Cairo University Faculty of Computers and Artificial Intelligence



CS251

Intro to Software Engineering

Toffee

Software Requirements Specifications

Version 1.0

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Software Requirements Specifications

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Software Requirements Specifications

Team

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Document Purpose

The purpose of the document is to clarify the software requirements agreed upon by the stakeholders by identifying the required functionalities of the software in order to minimize development time and costs by clarifying the requirements.

Audience

- Customer
- General User
- System Admin

Introduction

Software Purpose

The purpose of Toffee is to sell their various types of sweets on cross platforms, showing the nutrition facts of each product along with some other features described in the document.

Software Scope

- The system has three major users; the general user with registration who can only view items
 offered by Toffee, the customer registered with his email, password and shipping address, and the
 system admin that monitor the system and do tasks assigned to him
- Each customer will be able to:
 - o Choose items from catalog with any quantity up to 50 units/kilos
 - o View order history and re-order
 - Buy gift vouchers for someone else
 - Checkout and specify a shipping address





Software Requirements Specifications

- Proceed to payment and choose a payment method/s, either by pay with his smart wallets or pay cash on delivery. It's also possible to use his loyalty points or vouchers to reduce total price.
- Customer is subjected to 50 units/kilos for each item in one order. In addition to maximum price to pay using cash. If the user wants more, he must pre-pay (no cash)
- System will be able to:
 - Updates catalog with new items
 - o Cancel items
 - o Updates item info
 - o Adds a discount percentage to an item, category or all items
 - Views all orders
 - Sets loyalty points scheme
 - o Suspends a user
 - Views statistics

Definitions, acronyms, and abbreviations

ОТР	Stands for One-Time Password, it is the most common authentication method, where it provides a unique password sent to a mobile number or email given, to verify that this info belong to that user.
CVV	Stands for Card Verification Value. It's composed of three-digit number provided by companies, that exist in the back side of bank cards
Loyalty points	These are points provided to the user that increase each he make a new order, where he can reuse them later as a wallet to pay in future orders. The loyalty points follow a specific scheme provided by the system admin.
Voucher	This is a code often provided by the system admin that can be used as a discount for the user in orders. Its purpose is to encourage the users to make more orders.





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Requirements

Functional Requirements

Requirement ID	Requirement Description
FR01	 A general user can view All items in the catalog Items in specific category Search for an item by name or by brand
FR02	A general user must login/register to become a customer and be able to buy. The user have to fill in his username and password to log in.
FR03	 A general user registers providing valid email, a password and an address. A system sends an OTP to the email used to verify it. User enters the OTP to complete registration; otherwise, registration is rejected.
FR04	 Customer adds items to buy in his/her shopping cart. Customer can choose the quantity of any item up to 50 units/kilos in one order
FR05	Customer can view their order history
FR06	Customer can re-order by clicking "re-order" button [this makes same exact order with same exact conditions]
FR07	 Customer can buy gift vouchers to give as a gift to someone System provides a one-time unique code for the gift voucher
FR08	 Customer can reduce the total price by: Redeeming the gift code only once Using the loyalty points Voucher provided by the system
FR09	 Customer check-out to pay and chooses payment method Customer can pay cash on delivery Customer enter a valid mobile number if they are paying





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	upon delivery
	upon delivery
	 System sends an OTP to the mobile number provided by the
	user
	Customer enter the OTP to verify the mobile number
	 Customer can pay via smart wallets (credit card, Fawry,.)
	Customer specify the shipping address
FR10	 It can be the same address registered on their profile
	 It can be another address, in case they are buying a gift from
	someone for instance
FR11	Customer cancel an order after being placed
FR12	System can log in as an admin
FR13	System admin updates catalog with new items
	 Including name, category, description, image, brand, price
FR14	System admin cancel items
FR15	System admin updates item info
	System admin adds a discount percentage to:
FR16	o An item
	o A category
	o All items
FR17	System admin views all orders
FR18	System admin sets loyalty points scheme
FR19	System admin suspends a user
	System admin views statistics which:
	 Provide store owners with a view of how the store is doing, This
FR20	may include:
	 Daily and monthly sales
	 Sales of each item in a period of time Most popular products

CS251: Phase 1 – Survivors

Project: <Toffee>



Software Requirements Specifications





Software Requirements Specifications

Non Functional Requirements

	Details
Performance	 Five seconds for registration and two seconds for login processes. Withdraw operation will be done within 3 seconds.
Scalability	The system allows up to 30,000 withdrawals per minute while maintaining optimal performance.
Portability and compatibility	 The system has cross platform, it can be launched on different platforms like IOS or Android and different operating systems and their versions. The system is provided with compatibility as for example; it can run on windows 10 or 11 and IOS devices which have different versions without any change in its behavior or performance.
Reliability	• The system has 95% reliability for a month, this means that during this month, under normal usage conditions, there's a 95 percent chance that the system won't experience critical failure.
Maintainability	The mean time to restore the system (MTTRS) following a system failure is approximately 15 minutes.
Availability	• The system is available 85% of the time during a month, as there are possibilities for special occasions or where orders cannot be placed during those days, also a usual day or two every month for maintenance.





Software Requirements Specifications

Usability	 The frequent user doesn't have to enter his personal information every time during the checkout process. The user can learn quickly how to deal with the system through the interface. The system's interface is pleasant to use and satisfies the user's visual needs. The user can go back and edit information regarding the cart or personal information during the checkout process. The error rate of users submitting their order at the checkout page mustn't exceed 10 percent.
Security	The system uses a secured network protocol which encrypts all personal information of the user like his password and credit card number.

CS251: Phase 1 – Survivors

Project: <Toffee>



Software Requirements Specifications

CS251: Phase 1 – Survivors

Project: <Toffee>



Software Requirements Specifications

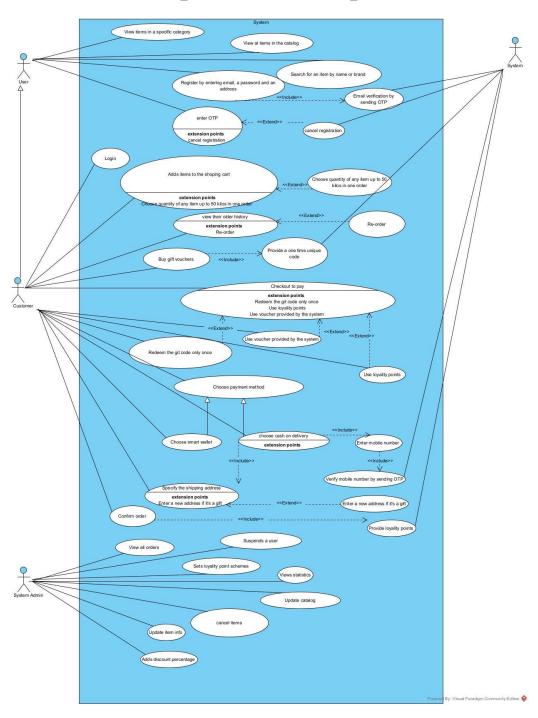
System Model

Use Case Model





Software Requirements Specifications







Software Requirements Specifications

Enriched User Stories

• User Story #1

User Story ID	US #02
User Story Name	Login
Actors	General user customer
	As a general user
Description	I like to be able to login with my email and password
Description	So I will be able to interact with the system and could make any
	operation within it
Per condition	I have registered before and verified all my data
Post condition	will be able to interact with the system
	Given I'm a logged-out system user and I'm on the Sign-In page
Acceptance Criteria	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

Normal Scenario

Actor Action	System Response
 The user navigates to the login page. Enter his email and password 	
	3. The system authenticates the user.4. Navigate automatically to the main page
5. User has logged in successfully	



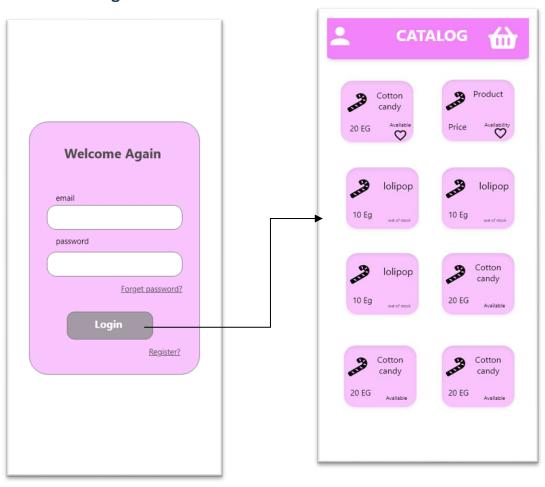


Software Requirements Specifications

• Exceptional Scenario

Actor Action	System Response
1. Enter password	
	 System doesn't authenticate the user's info due any issue in the database system used.
3. User can't log in the system	

Screen Design







Software Requirements Specifications

• Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Email field	Text < 100 char	Structured Text
Password field	Text < 100 char	Structured Text





Software Requirements Specifications

User Story #2

User Story ID	US #03
User Story Name	Registration
Actors	General user (customer)
Description	As a general user (customer) I like to be able to register to the system by my email and phone number, and verified my phone number with the system. So, I will be member of the system and I would be able to buy or Interact with the catalog
Per condition	The user navigates to the login page then navigate to register page
Post condition	The user would be able to add to the card any item, buy and re-order in general he would be able to interact with the system.
Acceptance Criteria	Given I have successfully verified my phone number from the OTP SMS sent to my phone, When I have entered all my info including my name, email, phone number and password in the registration page Then the system navigates me to the sign in page.

Normal Scenario

Actor Action	System Response
 The user navigates to the login screen when he clicks on profile icon in case, he hasn't logged in. 	
2. The user navigates to register screen	
 Enter all his info including phone number 	4. Send OTP SMS to verify data
5. Enter the OTP pin code	6. System confirms code correctness
	Navigate the user automatically to login screen



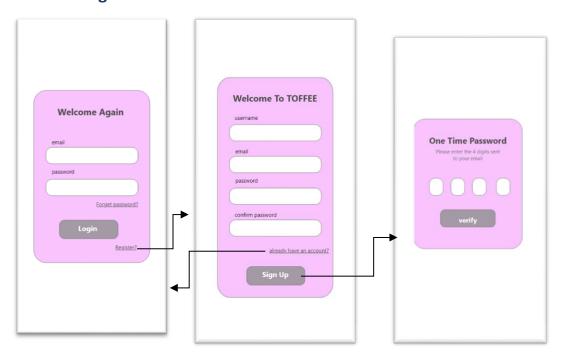


Software Requirements Specifications

• Exceptional Scenario

Actor Action	System Response
1. Enter OTP pin code	
	 System doesn't verify data or accept code correctness. Give the user error message. System hasn't saved user's data yet.
5. User can't register to the system	

• Screen Design







Software Requirements Specifications

• Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Username	Text < 100 char	Structured Text
Email	Text < 100 char	Structured Text
Password	Text < 100 char	Structured Text
Confirm password	Text < 100 char	Structured Text





Software Requirements Specifications

User Story #3

User Story ID	US #04	
User Story Name	Add items with different quantities	
Actors	Customer	
	As a general user	
Description	I like to be able to search in the catalog , choose item and choose the required quantity	
	So I will be able to check out my cart with the chosen items and complete the payment processes	
Per condition	I have logged in before and enter the system as a customer not only general user.	
Post condition	will be able to checkout my cart and complete the payment process	
Acceptance Criteria	Given the system has accepted the required quantity and hasn't shown any error message. When I have chosen a quantity within the available and acceptance quantity. Then the user complete his journey within the rest of items, finally check out the cart	

Normal Scenario

Actor Action	System Response
 The customer chooses an available quantity and within the total acceptance limit of each user 	
	The system doesn't refuse the chosen quantity and it to the cart successfully
 The customer Completes his journey and navigate to the payment process at the end of his shopping 	





Software Requirements Specifications

• Exceptional Scenario #1

	Actor Action		System Response
		1.	Show a message that the available quantity is limited of this item.
2.	The customer chooses a quantity within the total acceptance limit of each user but not available		
		4.	Show a message that the chosen quantity not available in the stock. Show the available quantity. Show a related items of this product so the user can choose the rest of required quantity from another products

• Exceptional Scenario #2

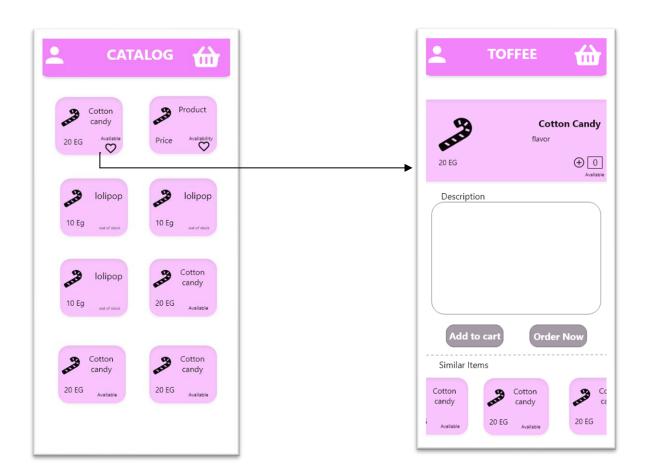
Actor Action	System Response
 The customer chooses an available quantity but not within the total acceptance limit of each user 	
	 The system refuses the chosen quantity and it to the cart successfully Show a message that this quantity is over the acceptance limit. The system decreases the amount to the acceptance quantity
The customer Completes his journey and navigate to the payment process at the end of his shopping	





Software Requirements Specifications

Screen Design



Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Quantity	Integer < 3 digits	Integer > 0 && Integer <= 50





Software Requirements Specifications

User Story #4

User Story ID	US #05
User Story Name	View Order History
Actors	Customer
	As I customer
Description	I like to be able to view all my previous orders.
	So, if I would like to re-order one of them, I could do that.
Per condition	I have logged in the system
Post condition	l could interact with the system
	Given I have navigated to the previous order screen.
Acceptance Criteria	When I clicked on previous orders button from the profile screen
7.000ptunioe enteriu	Then the system will display all my previous orders

Normal Scenario

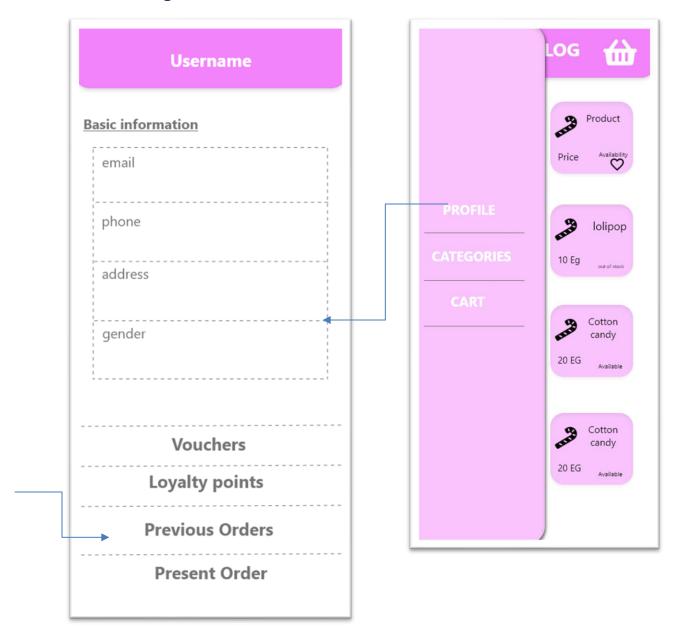
Actor Action	System Response
 Click on previous orders from profile screen 	
	 System displays all my previous orders if I have, else the system will display a message "you have not made any orders before"





Software Requirements Specifications

• Screen Design







Software Requirements Specifications

• Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Order number	Integer < 10 digits	Integer > 0 && Integer < 999999999





Software Requirements Specifications

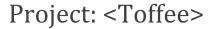
User Story #5

User Story ID	US #06
User Story Name	Re-order
Actors	Customer
	As a customer
Description	I like to be able to go to the profile.
Description	So I will be able to view all my previous orders if he has and choose one of them and order it again with all its details
Per condition	I have logged in before and enter the system as a customer not only general user.
Post condition	I will be able to go to my profile page and order one of my previous orders
	Given I have logged in and had order something before
	When I have navigated to previous orders screen from the profile
Acceptance Criteria	screen
	Then I would be able to view all my previous order and re-order one of them I want.

Normal Scenario

	Actor Action		System Response
1.	Navigate to the profile screen.		
2.	Choose the previous order option		
		3.	Show all the previous orders
4.	Select one of them and reorder it with all details		

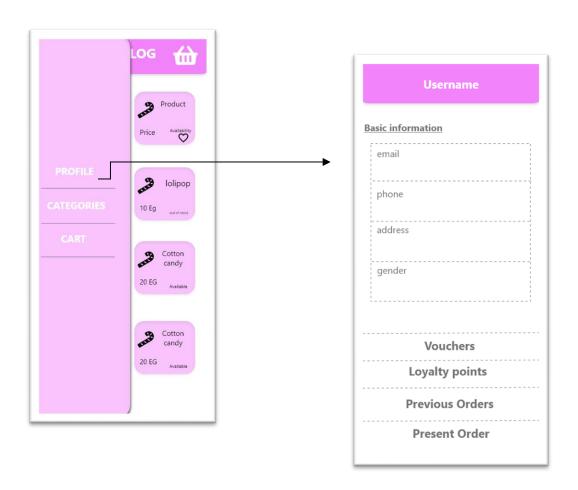






Software Requirements Specifications

• Screen Design



Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Order number	Integer < 10 digits	Integer > 0 && Integer < 999999999





Software Requirements Specifications





Software Requirements Specifications

• User Story #6

User Story ID	US #8	
User Story Name	Reducing Price of Order	
Actors	Customer	
	As a customer	
Description	I like to be able to reduce the price of an order before being placed	
	So I would benefit from additional discounts	
Per condition	The customer checkout an order to place	
Post condition	The customer would reduce the total price of the order	
	Given I'm a logged in system user who has chosen items to buy and	
Acceptance Criteria	trying to use vouchers/loyalty points and I'm on the order details page	
Acceptance Criteria	When I type voucher code or use my loyalty points	
	Then the system performs a specific discount on the order price	

Scenarios

Normal Scenario #1

Actor Action	System Response
1- User type voucher code provided by the	
system	
	2- System checks if the code is valid
	3- System apply the code and apply the
	relevant discount amount
3- User can place order with the new price	





Software Requirements Specifications

Normal Scenario #2

Actor Action	System Response
1- User choose to use his loyalty points given by	
the system	
	2- System checks number of loyalty points
	3- System apply the discount according to the
	loyalty points schema set by the admin
3- User can place order with the new price	

Normal Scenario #3

Actor Action	System Response
1- User choose gift voucher	
	2- System checks if the code is valid3- System apply the discount
3- User can place order with the new price	
	5- System disable the code after placing the order

Exceptional Scenario #1

Actor Action	System Response
1- User choose voucher code/gift voucher	
	2- The code is invalid3- System displays an error message
3- User can not apply the discount	

Exceptional Scenario #2

Actor Action	System Response
1- User choose to use his loyalty points given by	
the system	
	2- System checks number of loyalty points and
	it has no enough points
	3- System displays an error message
3- User can not apply the discount	



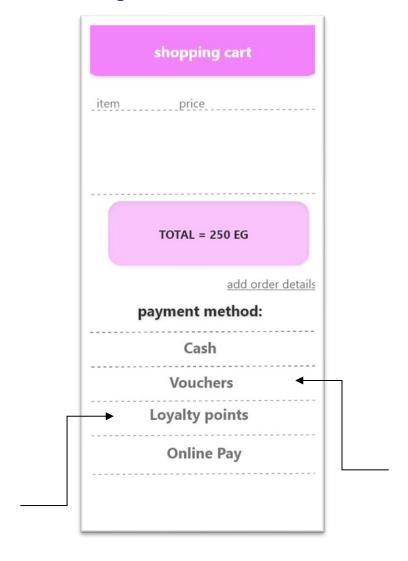


Software Requirements Specifications

Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Loyalty points	Integer < 5 digits	Integer > 0 && Integer < 1000
Voucher Code	Text < 100 char	Structured Text

• Screen Design







Software Requirements Specifications

User Story #7

User Story ID	US #9
User Story Name	Choosing Payment Method
Actors	Customer
	As a customer
Description	I like to be able to choose a payment method
	So I can complete the order in a relevant way
Per condition	The customer check-out to pay
Post condition	The customer have to verify his mobile number if he pays cash on delivery
	Given I'm a logged in system user who has chosen items to buy and
	wants to pay to place the order and I'm on the order details page
Acceptance Criteria	When I click check-out button
	Then the system direct me to the payment page

Scenarios

• Normal Scenario #1

Actor Action	System Response
1- User clicks <mark>Check-out</mark> button	
	2- System directs user to payment page
3- User Select Cash on delivery	
	4- System sends an OTP to the mobile number
	provided by the user
5- User enters the OTP sent	
	6- Mobile number verified
	7- Payment method saved successfully





Software Requirements Specifications

Normal Scenario #2

Actor Action	System Response
1- User clicks <mark>Check-out</mark> button	
	2- System directs user to payment page
3- User Select Master Card	
	4- System asks user to enter card credentials
5- User enters the credentials asked	
	6- System sends an OTP to the mobile number assigned with the master card
7- User enters the OTP	
	8- System checks if card is valid with bank system 9- System checks if enough balance in the master card for the order 10- System verify the card 11- Payment method saved successfully

• Exceptional Scenario #1

Actor Action	System Response
1- User clicks <mark>Check-out</mark> button	
	2- System directs user to payment page
3- User Select Cash on delivery / master card	
	4- System sends an OTP to the mobile number provided by the user
5- User enters the OTP sent	
	6- OTP is invalid 7- System displays an error message / re-send OTP



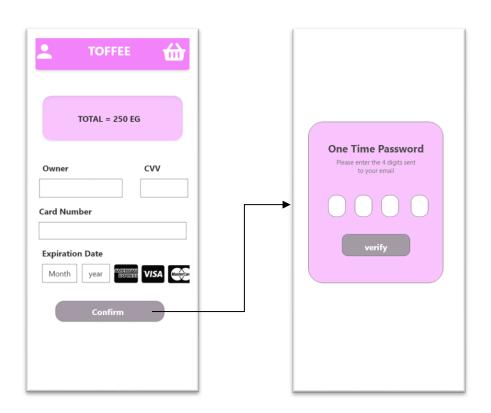


Software Requirements Specifications

• Exceptional Scenario #2

Actor Action	System Response
1- User clicks <mark>Check-out</mark> button	
	2- System directs user to payment page
3- User Select Master Card	
	4- System asks user to enter card credentials
5- User enters the credentials asked	
	3- Card is invalid
	4- Systems rejects card and displays an error
	message

• Screen Design







Software Requirements Specifications

• Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Master Card Number	Integer = 16 digits	Integer = 16
Master Card Holder Name	Text < 100 char	Structured Text
Master Card CVV	Integer = 3 digits	Integer = 3
OTP Code	Integer < 10 digits	integer > 0 && integer < 10





Software Requirements Specifications

User Story #8

User Story ID	US #10
User Story Name	Specifying the Shipping Address
Actors	Customer
As a customer	
Description	I like to be able to specify the shipping address in each order
	So I would be able to change the address whenever I need
Per condition	The customer is specifying order details
Post condition	The customer will confirm the address
Acceptance Criteria	Given I'm a logged in system user who has chosen items to buy and is trying to choose the address to ship to and I'm on the order details page When I choose same shipping address related to the account or a new address Then the system allows either options and confirms the shipping

Scenarios

Normal Scenario #1

Actor Action	System Response
1- User clicks Specify New Address button	
	2- System directs the user to shipping info
	screen
3- User enters the shipping details	
	4- System confirm the shipping address details
	5- System saves the address for future orders
6- User can go Back to Cart button	





Software Requirements Specifications

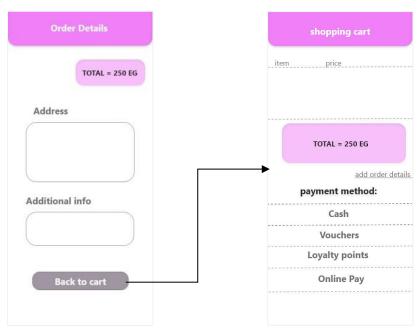
Normal Scenario #2

Actor Action	System Response
1- User choose current address	
	2- System confirm the shipping address details

Exceptional Scenario

Actor Action	System Response
1- User clicks Specify New Address button	
	2- System directs the user to shipping info
	screen
3- User enters the shipping details	
	4- System confirm the shipping address details
	5- System finds missing details and displays an
	error

Screen Design







Software Requirements Specifications

Element Label	Type/Length	Data Validation / Business Rule
Building Number	Integer < 5 digits	Integer > 0 && Integer < 1000
Street Number/Name	Text < 100 char	Structured Text
Shipping Description	Text < 1000 char	Structured Text
Floor Number	Integer < 5 digits	Integer > 0 && Integer < 1000
Apartment Number (if any)	Integer < 5 digits	Integer > 0 && Integer < 1000





Software Requirements Specifications

User Story #9

User Story ID	US #11
User Story Name	Cancel an order placed
Actors	Customer
	As a customer
Burning	I like to be able to cancel an order after being placed
Description	So I would not be subjected to an order that I don't need anymore, or
	I can edit the order details or order again later
Per condition	The customer placed an order not shipped yet
Post condition	The customer won't receive the order or pay for
	Given I'm a logged in system user who has chosen items to buy and
Acceptance Criteria	placed the order successfully and I'm on the order details page
	When I click cancel order button
	Then the system confirms cancellation and cancel the order

Scenarios

Actor Action	System Response
1- User clicks <mark>Cancel Order</mark> button	
	2- System displays a confirmation message
3- User confirms	
	4- System cancel order
	5- System refund the money back if paid using
	master card
	6- Order cancelled successfully

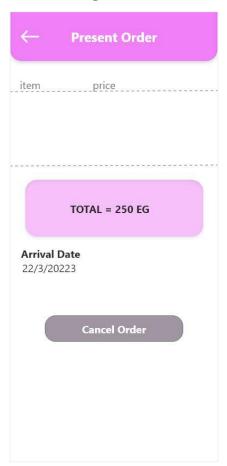




Software Requirements Specifications

Exceptional Scenario

Actor Action	System Response
1- User clicks Cancel Order button	
	2- System displays a confirmation message
3- User does not confirm	
	4- System does not cancel the order and
	process the order normally







Software Requirements Specifications

User Story #10

User Story ID	US #12
User Story Name	Log in as a system admin
Actors	System Admin
	As a system admin
Description	I like to be able to log in with special credentials.
	So, I can be able to manage the system.
Per condition	The system's database can identify my credentials as the system admin.
Post condition	Navigate through the system's pages with respect to the system admin's functionalities.
	Given I'm a logged-out system admin.
Acceptance Criteria	When I log in with special credentials.
	Then I can navigate through the system's pages.

Scenarios

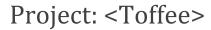
Normal Scenario

Actor Action	System Response
1- Login to the system through special credentials2- Confirm log in	
	3- The system verifies log in as the system admin.

Exceptional Scenario

Actor Action	System Response
1- Login to the system through special credentials2- Confirm log in	
	3- One of the credentials is invalid.4- The system rejects and requires valid credentials to authenticate.







Software Requirements Specifications

Screen Design



Element Label	Type/Length	Data Validation / Business Rule
Username	Text < 100 char	Structured Text
Password	Text < 100 char	Structured Text





Software Requirements Specifications

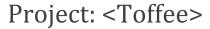
User Story #11

User Story ID	US #13
User Story Name	Update catalog with a new item
Actors	System Admin
Description	As a system admin I like to be able to update the catalog, which is viewing all items that are being sold.
	So, I can add an item to the catalog an all its specifications.
Per condition	The catalog's capacity is updated.
Post condition	Item is presented in the catalog along with other items in the system's interface and the system's database is updated.
Acceptance Criteria	Given I'm logged in as the system admin. When I choose to update the catalog and click on add a new item. Then I can add the item and its specifications in every needed field.

Scenarios

Actor Action	System Response
	1-The system verifies log in as the system admin.2-The system displays the catalog
3- The admin clicks on add a new item	
	4- The system displays fields for (item name, category, description, image, brand, price, and quantity available.)
5- The admin enters data in all required fields.	
6- The admin confirms adding this item	
	7- The system updates its database with this new item.







Software Requirements Specifications

• Screen Design



Element Label	Type/Length	Data Validation / Business Rule
Item Name	Text < 100 char	Structured Text
Category	Text < 100 char	Structured Text
Description	Text < 1000 char	Structured Text
Price	integer < 5 digits	Integer > 0 && integer < 9999
Quantity	Integer < 4 digits	Integer > 0 && integer <= 100





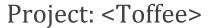
Software Requirements Specifications

User Story #12

User Story ID	US # 14
User Story Name	Cancel item from the catalog
Actors	System admin
	As a system admin
Description	I like to be able to cancel any item from the catalogue.
Description	So, I can remove items that have run out from stock or items that are not being sold anymore.
Per condition	Item is already present in the catalog and the system's database
Post condition	The item is removed from the system's database and the software's interface.
	Given I'm logged in as the system admin.
	When I view all items that are present in the catalogue, I can click on
Acceptance Criteria	cancel item beside any item.
	Then the systems show a window for confirming the removal process and warnings involved with this action.

Actor Action	System Response
	1- The system displays the catalog
2- The admin searches for the item he wants to cancel.	
	3- System retrieves the item on the screen and "cancel item" button besides it.
4- The admin clicks on cancel item	
	5- The system shows a confirm cancellation window including all warnings.
6- The admin confirms the cancellation.	
	7- The system updates its interface and its database.







Software Requirements Specifications

Exceptional Scenario #1

Actor Action	System Response
 The admin searches for the item he wants to cancel. 	
	2- The system displays that there is no item with this name in the catalogue.







Software Requirements Specifications

User Story #13

User Story ID	US # 15	
User Story Name	Update an item info	
Actors	System admin	
	As a system admin	
Description	I like to be able to update any item's info from the catalogue.	
	So, I can change its price, quantity, name, or image.	
Per condition	Item is already present in the catalog and the system's database	
Post condition	The item's info is updated in the system's database and the software's interface.	
	Given I'm logged in as the system admin.	
	When I view all items that are present in the catalogue, I can.	
Acceptance Criteria	Choose any item from the present items or search for it.	
	Then I click on edit button to edit and the system display every item info and a field for its values which I can change.	

	Actor Action		System Response
		1-	The system displays the catalog
2-	The admin searches for the item he wants to edit its info.		
		3-	System retrieves the item on the screen and "edit" button besides it.
4-	The admin clicks on edit item		
		5-	The system shows fields with item's specifications (quantity, name, description, image, price, category) with their values with the ability to enter any field and edit it.
6-	The admin chooses the field he wants to edit and confirm his update.		
		7-	The system updates its interface and its





Software Requirements Specifications

database.

• Exceptional Scenario

Actor Action	System Response
1- The admin searches for the item he wants to edit its info.	
	2- The system displays that there is no item with this name in the catalogue.







Software Requirements Specifications

Element Label	Type/Length	Data Validation / Business Rule
Item Name	Text < 100 char	Structured Text
Category	Text < 100 char	Structured Text
Description	Text < 1000 char	Structured Text
Price	integer < 5 digits	Integer > 0 && integer < 9999
Quantity	Integer < 4 digits	Integer > 0 && integer <= 100





Software Requirements Specifications

User Story #14

User Story ID	US # 16
User Story Name	Add discount percentage to an item or to all items
Actors	System admin
	As a system admin.
Description	I like to be able to apply a discount percentage to a specific item or all items in the catalogue.
	So, I can make the software always up to date to all decisions taken by the Director of Ecommerce.
Per condition	There isn't a discount that is already present.
Post condition	Price of an item of all items is updated.
	Given I'm logged in as the system admin.
	When I open the catalogue I can click on add a discount on the top of
Acceptance Criteria	the screen, beside click on it beside a specific item.
	Then I will be able to apply a discount percentage if there is a special
	occasion.

	Actor Action		System Response
		1-	The system displays the catalog
2-	The admin clicks on add discount at the top of the catalogue page or beside a specific item.		
		3-	System displays the item's price and field to add a discount percentage.
4-	The admin adds the percentage and clicks on apply.		
		5-	The system updates the price on both interface and database.





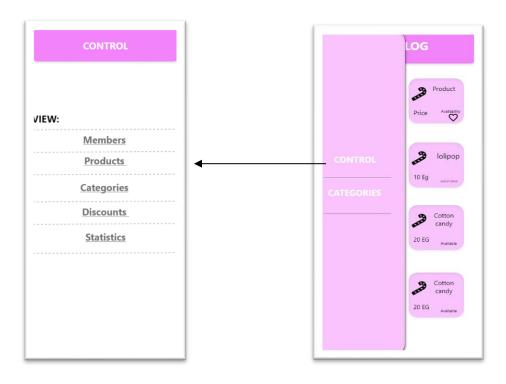
Software Requirements Specifications

• Exceptional Scenario #1

Actor Action	System Response
1- The admin clicks on add discount button.	
	2- The system displays a window saying that there is already a current discount.

• Exceptional Scenario #2

Actor Action	System Response
1- The admin adds the discount percentage.	
	2- The system displays that this percentage is exceeding the maximum percentage that can be applied.







Software Requirements Specifications

Element Label	Type/Length	Data Validation / Business Rule
Discount percentage	Integer <= 2 Digits	0 <integer <="100</td"></integer>





Software Requirements Specifications

User Story #15

User Story ID	US # 16
User Story Name	Add discount percentage to a category.
Actors	System admin
Description	As a system admin. I like to be able to apply a discount percentage to a specific category. So, I can make the software always up to date to all decisions taken by the Director of Ecommerce.
Per condition	There isn't a discount that is already present.
Post condition	Prices of all items in the category are updated.
Acceptance Criteria	Given I'm logged in as the system admin. When I open the catalogue, I can click on a button to view all categories and choose the category I want. Then I will click on add discount to apply it on the whole category.

Actor Action	System Response
 The admin clicks on the categories button at the top of the catalogue page. 	
	2- System displays a drop-down list for all categories.
3- The admin chooses the category he wants.	
	4- The system displays all items in the category and a button "add discount" of top of page.
5- The admin clicks on add discount and writes the percentage he wants and click on apply.	
	6- The system updates prices of all items in the catalogue on the interface and the system's database.





Software Requirements Specifications

• Exceptional Scenario #1

Actor Action	System Response
 The admin clicks on add discount button. 	
	2- The system displays a window saying that there is already a current discount.

• Exceptional Scenario #2

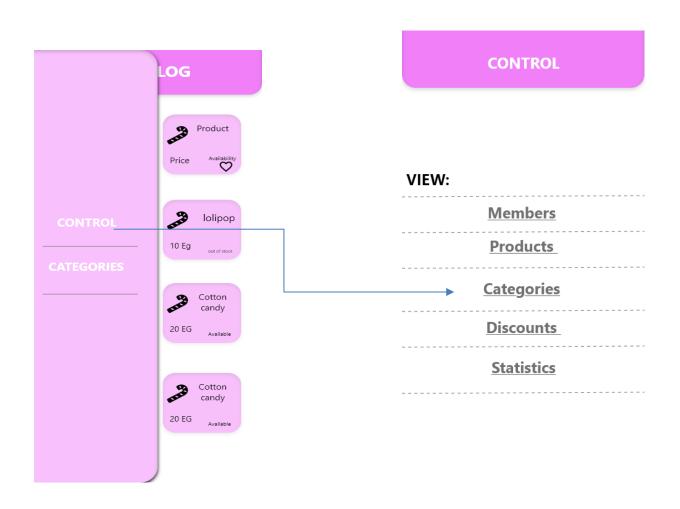
Actor Action	System Response
 The admin adds the discount percentage. 	
	2- The system displays that this percentage is exceeding the maximum percentage that can be applied.

Element Label	Type/Length	Data Validation / Business Rule
Discount percentage	Integer <= 2 Digits	0 <integer <="100</td"></integer>





Software Requirements Specifications







Software Requirements Specifications

User Story #16

User Story ID	US # 17
User Story Name	View orders
Actors	System admin
	As a system admin
Description	I like to be able to view the history of all orders made by the customers.
	So, I can have a list for all orders made in a specific day, week or month and the customer's important info for who made each order.
Per condition	The history of orders is up to date.
Post condition	The admin can conclude initial statistics about the project's sales.
Acceptance Criteria	Given I'm logged in as the system admin. When I view all orders made by the customers. Then I can search for orders for a specific item or specific user and view statistics about them.

Scenarios

Actor Action	System Response
 The admin clicks on more options button and click on view history. 	
	2- The system displays a menu where he can view history of a specific day, month year, order history for a specific customer or a specific item.
3- The admin chooses one of the options	
	4- The system displays all orders according to what was chosen and a field where their total number is written.





Software Requirements Specifications

Exceptional Scenario #1

Actor Action	System Response
 The admin clicks on view history button from more options. 	
	2- The system views no orders as the data is not reachable.3- The data is not up to date

Exceptional Scenario #2

Actor Action	System Response
1- The admin enters the customer's name, item's name, or specific date.	
	2- The system displays that there are no orders with this data.





Software Requirements Specifications

User Story #17

User Story ID	US # 18
User Story Name	Sets loyalty points
Actors	System admin
	As a system admin.
Description	I like to be able to set loyalty points for a customer.
	So, it is always updated when the customer rate of orders increases.
Per condition	The user is present in the database
Post condition	Database is updated.
	Given I'm logged in as the system admin.
Acceptance Criteria	When view all logged in customers,
	Then I can update a customer's loyalty points.

Scenarios

Actor Action	System Response
1- The admin opens the list of all logged in customers from more options.	
	2- System displays a list of users and a plus button with "loyalty points title" beside each one.
3- The admin enters the number.	
	4- The system updates list of customers on the interface and the system's database and log out this user.

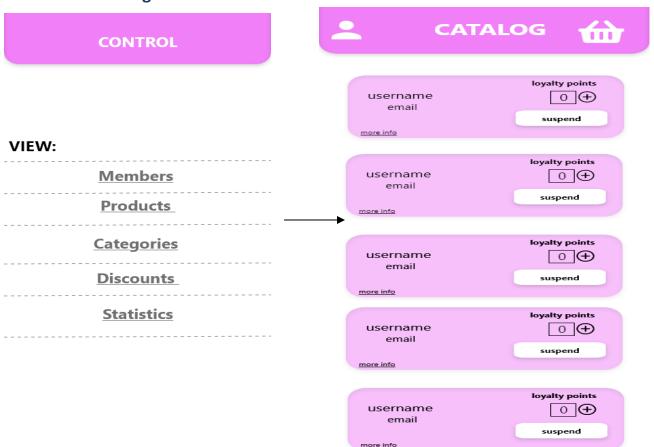




Software Requirements Specifications

Exceptional Scenario

Actor Action	System Response
 The admin adds loyalty points for a specific customer. 	
	2- The system displays window saying that this customer's order history isn't compatible with this number of loyalty points.







Software Requirements Specifications

Element Label	Type/Length	Data Validation / Business Rule
Loyalty points	Integer < 5 digits	Integer > 0 && Integer < 1000





Software Requirements Specifications

User Story #18

User Story ID	US # 19
User Story Name	Suspend a user
Actors	System admin
	As a system admin.
Description	I like to be able to suspend a user of the software.
	So, I can empty the database from users whose accounts exceeded
	the limit of being inactive.
Per condition	The user is present in the database
Post condition	Database is updated.
Acceptance Criteria	Given I'm logged in as the system admin.
	When view all logged in customers,
	Then suspend all old accounts.

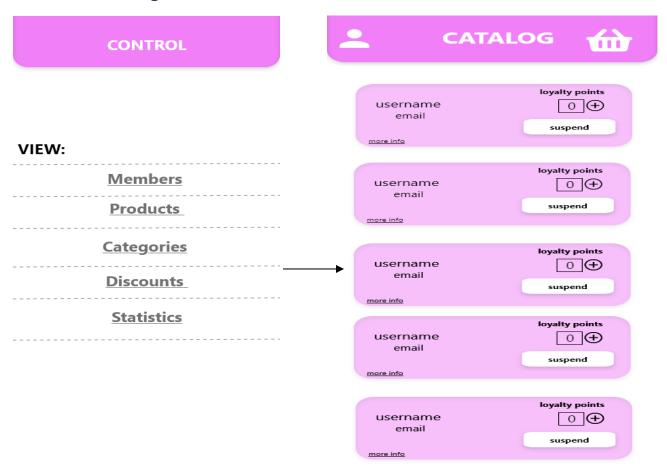
Scenarios

Actor Action	System Response
1- The admin opens the list of all logged in customers	
	2- System displays a list of users and a "suspend" button beside each one.
3- The admin clicks on suspend.	
	4- The system updates list of customers on the interface and the system's database and log out this user.





Software Requirements Specifications







Software Requirements Specifications

User Story #19

User Story ID	US # 20
User Story Name	View statistics
Actors	System admin
	As a system admin.
Description	I like to view system's statistics.
	So, I can provide data about how the store is doing.
Per condition	The user is present in the database
Post condition	Database is updated.
Acceptance Criteria	Given I'm logged in as the system admin.
	When I choose view sales statistics
	Then I can view a dashboard of how the store is doing.

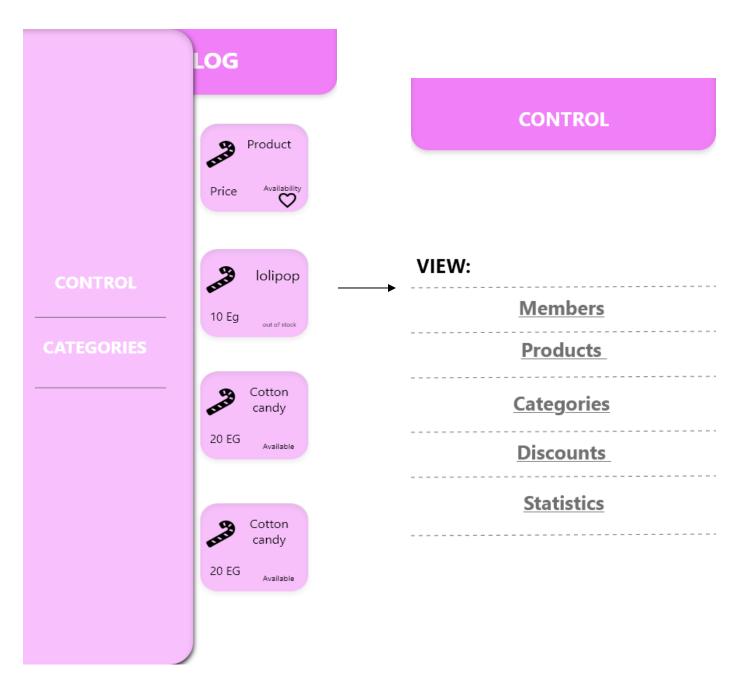
Scenarios

Actor Action	System Response
1- The admin clicks on view sales statistics after clicking the button for more options at the top of catalogue page.	
	2- System displays a dashboard for daily and monthly sales in general and sales statistics for the highest sold items in the store.





Software Requirements Specifications

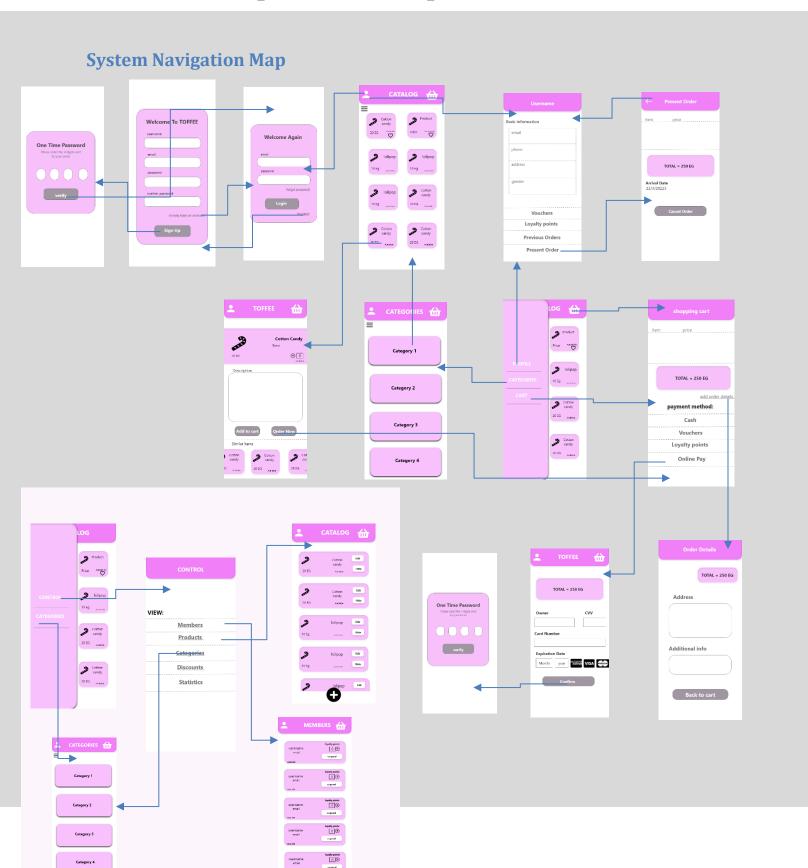


CS251: Phase 1 – Survivors

Project: <Toffee>



Software Requirements Specifications



CS251: Phase 1 – Survivors

Project: <Toffee>



Software Requirements Specifications

Tools

- Visual paradigm for use case model
- Adobe XD for system navigation map

Ownership Report

Student	Items he created
Rana Essam Ibrahim	System Navigation Map, Document purpose, Audience, Screen Design
Merna Islam Mohamed	Functional Requirements, Software purpose, definitions, abbreviations, System Scope
Nour Muhammad Abd El-Azim	Non-functional Requirements, Use case model