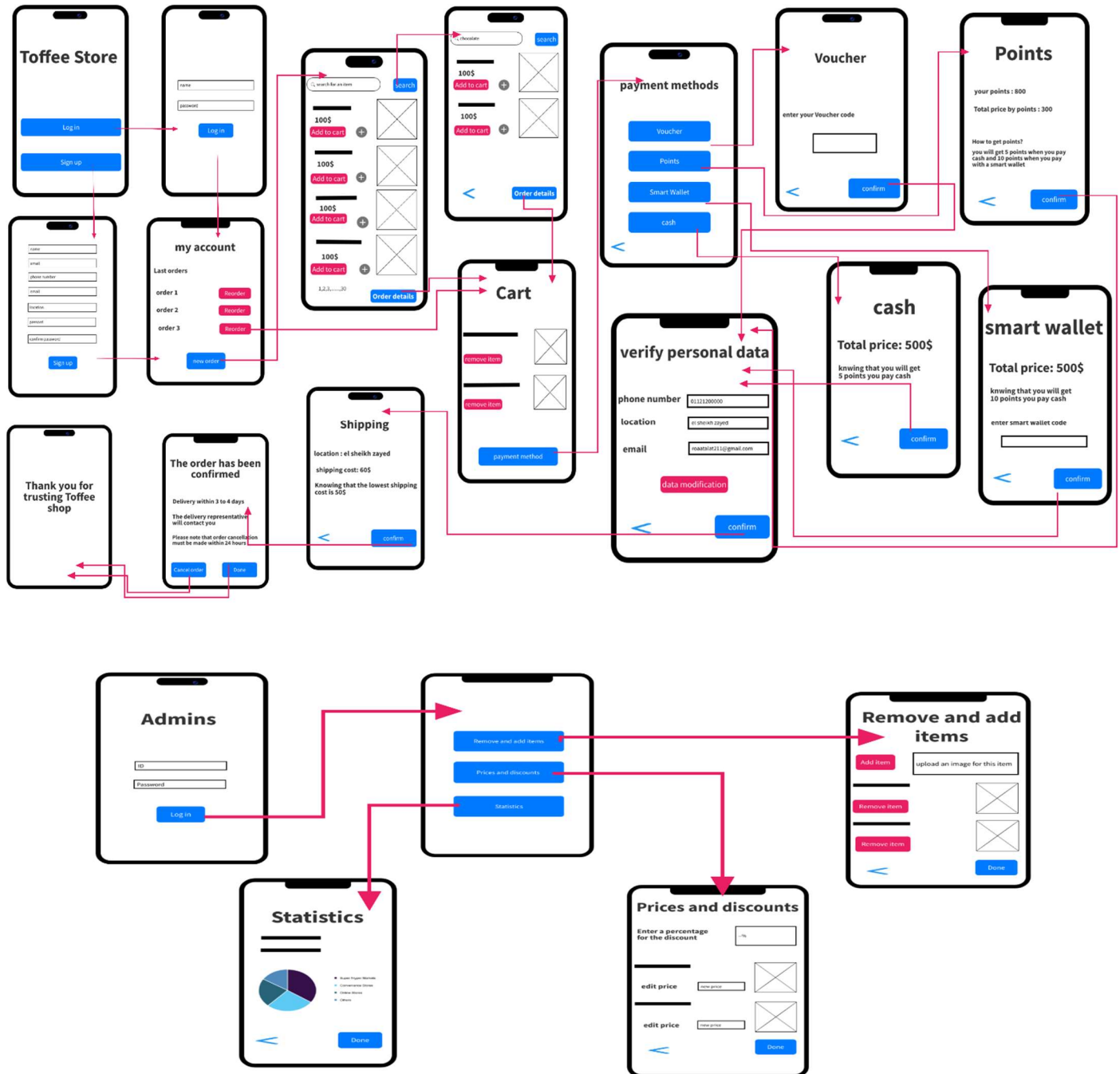**No data entered by the user for this admin story.**

Software Requirements Specifications

System Navigation Map

Software Requirements Specifications

Tools

Tool of system navigation Map:

- [Online Wireframing and Product Design Tool | MockFlow](#)

Tools of Use case design:

- https://www.lucidchart.com

Ownership Report

Student	Items he created
Salma Mamdoh sabry	- Define purpose of the document and audience. - Define the system purpose and system scope. - Define definitions, asynchronous, abbreviations. - Define functional requirements and non-functional requirements.
Jana Raafat Abd Elhammed	- Use case Model - Define actors and their roles
Roaa Talat Mohamad	System navigation Map