Cairo University Faculty of Computers and Artificial Intelligence



CS251

Intro. to Software Engineering

Project Name

Software Requirements Specifications

Version 1.0

Team Names and Emails and Phone of Team Leader

Month & Year





Software Requirements Specifications

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Software Requirements Specifications

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Document Purpose and Audience

- (1) SRS stands for Software Requirements Specification. It is a document that describes in detail the functional and non-functional requirements of a software system. The SRS is a critical document in software development as it outlines what the software should do and how it should behave.
 - (2) it can read by stakeholders like
 - 1. Business analysts
 - 2. Developers
 - 3. Customers and clients
 - 4. Project manager
- This document is about:
 - This document is about website and application to buy sweets like candy, chocolate, toffee, and others (**online store**).
- List of audience
 - 1. Product owner
 - 2. Customer
 - 3. Developer
 - 4. System admin

Introduction





Software Requirements Specifications

Software Purpose

Software purpose is a website and application to buy sweets like candy, chocolate, toffee, and others and this is an online store.

Software Scope

Toffee implements an online store to buy sweets from website and the software has features and has system admin to control showing or deleting items and prices.

Definitions, acronyms, and abbreviations

Term	Definition
E-commerce web site	An e-commerce website is a website that facilitates the buying and selling of goods or services online
Smart wallet	online service, or software program that allows one party to make electronic transactions with another party bartering digital currency units for goods and services.
OTP	One-time passwords are a form of strong authentication sent into email or to the phone to ensure that the phone number or the email is owned by the user
Shopping cart	is a piece of software that keeps the record of the items a buyer has picked up from the online store
Loose items	This is items that can sold by weight like kilo not by unit





Software Requirements Specifications

Vouchers	Shoppers can buy and gives it to someone as a gift to buy items from the store
Loyalty points scheme	This is points gives to customer when he buy products and the customer can buy items with this points and can pay for the order or part of it and every point is equal to 1EGP

Requirements

Functional Requirements

Req Name	Explanation of requirement
Home	System shows to the user a login/register screen
Login	If user select login the system shows to the user a box to put the username And the password
Register	Users can register by adding valid information like name, phone number, email, address, and password.
Catalog	 The site will offer a catalog and information about every item that customers can order. Item has two types: Unit items: these are items can buy by units up to fifty units of each item in one order. Loose items: This is items that can sold by weight and the buyer can buy any amount up to fifty kilos of an item in one order.





Software Requirements Specifications

Buying	Items are appeared to any user but if you want to buy you must register or login
Show item	User can choose any item and system will show the item in separate page in detailed and show: • Name • Category • Description • Image • Brand • price and a discount percentage (if any).
Shopping cart	If the user wants to buy it, choose this item and the item will add to shopping cart, After the user finished the shopping can check-out the items.
Gift voucher	Shoppers can also gift voucher has a unique code and can redeemed once when making an order to reduce the total price by the value of the voucher buy gift vouchers to give as a gift to someone
Place an order	Users can place an order by selecting the items they want and the quantity they want from each item. Then they check-out.
History	The user can view all history of orders and can re-order a previous order by clicking "re-order" button which makes the same exact order with the same exact conditions





Software Requirements Specifications

Loyalty points	When making an order, a buyer earns loyalty points according to the scheme decided by the admin.
Address	Upon making an order the user should specify the address which registered by it or add new address if the user buying a gift to someone
Payment	 The customer can choose to pay upon delivery or via payment methods like smart wallets: If he chooses upon delivery, they must enter a valid phone number. An OTP will send to the mobile number and the buyer must enter it to verify the phone number. If he chooses with smart wallet will pay money online Another way to the user to pay for an order: Use one gift voucher or more to pay for their order or part of it. Redeem by the loyalty points to pay for the order or part of it. Pay for the order or the remaining amount via payment methods like smart wallets. Pay for the order or the remaining amount with cash upon delivery.
Admin	A system admin:

CS251: Phase 1 - G.O.A.T

Project: Toffee



Software Requirements Specifications

Non Functional Requirements

Req Name	Explanation of requirement
Usability	The system should be easy to navigate and use for both customers and administrators, with clear and intuitive user interfaces.
Performance	The system should be able to manage an enormous number of concurrent users without significant slowdowns or crashes. Response times for common actions such as browsing, searching, and checking out should be fast.
Reliability	The system should be highly available and reliable, with a minimum of downtime or outages. The system should also be able to recover quickly from any failures that do occur.
Scalability	The system should be able to scale up or down to meet changing demand, whether due to seasonal spikes in traffic or other factors.
Compatibility	The system should be compatible with a wide range of devices, browsers, and platforms, including desktop and mobile devices.
Accessibility	The system should be designed to be accessible to people with disabilities, meeting WCAG 2.0 AA standards or higher.
Maintainability	The system should be easy to maintain and update, with well-documented code and clear separation of concerns between different system component

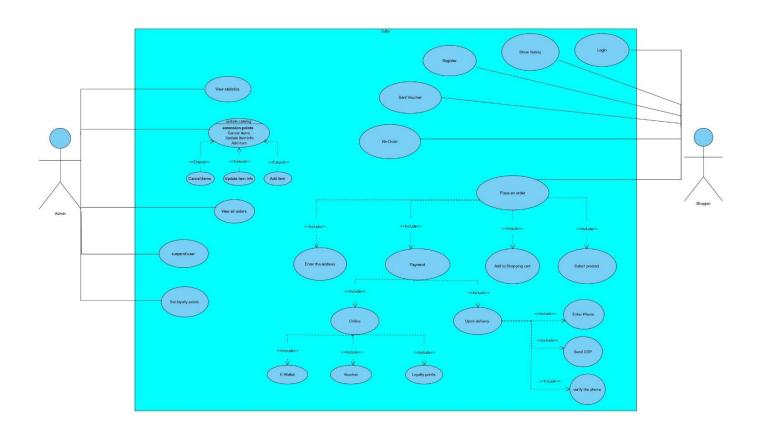




Software Requirements Specifications

System Models

Use Case Model



- **1. Admin:** is the person who control the system, he can do:
 - can update catalog with added items.
 - cancel items.
 - update item info
 - can view all orders.
 - set loyalty points scheme.
 - suspend user and view statistics.





Software Requirements Specifications

- **2. Shoppers:** User can shop or place orders from the site and he can do:
 - can select item and buy it.
 - Place an order.
 - Login / Register.
 - Show history.
 - Re-order for old product.
- 3. **Product Owner:** The product owner is the client you will serve and satisfy his or her needs with this project, he can do:
 - supports the business.
 - increases the profit.
 - give the customer a competitive advantage.





Software Requirements Specifications

Enriched User Stories

• User Story #1

User Story ID	US #1
User Story Name	Register
Actors	Shopper
	As a Shopper.
Description	I like to be able to sign up to buy sweets.
	So that I can sign in and access its services.
Pre condition	
Post condition	
	Given I'm shopper and I want to sign up
Acceptance Criteria	When I fill in the information fields with my authentication credentials and I click the Sign-up button
	Then I can sign in and the system save my information

Scenarios

Normal Scenario

Actor Action	System Response
1- User click on register button	
	2- System should show information page
	3- System display boxes to input sign up
	information
4- User enter the S/her information	
5- User click on submit button	
	6- System verifies the user information
	7- System saves user information in the database



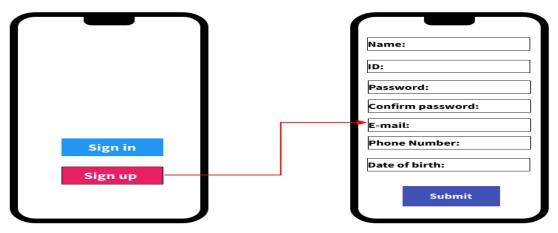


Software Requirements Specifications

Exceptional Scenario

Actor Action	System Response
1- User click on register button	
	2- System should show information page3- System display boxes to input sign up information
4- User enter the S/her information	
7- User fill the boxes	 5- empty box 6- System display message "Fill the empty boxes" 8- System find errors in information 9- system display message "enter valid information"
8- User fill boxes again	
	6- System verifies the user information7- System saves user information in the database

Screen Design







Software Requirements Specifications

• Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Name	Text < 50 Characters	Structured text
Email	Text < 50 Characters	Structured Email
Password	Alphanumeric < 16 characters	Password confirmation and must include an uppercase letter, numbers and/or special characters
Phone	Integer = 11	integer > 0 and confirm via text message
Address	Text < 100 Characters	Structured text





Software Requirements Specifications

User Story #2

User Story ID	US #2
User Story Name	Login
Actors	Shopper
	As a shopper
Description	I like to be able to Login.
	So, I can buy sweets
Pre condition	That the user has registered before
Post condition	
	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

Scenarios

Normal scenario

Actor Action	System Response
1- User click on login button	
	2- System should show login page3- System display boxes of username and email
4- User enter the S/her information	
5- User click on login button	
	6- System verifies the user information 7- System allow the user to login



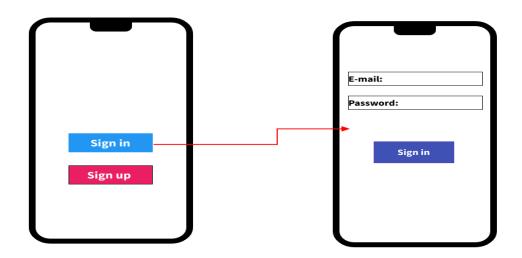


Software Requirements Specifications

Exceptional Scenario

Actor Action	System Response
1- User click on Login button	
	2- System should show login page3- System display boxes of username and email
4- User enter the S/her information	
	5- empty box 6- System display message "Fill the empty boxes"
7- User fill the boxes	8- System find errors in information 9- system display message "enter valid information"
8- User fill boxes again	
	6- System verifies the user information 7- System allow the user to login

Screen design







Software Requirements Specifications

• Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Email	Text < 50 Characters	Structured Email
Password	Alphanumeric < 16	Password confirmation and must include an uppercase letter, numbers and/or special characters

User Story #3

User Story ID	US #3
User Story Name	Show product
Actors	Shopper
	As a shopper
Description	I like to be able to Show product.
	So, I can buy sweets
Pre condition	That the user has Logged in before
Post condition	
	Given I'm a logged-in and I want to Show product.
Acceptance Criteria	When I go to the catalog, I can select any order.
	Then I can add it to shopping cart and place it

Scenarios

Normal scenario

Actor Action	System Response
1- User click on product	
	2- System should show product page
	3- System display the product info





Software Requirements Specifications

4- User select the amount that less than or	
equal 50 kilo 50 unit	
5- User click on add to cart	
	6- System display message "The order has
	added"

Exceptional Scenario

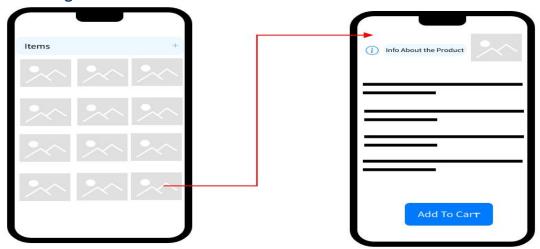
Actor Action	System Response
1- User click on product	
	2- System should show product page3- System display the product info
4- User select the amount that large than 50 kilo or 50 unit	
5- User click on add to cart	
	6- System display message "The amount large than 50 kilo or 50 unit" 7- system will return to product page
8- User select the amount that less than or equal 50 kilo 50 unit	
9- User click on add to cart	
	10- System display message "The order is out of stock."11- system will return to product page
12- User select other product	
13- User click on add to cart	
	14- System display message "The order has added"





Software Requirements Specifications

Screen design



• Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Product names	Text < 10 Characters	Structured Email
Product pictures	lmage	Structured image





Software Requirements Specifications

• User Story #4

User Story ID	US #4	
User Story Name	Place order	
Actors	Shopper	
	As a shopper	
Description	I like to be able to Place order	
	So I can buy sweets	
Pre condition	That the user has Logged in before	
Post condition		
	Given I'm a logged-in and I want to Place order	
Acceptance Criteria	When I go to the catalog, I can Place any order	
	Then I can add it to shopping cart and place it	

Scenarios

Normal scenario

Actor Action	System Response
1- User click on add to cart button	
	2- System should show message "Added to cart"
3- User return to add another order	
4- User click on cart	
	5- System display cart page
6- User click on check-out button	



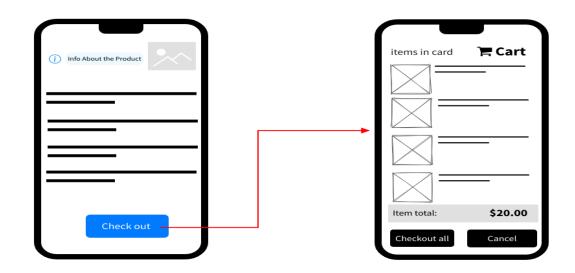


Software Requirements Specifications

Exceptional Scenario

No exceptional scenario for this case.

Screen design



Data Dictionary:

No Data Dictionary for this case.





Software Requirements Specifications

• User Story #5

User Story ID	US #5	
User Story Name	Cancel Order	
Actors	Shopper	
	As a shopper	
Description	I like to be able to cancel orders.	
	So, I can cancel mt orders	
Pre condition	That the user has Logged in before	
Post condition		
	Given I'm a logged-in and I want to cancel order.	
Acceptance Criteria	When I go to the catalog, I can cancel any order.	
	Then I can add it to shopping cart and place it	

Scenarios

Normal scenario

Actor Action	System Response
1- User click on add to cart button	
	2- System should show message "Added to cart"
3- User return to add another order	
4- User click on cart	
	5- System display cart page
6- User click on check-out button	



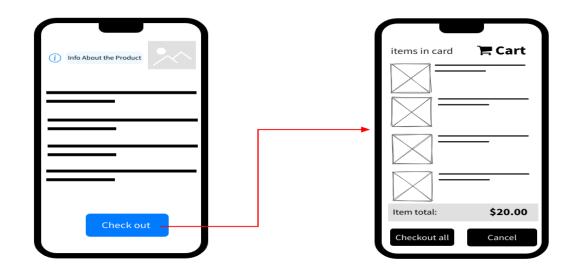


Software Requirements Specifications

Exceptional Scenario

No exceptional scenario for this case.

Screen design



Data Dictionary:

No Data Dictionary for this case.





Software Requirements Specifications

• User Story #6

User Story ID	US #6
User Story Name	payment
Actors	Shopper
	As a Shopper.
Description	I like to be able to payment.
	So that I can order sweets.
Pre condition	
Post condition	
	Given I'm shopper and I want to payment
Acceptance Criteria	When I place order, I'm going to payment page to choose address and select payment method Then I can complete my order

Scenarios

Normal Scenario

Actor Action	System Response
1- User click on place order	
	2- System should show page for choose the address3- System display text box to enter the address
4- User enter to confirm address	
	5- System verifies the user information
6-user enter on payment button	
	7- system show to the user the methods of payment
8-user choose e-wallet or on delivery or loyalty points or voucher	
	9-system show to the user boxes to enter e-wallet info





Software Requirements Specifications

10-showing confirmation payment

Exceptional Scenario

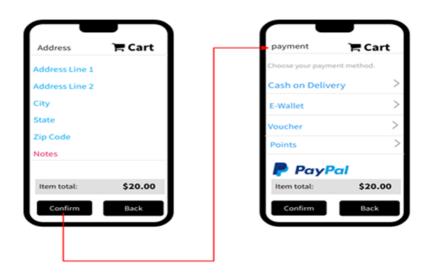
Actor Action	System Response
1- User click on place order	
	2- System should show page for choose the address3- System display text box to enter the address
4- User enter to confirm address	
	5- system verifies the user information
6-user enter on payment button	7- system show to the user the methods of payment
8-user choose e-wallet or on delivery	
	9-system show to the user boxes to enter e-wallet info 10-system showing erroring in data 11-appear message to the user to enter correctness data
12-user enter correctness data	
	13-system confirm payment





Software Requirements Specifications

• Screen Design



• Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
address	Text < 50 Characters	Structured text
e-wallet number	Integer = 12	Send OTB confirmation to the user
Expired date	Integer = 4	Date expired is correct
Phone	Integer = 11	integer > 0 and confirm via text message
CVV	Integer = 3	CVV is correct





Software Requirements Specifications

User Story #7

User Story ID	US #7
User Story Name	Show history
Actors	Shopper
	As a Shopper.
Description	I like to be able to Show history.
	So that I can see my history.
Pre condition	
Post condition	
	Given I'm shopper and I want to Show history
Acceptance Criteria	When I'm going to home page, I choose show history
	Then I can show my history of buying

Scenarios

Normal Scenario

Actor Action	System Response
1- User click on show history button	
	2- System should show page to the user
	that has all history of buying

Exceptional Scenario

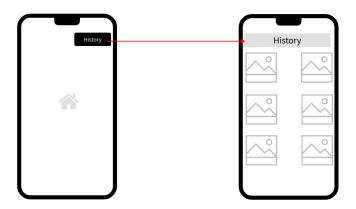
No exceptional scenario for this case.





Software Requirements Specifications

Screen Design



• Data Dictionary:

No Data Dictionary for this case.





Software Requirements Specifications

User Story #8

User Story ID	US #8
User Story Name	Buy and Send voucher
Actors	Shopper
	As a Shopper.
Description	I like to be able to buy voucher to send it.
	So that I can send it to my friend.
Pre condition	
Post condition	
	Given I'm shopper and I want to buy voucher to send it to my
	friend.
Acceptance Criteria	When I am shopping in website I will buy it
	Then I can send it to my friend

Scenarios

Normal Scenario

Actor Action	System Response
1- User click on button shopping voucher	
	2- System should show page and the vouchers and their prices
3- User choose suitable voucher	
4-user enter on payment button	
	5- system show to the user the methods of payment
6-user choose e-wallet to pay for voucher	
	7-system show to the user boxes to enter e-wallet info 8-showing confirmation payment
9-user choose send voucher button	





Software Requirements Specifications

10-system show to the user boxes to enter name and email address of his/her friend 11-confirm sending

Exceptional Scenario

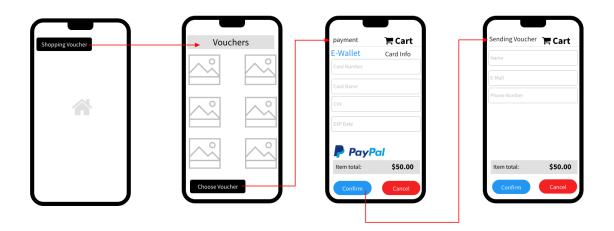
Actor Action	System Response
1- User click on button shopping voucher	
	2- System should show page and the vouchers and their prices
3- User choose suitable voucher	
4-user enter on payment button	
	5- system show to the user the methods of payment
6-user choose e-wallet	
	7-system show to the user boxes to enter e-wallet info 8-system showing erroring in data 9-appear message to the user to enter correctness data
10-user enter correctness data	
	11-system confirm payment
12-user choose send voucher button	
	13-system show to the user boxes to enter name and email address of his/her friend 14-system showing erroring in data
15-user enter correctness data	
	16-confirm sending voucher





Software Requirements Specifications

• Screen Design



Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
address	Text < 50 Characters	Structured text
e-wallet number	Integer = 12	Send OTB confirmation to the user
Expired date	Integer = 4	Date expired is correct
Phone	Integer = 11	integer > 0 and confirm via text message
CVV	Integer = 3	CVV is correct
Email address	Text < 50 Characters	Structured text
Name	Text < 50 Characters	Structured text





Software Requirements Specifications

User Story #9

User Story ID	US #9
User Story Name	Reorder
Actors	Shopper
	As a Shopper.
Description	I like to be able to reorder.
	So that I can select previous order.
Pre condition	
Post condition	
	Given I'm shopper I want to reorder
Acceptance Criteria	When I go to website
	Then I can choose from the previous orders

Scenarios

Normal Scenario

Actor Action	System Response
1- User click on button show history	
	2- System should show page of orders that user ordered before
3- User choose any order he/she want	
	4- system show the details of order and the products that have
6-user click on confirm reorder	
	7-system show to the user that he/she is confirming reordering



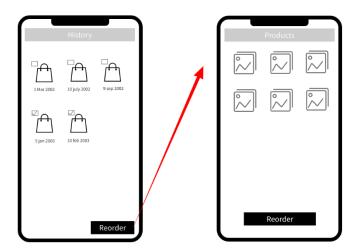


Software Requirements Specifications

Exceptional Scenario

Actor Action	System Response
1- User click on button show history	
	2- System should show page of orders that user ordered before
3- User choose any order he/she want	
	4- system show the details of order and the products that have
5-the user click on confirm reordering	
	6-error in order and the system show message that "this product is out stock, and you cannot reordering" 7-system back to history

• Screen Design



• Data Dictionary:

No Data Dictionary for this case.





Software Requirements Specifications

User Story #10

User Story ID	US #10
User Story Name	View Statistics
Actors	Admin
	As a Admin.
Description	l like to View Statistics of the products.
	So that I can view my sales progress.
Pre condition	Sign in as Admin
Post condition	
	Given I'm Admin and
Acceptance Criteria	When I want to View Statistics of the products.
	Then I can Improve my sales to better.

Scenarios

Normal Scenario

Actor Action	System Response
1- Admin click on button View Statistics	
	2- System should show page of Statistics and graph it.
	3- Admin can view daily and monthly sales

Exceptional Scenario

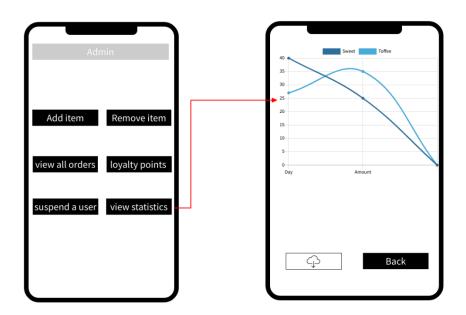
No exceptional scenario for this case.





Software Requirements Specifications

• Screen Design



Data Dictionary:

No Data Dictionary scenario for this case.





Software Requirements Specifications

User Story #11

User Story ID	US #11
User Story Name	Edit Catalog
Actors	Admin
	As Admin.
Description	I like to update catalog with new items, cancel items or update item info. An item has a name, category, description, image, brand, price, and a discount percentage (if any).
	So that I can Edit Catalog.
Pre condition	Sign in as Admin
Post condition	
	Given I'm Admin.
Acceptance Criteria	When I want to Edit Catalog
	Then I can update catalog with new items.

Scenarios

Normal Scenario

Actor Action	System Response
1- Admin click on button Edit Catalog	
	2- System should show page of 3 button add items, remove items and Update items.
3- If Admin choose add items	
	4- system go to the next page5- system show the boxes of the item information.
6- Admin fill the boxes and click on Add	
	7- system show message "The item is added"
8- If Admin choose remove items	
	9- system go to the next page 10- system show the box of the item name





Software Requirements Specifications

11- Admin enter the name of the product	
	12- system show the product page
13- Admin click on remove	
	14- system show message "The item is removed"
15- if Admin choose Update items	
	16- system go to the next page17- system show the box of the item name
18- Admin enter the name of product	
	19- system go to the next page20- system show the product information
21- Admin update the information and click on save	
	22- system show message "The item is updated"

Exceptional Scenario

Actor Action	System Response
1- Admin click on button Edit Catalog	
	2- System should show page of 3 button add items, remove items and Update items.
3- If Admin choose add items	
	4- system go to the next page5- system show the boxes of the item information.
6- Admin fill the boxes and click on Add	
	7- system show message "The item is added"
8- If Admin choose remove items	
	9- system go to the next page 10- system show the box of the item name





Software Requirements Specifications

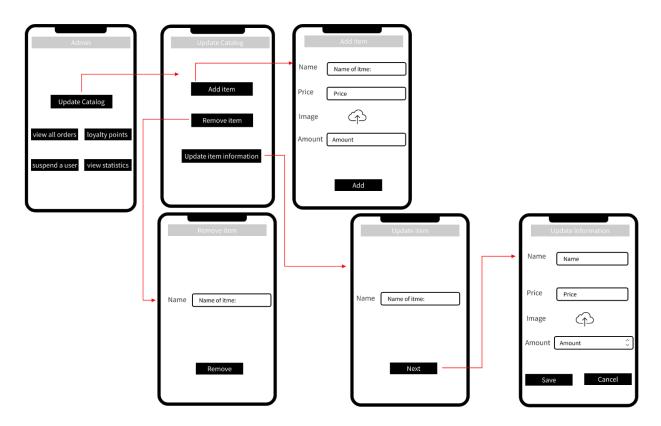
11- Admin enter the name of the product	
	12- system show message "the product not found"
13- Admin enter the name of the product correctly	
	12- system show the product page
13- Admin click on remove	
	14- system show message "The item is removed"
15- if Admin choose Update items	
	16- system go to the next page17- system show the box of the item name
18- Admin enter the name of product	
	19- system show message "the product not found"
20- Admin enter the name of the product correctly	
	21- system go to the next page22- system show the product information
23- Admin update the information and click on save	
	24- system show message "The item is updated"





Software Requirements Specifications

• Screen Design



Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Item Name	Text < 50 Characters	Structured text
Item category	Text < 50 Characters	Structured text
Image	lmage	Structured image
Description	Text < 150 Characters	Structured text
Trademark	Trademark	Structured Trademark
Item price	Integer	Integer > 0 and in EGP
Discount	Percentage	Integer > 0 in percentage





Software Requirements Specifications

User Story #12

User Story ID	US #12
User Story Name	Suspend user
Actors	admin
	As a admin.
Description	I like to be able to suspend user.
	So that I can ban users.
Pre condition	
Post condition	
	Given I'm an admin and I want to suspend or ban users.
Acceptance Criteria	When I am an admin, I can suspend users.
	Then I can ban users from the application

Scenarios

Normal Scenario

Actor Action	System Response
1- Admin click on button Suspend user	
	2- System should show page and the box to enter the name of user
3- Admin input the name of user	
	4- system show to the admin the information of the user
6-Admin click the suspend button	
	7-system show to the admin message "The user has suspended." 8- system will return the main page



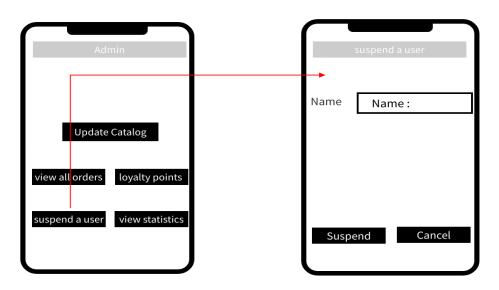


Software Requirements Specifications

Exceptional Scenario

Actor Action	System Response
1- Admin click on button Suspend user	
	2- System should show page and the box to enter the name of user
3- Admin input the name of user	
	4- system didn't find the username 5- system show to the admin the message "The user not found"
6- Admin input the name of user again	
	7- system show to the admin the information of the user
	8- system show to the admin message "The user has suspended." 9- system will return the main page

Screen Design







Software Requirements Specifications

• Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Name of the user	Text < 50 Characters	Structured text

User Story #13

User Story ID	US #13
User Story Name	Set loyalty points
Actors	admin
	As an admin.
Description	I like to be able to set loyalty points.
	So that I allow to users to redeem by points.
Pre condition	
Post condition	
	Given I'm an admin and I want to set loyalty points.
Acceptance Criteria	When I am an admin, I will set loyalty points.
	Then I allowed to users to redeem by these points.

Scenarios

Normal Scenario

Actor Action	System Response
1- Admin click on button loyalty points	
	2- System should show a box to the user to enter loyalty points
3-admin enter loyalty points	
	4-system confirm setting



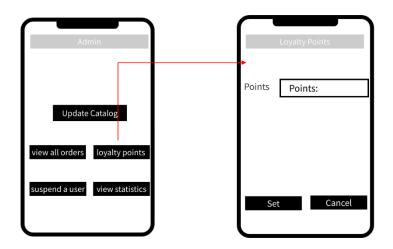


Software Requirements Specifications

Exceptional Scenario

No exceptional scenario for this case.

Screen Design



Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Loyalty points	integer < 10 Characters	Integer>0

User Story #14

User Story ID	US #14
User Story Name	Add new admin
Actors	admin
	As an admin.
Description	I like to be able to set add new admin.
	So that I can add new admin.





Software Requirements Specifications

Pre condition	
Post condition	
	Given I'm an admin and I want to add admin.
Acceptance Criteria	When I am an admin, I can add admin.
	Then I added new admin.

Scenarios

Normal Scenario

Actor Action	System Response
1- Admin click on button add admin	
	2- System should show a box to the user to add admin information
3-admin enter the information of the new admin	
4- admin click on button add	
	5-system display message "The admin is added." 6- system return the main page.

Exceptional Scenario

Actor Action	System Response
1- Admin click on button add admin	
	2- System should show a box to the user to
	add admin information
3-admin enter the information of the new	
admin, but the email is incorrect	
4- admin click on button add	
	5-system display message "The email is
	incorrect."

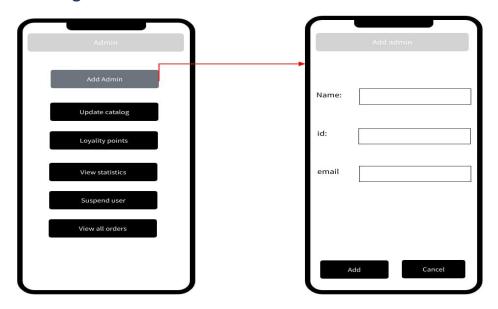




Software Requirements Specifications

6-admin enter the information of the new	
admin, but correctly	
7- admin click on button add	
	8-system display message "The admin is
	added."
	9- system return the main page.

• Screen Design



• Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Name	Text	Structured text
ID	0 digits < Integer < 8 digits	Integer
Email	Text	Structured email





Software Requirements Specifications

User Story #14

User Story ID	US #14
User Story Name	View all orders
Actors	admin
	As an admin.
Description	I like to be able to view all orders.
	So that I can view all orders.
Pre condition	
Post condition	
	Given I'm an admin and I want to view all orders.
Acceptance Criteria	When I am an admin, I can view all orders.
	Then I can see the orders.

Scenarios

Normal Scenario

Actor Action	System Response
1- Admin click on button view all orders	
	2- System should show a new page
	3- system display all orders and its date

S

Exceptional Scenario

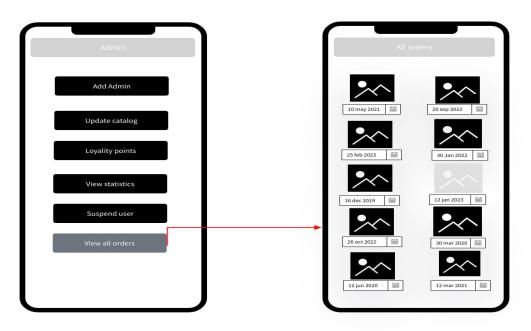
No exceptional scenario for this case.





Software Requirements Specifications

• Screen Design



Data Dictionary:

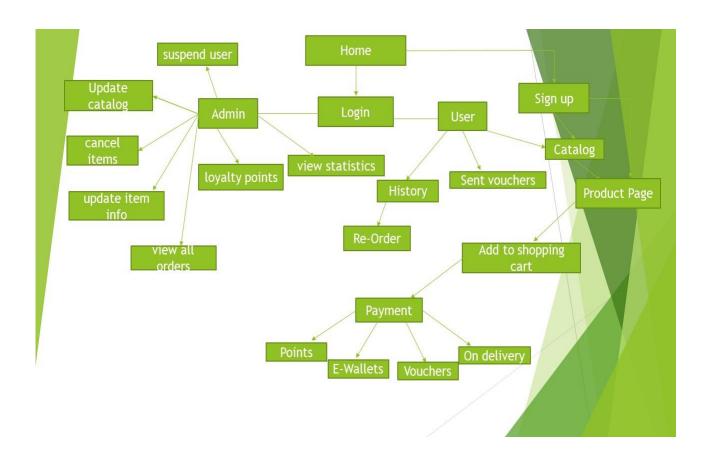
No Data dictionary scenario for this case.





Software Requirements Specifications

System Navigation Map



Tools

- Visual paradigm
- ArgoUML
- Lucid
- Mockflow
- Power Point





Software Requirements Specifications

Ownership Report

Student	Items he created
Mohamed Amir Mohamed	Admin use case.
	Performance and Usability Non-Functional
	Requirements.
	User Stories #1 to #4.
Badr Mohamed Ragab	Half of shopper use case.
	Reliability, Scalability and Compatibility Non-
	Functional Requirements.
	User Stories #5 to #10.
Omar Rabea Shaban	The other Half of shopper use case.
	Accessibility and Maintainability Non-Functional
	Requirements.
	User Stories #11 to #14.