Cairo University

Faculty of Computers and Artificial Intelligence

CS251

Intro to Software Engineering

A'Sawary

Toffee

Software Requirements Specifications

Version 2.1

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CS251: Phase 1 – A'Sawary
Project: Toffee

Software Requirements Specifications

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Document Purpose and Audience

This is a software requirements document. It is intended to clarify the requirements of the customer to make sure that they are on the same page with the vendor's vision. It shows a documented version of what the customer needs the app to do.

This document is targeting both the stakeholders to keep them on track, and the technical team on the other hand to deliver a clear idea on the system to be built.

Introduction

Software Purpose

Toffee Software Application is an e-commerce app that will help the business grow by providing a new way of customer interaction, through the Web.

Software Scope

Toffee Application is built to help customers of Toffee to view and shop Toffee's products online. Also, facilitating administration and item management by letting admins manage orders, users and item catalog.

Definitions, acronyms, and abbreviations

- **OTP: One Time Password :** A 4 to 8-letter code that is used as a tool for authenticating users and payments, code is sent to stakeholder's (mostly user) sim card or phone or any means of communication that we are almost certain of his ownership of it then it is entered in the website/app to authenticate user.
- **E-Wallet :** Kind of a digital bank, used for easy transfer of money, services like vodafone cash, etisalat cash and so on can give you a digital balance where you deposit money and spend it mostly online.
- **Fawry :** A payment service that you can use to pay your bills or for online payments, Used in Egypt.
- **Loose Item :** Item that is sold by weight instead of packs.
- **EGP :** Egyptian Pound, Official currency of Egypt.

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- **24/7 :** 24 Hours, 7 days per week, usually means up all time.

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Requirements

Functional Requirements

ID	Requirement
FR01	**Title:** Item Catalog features **Description:** System should have a catalog to show items to the user, the catalog provides: ● Search items by: 　○ name 　○ brand ● Filter items by categories ● Show all items. Browsing the catalog does not require the user to be logged in with an account.
FR02	**Title:** Items **Description:** Items in the system should have: ● name ● category ● description ● image ● brand ● price ● unit type, which could be: 　○ sealed (by unit) 　○ loose (by Kg) ● discount amount (if any), 　discount could be applied to items as follows: 　○ by category 　○ by item 　○ all items. ● status: (on sale - out of stock - not on sale)

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FR03	**Title:** Item Availability Management
	Description: The system should keep track of the quantity available of each item and the status of the item, which is managed by administrators.
	An admin could specify the following for an item:
	● not to be displayed in the catalog
	● keep in catalog, but mark unavailable
	○ out of stock (which shows the item shaded out)
	Upon specifying the desired quantity, the system should not allow the user to specify more than the available quantity(specified by admin). If so, the system should show a disclaimer to the user, providing him with the available quantity of this specific item.
FR04	**Title:** User Account
	Description: User should be able to create and log in to an account, which holds the following information:
	● user name
	● valid email
	● password, (secure)
	● Address.
	● status (active - suspended)
	When registering a new account, the system must send an OTP to the specified email to confirm registration. OTP must be used for the first time to log in.
	Upon forgetting the password, users can specify `forgot password`. Then an OTP should be sent to their email address automatically. OTP is used only once, then after login, the system should ask for a new password.
FR05	**Title:** Checkout procedure
	Description: After filling in their shopping-cart, a user can choose to proceed to checkout. Checking out involves the following:
	● the system asks the user to specify a shipping address (choose from):
	○ use account address
	○ specify another address

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	● the system asks the user if he/she wants to redeem:
	  ○ voucher (choose from your vouchers, if any)
	  ○ loyalty points (specify amount of points to redeem)
	If a voucher is redeemed, its value is deducted from the total price of the order. If the value redeemed is greater than the total price of the order, a new voucher with the difference should be added to the user's account. Multiple vouchers could be redeemed in one order.
	
	● the system asks the user to specify the payment method:
	  ○ E-Wallet
	  ○ on delivery (adds fees to the total price of the order)
	
	After, the shipping cost is added to the total, and the user is allowed to specify `confirm order`. (shipping cost is 50 EGP for all orders).

FR06	**Title:** Payment methods
	Description: The system should offer two payment methods:
	● On delivery:
	     Upon choosing to pay on delivery, the system should ask for a valid phone number, and send an OTP to it to verify the phone number. If the total price of the order exceeds 2000 EGP, then payment on delivery is not permitted.
	
	● E-Wallet:
	     Upon choosing to pay with an E-Wallet, either the user specify an E-Wallet number, or choose to get a payment code. The system should generate a payment code available for 24h. When paid, the order is confirmed.

FR07	**Title:** Shopper / Buyer / Customer / Loggined User Actions. **Description:** The Customer, Shopper, Buyer, or Logged-in User is the same person which is the one who pays for the products, S/he can: ● View the catalog but to buy s/he must register and login. ● View all items in the catalog, items in a specific category, or search for an item by name or by brand. ● Shop among all available items in the catalog and can select the items to add

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	it to the shopping cart, after finishing shopping he must go to check out.
	
	● Choose up to 50 units of each item in one order, or up to 10 kilos in one order, depending on the type of the goods.
	
	● Buy gift vouchers to give as a gift to someone.
	   ○ A gift voucher has a unique code and can be redeemed once when making an order to reduce the total price by the value of the voucher.
	
	● View his/her order history, and have the ability of re-order a previous order by clicking the "reorder" button which makes:
	   ○ the same exact order with the same conditions.
	   ○ quantity, types, ..etc
	
	● When making an order, earn loyalty points according to the scheme decided by the admin.

FR08	**Title:** Order Definition.
	Description: This is the main data of the order that should be stored.
	
	● The customer Order is defined as follows:
	   ○ Total Price of Order.
	   ○ Date of checkout.
	   ○ Cart.
	   ○ Address.
	   ○ Loyalty Points Added because of order.
	   ○ Payment method & payment data.
	      ■ Vouchers.
	      ■ E-Wallet.
	      ■ Cash.
	      ■ Loyalty points.
	         ● A loyalty point is equal to 1 EGP

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FR09	**Title:** Address Definition.
	Description: This is the main data of the address that should be stored.
	• The customer address is defined as follows:
	○ Governorate.
	○ District.
	○ Street.
	○ Building info.
	■ Number.
	■ Floor.
	■ Flat.
	○ Landmark.
FR10	**Title:** Admin / Access
	Description: This Requirement describes Admin Access and interactions with the system
	• Admin should log-in using special credentials given to them but no sign-up mechanism
	• There are 2 types of admins
	○ Owner, does all that an admin does with the power to assign other accounts to be admins and also the power to remove admin privileges from accounts except for themselves.
	○ A general admin
	• A system admin can update the catalog with new items, or update item info
	• A system admin can set the quantity of a given item
	• Admin Can Cancel item Availability From catalog
	○ If out of stock the item is still displayed but with a note that says it's out of stock
	○ if for any other reason, the item won't be visible in the catalog at all
	• Admin can edit schema of loyalty points
	• Admin can view all orders, set loyalty points scheme and suspend a user from logging-In.
	○ Loyalty point scheme is basically a percentage of the total of every order for all users.

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	- Admin can set a discount amount for: - one item - all item - category - Ban / Suspension - Admin can ban any user - Admin can un-ban any banned user - A ban / suspension is signing-out the banned user if they are already banned - Banned users cannot log-in - A banned user shall contact the owner / admin using the contact us page
FR11	**Title:** Admin Statistics **Description:** This specifies the statistics that should be given to the admin - Sales - Over a time period - Day - Month 3 Months - Year - Should be represented in terms of: - Revenue - Expenses - Total amount of profit made - Total amount of sold items - Most Popular Items - The most selling items in the following periods - Day - Month 3 Months - Year - Conversion rate - By that we mean the percentage of visitors who make a purchase - Average order value

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FR12	Title: Contact Us page Description: This page allows the user to contact the owners ● Should display ○ Facebook Page's Link ○ Support Phone Number

Non Functional Requirements

Title	Description
Performance	● Response Time ○ Must not be more than one second to fetch or reload any page
Scalability	● Resource Usage ○ The system must be scalable up to 1000 simultaneous user
Maintainability	●
Reliability & Availability	● Reliability ○ Must work 99% of the time meaning that 80H of downtime is ok per year ○ A Failure is defined as ■ system being down for more than 5 minutes ● Recovery from failure ○ System should be able to revert every order that wasn't successfully confirmed and paid for ● Availability ○ The system should be available 24/7 with one hour of maintenance every month

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Portability & Compatibility	● The system must adapt a layered architecture: ○ Front-end Application ○ Back-end Application ○ Database server ● System supports Web ● System supports mobile ○ Android ○ IOS ● System provides a separate Web-app for Administrators
Security	● All OTPs must be used within 30 minutes. Once either 30 minutes pass or the OTP is used, the OTP becomes invalid. ● Account passwords for both Administrators and Customers must follow Microsoft Secure Password Guidelines. ● Fawary code has a maximum 24 hours until the code expires and the order is canceled.
Usability	● 20% measured in terms of lines of code must be designed generically so that it can be reused

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System Models

Use Case Model (Customer)
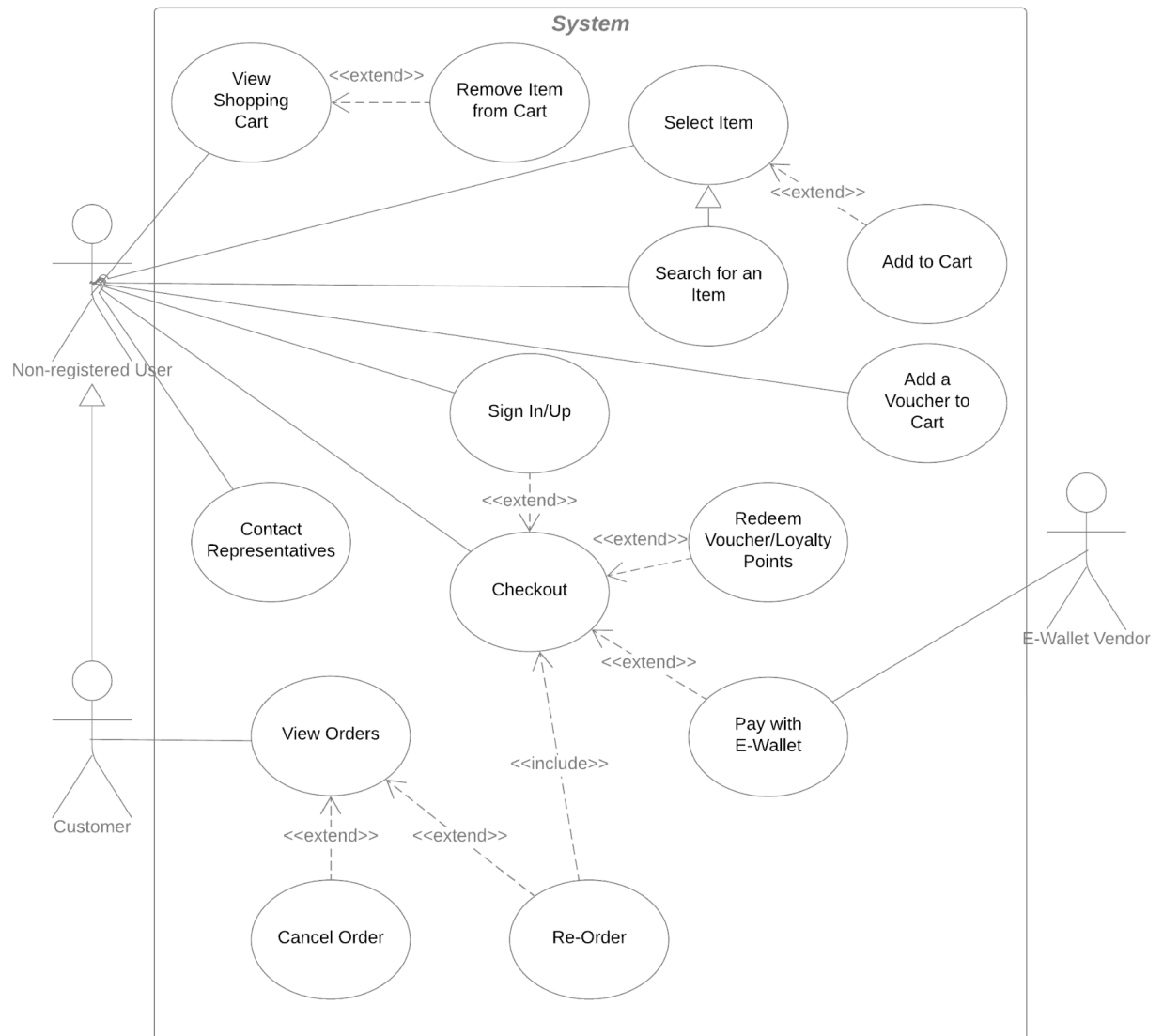
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Use Case Model (Administrator)
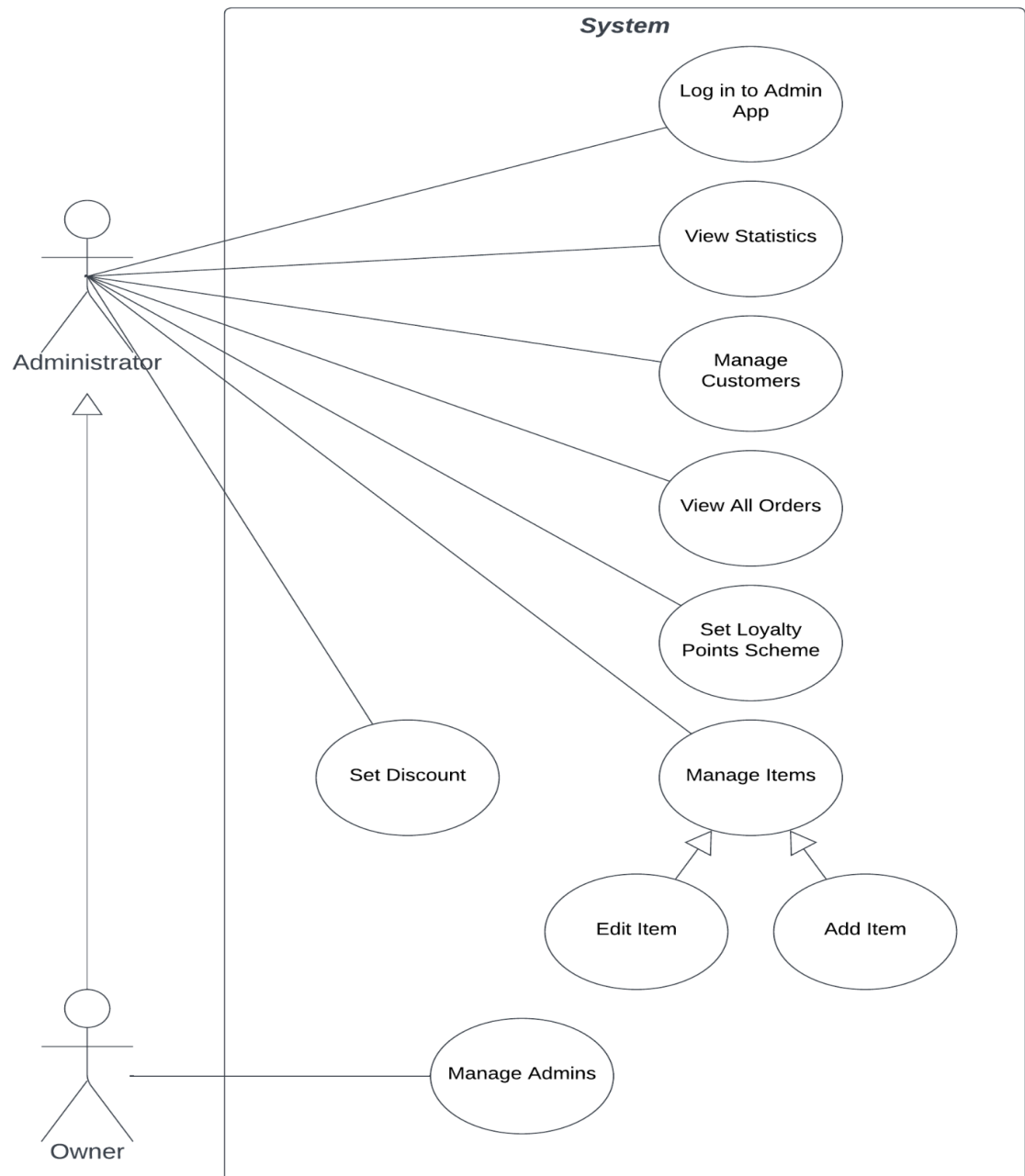
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User Stories

User Story #01

User Story ID	US #01
User Story Name	Add/Remove an admin from the system
Actors	Owner
Description	As an owner, I want to be able to add or remove admins from the system. So that they can log in with their credentials to perform their tasks.
Preconditions	User logged in to the admin app with Owner credentials.
Postcondition	Admin is added/removed from the system.
Acceptance Criteria	Given that I am logged in with Owner credentials. I can navigate to the "Manage Administrators" panel, then I can do one of the following: - specify "Add new Admin", then I am provided with new generated credentials for a new admin. - choose an existing admin to remove him, and he gets removed, and his credentials are no longer valid.

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Scenarios:

- **Normal Scenario #1 (Add a new admin)**

Actor Action	System Response
1- Navigate to the "Manage Administrators" panel.	2- Show the "Manage Administrators" panel. "Manage Administrators" shows: - "Add new Admin" Button. - List of current admins, with a button to remove admin next to each admin.
3- Specify "Add new Admin".	4- Show message: "A new Admin was added. username: <generated username> password: <generated password>".

- **Normal Scenario #2 (Remove an admin)**

Actor Action	System Response
1- Navigate to the "Manage Administrators" panel.	2- Show the "Manage Administrators" panel. "Manage Administrators" shows: - "Add new Admin" Button. - List of current admins, with a button to remove admin next to each admin.
3- Specify "Remove" for one of the admins from the list.	4- Show message: "Are you sure you want to remove this admin?" `Yes`, `No.

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5- Specify `Yes`.	6- Show message: "Admin was removed and can no longer log in to the system."

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User Story #02

User Story ID	US #02
User Story Name	Register
Actors	General User
Description	As a general user, I want to be able to open the system, and register to it.
Preconditions	not have an account in the system.
Postcondition	have the ability to login and use the system with my account.
Acceptance Criteria	Given that I do not have an account in the system, I open the system then the "Register" and "Login" button appeare. - I'll choose the register button. - The registration form appears to be filled. - After filling the form I confirm my inputs. - After doing the confirmation, I'll have an account in the system. - Now I can do viewing, ordering, view order history, and search for an item.

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Scenarios:

- **Normal Scenario #1 (Registration)**

Actor Action	System Response
1- Open the system application or the website.	2- Show the main Page, The main Page shows: - "Register" Button. - "Login" Button.
3- Specify "Register".	4- Show the form for the registration process.
5- Fill the form with the information needed and send it.	6- Check the Validation of the data. - if the data is correct, then send an OTP to the email specified in the form.
7- After receiving the OTP, I must enter the OTP within 30 minutes in the confirmation form.	8- if the OTP is correct, then create the account for the user and open the system with his account.

- **Exceptional Scenario #1**

Actor Action	System Response
5- Fill the form with the information needed, and send it.	6- Check the Validation of the data. - if the data is not correct, then send a message with the specified error, and return the form page again.

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7- after receiving the OTP, I must enter the OTP within 30 minutes in the confirmation form.	8- if the OTP is not correct or the OTP became invalid, the system shouldn't accept the OTP, and send a new one to the email again.

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User Story #03

User Story ID	US #03
User Story Name	Login
Actors	Registered User (have an account)
Description	As a user, I want to be able to open the system, and login to it with my account.
Preconditions	have an account in the system.
Postcondition	have the ability to use the system with my account.
Acceptance Criteria	Given that I have an account in the system, I open the system then the "Register" and "Login" button appeare. - I'll choose the Login button. - The Login form appears to be filled with email and password. - After filling the form I confirm my inputs. - the account will open after that. - Now I can do viewing, ordering, view order history, and search for an item.

Scenarios:

- **Normal Scenario #1 (Login)**

Actor Action	System Response

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1- Open the system application or the website.	2- Show the main Page, The main Page shows: - "Register" Button. - "Login" Button.
3- Specify "Login".	4- Show the form for the Login process.
5- Fill the form with the information needed and send it.	6- Check the Validation of the data. - if the data is correct and the user not suspended, then open the system with his account.

- **Exceptional Scenario #1 (Login)**

Actor Action	System Response
5- Fill the form with the information needed, and send it.	6- Check the Validation of the data. - if the data is not correct, then send a message with the specified error, and return the form page again. - if the data is correct but the user is suspended then prevent the user from login to the system.

- **Exceptional Scenario #2 (Login)**

Actor Action	System Response

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5- Fill the form with the email but forgot the password	6- Show "Forget Password" button.
7- specify "Forget Password" button.	8- send an OTP to his specified email.
9- After receiving the OTP, I'll enter it in the OTP field and send it.	10- if the OTP is correct then open the system on the change the password page. - if the OTP is not correct, or becomes invalid, then return to the forget password page to try again with the new OTP that will be sent.

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User Story #04

User Story ID	**US #04**
User Story Name	**Contact Us**
Actors	**Logged User**
Description	**As** a logged user, I want to be able to contact the administrators of the system to complain about an issue.
Preconditions	**have an account in the system.**
Postcondition	**have the ability to contact the admins of the system.**
Acceptance Criteria	- choose the contact us button and it shows the facebook page link and the support link. - after choosing one of them, the system should direct me the specified way, and I should be able to contact the admins.

Scenarios:

- **Normal Scenario #1 (Contact Us)**

Actor Action	System Response
1- Choose the contact us button.	2- Shows 2 options: - Facebook Page link. - Support Phone Number.

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3- Choose one of the options.	3- Direct the user to the specified option that he chose.

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User Story #05

User Story ID	US #05
User Story Name	Search for an Item
Actors	General, or Logged User
Description	As a user, I want to be able to search for an item in the catalog.
Preconditions	no preconditions are required here.
Postcondition	have the ability to search for an item in the system.
Acceptance Criteria	- open the search bar, type the item name, category or brand - the system shows the result as the form that the user specified.

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Scenarios:

- **Normal Scenario #1 (Search for an Item)**

Actor Action	System Response
1- type the item name or brand in the search bar.	2- shows the item that have the same name or brand in a list, and shows similar items based on the brand or category.

- **Exceptional Scenario #2 (Search for an Item)**

Actor Action	System Response
1- type the item name or brand in the search bar.	2- if the item doesn't exist in the catalog, the system will give him a list of similar items. - if the item is out of stock the system will show him the item with the "out of stock" message.

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User Story #06

User Story ID	**US #06**
User Story Name	**View orders**
Actors	**Logged User**
Description	As a logged user, I want to be able to view the search history and reorder a past order.
Preconditions	**the user must be logged to the system.**
Postcondition	**have the ability to view the order history and order a past order.**
Acceptance Criteria	- By opening the order history section, I'll see the order history and can reorder a past order.

Scenarios:

- **Normal Scenario #1 (View Orders)**

Actor Action	System Response
1- open the order section.	2- Shows a list with the past orders, and the activated ones.

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- **Normal Scenario #2 (View Orders)**

Actor Action	System Response
1- open the view orders section.	2- Shows a list with the past orders, and activated ones.
3- reorder a specific order from the list.	4- add the order to the cart with the same conditions and quantity of the items.

- **Normal Scenario #3 (View Orders)**

Actor Action	System Response
1- open the view orders section.	2- Shows a list with the past orders, and activated ones.
3- cancel an active order.	4- if the order is activated within 24 hours only, then mark it as canceled.

- **Exceptional Scenario #1 (View Orders)**

Actor Action	System Response
1- open the view orders section.	2- if the user didn't order before then show a message "There are no orders".

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- **Exceptional Scenario #2 (View Orders)**

Actor Action	System Response
1- open the view orders section.	2- Shows a list with the past orders, and activated ones.
3- reorder a past order.	4- if the items, quantity, or conditions can not be made for this order, make a new one the available quantity, conditions, and items. - and show a message with the difference between the past order and the new one.

- **Exceptional Scenario #3 (View Orders)**

Actor Action	System Response
1- open the view orders section.	2- Shows a list with the past orders, and activated ones.
3- cancel an activated order.	4- if the order is activated within more than 24 hours, then do not allow the canceling process.

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User Story #07

User Story ID	US #07
User Story Name	Login To Admin App
Actors	Admin / Owner
Description	As a Customer Who pays your complete salary, I want to open the app then enter my email and password and click Log-in button to complete login
Preconditions	Admin is not logged in
Postcondition	Admin must get panel access
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

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Scenarios:

- **Normal Scenario #1 (Login for admin)**

Actor Action	System Response
1- User Enter Email and Password, and Click Submit	2- System Verify user credentials, if Credentials are right, user is logged in
3- User is logged in, and keeps using the software.	

- **Exceptional Scenario #1 : wrong credentials**

Actor Action	System Response
1- User Enter Email and Password, then Click Submit.	2- System tries to validate user info, if credentials are wrong, System returns an error message to user

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User Story #08

User Story ID	US #08
User Story Name	Suspend a Customer
Actors	Admin / Owner
Description	As a Customer Who pays your complete salary, I want to open the app, see a log of all the orders made, sorted by newer to older then suspend a user through clicking a suspend-user button on the order made.
Preconditions	Admin must be logged-in
Postcondition	The selected user must be suspended afterwards, suspended users should be logged out from their devices & shall not be able to log-in again until Admin un-ban them.
Acceptance Criteria	Given Admin / Owner logged-in, they must be able to view all orders made, and click suspend-user to get that user suspended.

Scenarios:

- **Normal Scenario #1 (suspend user)**

Actor Action	System Response
1- Admin clicks on all orders section	2- the system shows to the admin the orders section.

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3- Admin clicks suspend-user on the order they want from all orders section 5- Admin answers	4- System asks admin for confirmation
	6- a) If Admin approves, System marks user as banned, and adds the user in the banned-users section, then logs-out the banned user 6- b) Admin dis-approves, system goes back to step 2

- **Exceptional Scenario #1 : (User is already suspended)**

Actor Action	System Response
1- Admin clicks on all orders section	2- the system shows to the admin the orders section.
3- Admin clicks suspend-user on the order they want from all orders section	4- System asks admin for confirmation
5- Admin answers	6- a) If the admin approves, User is already suspended, then the system returns an error message saying that the user is already banned.

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	6- b) Admin disapproves, system goes back to step 2

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User Story #08-1

User Story ID	US #08-1
User Story Name	Unsuspend a Customer
Actors	Admin / Owner
Description	As a Customer Who pays your complete salary, I want to open the app, be able to see all banned customers, and unban whoever I want from them.
Preconditions	Admin must be logged-in
Postcondition	The selected user must be unsuspended afterwards, meaning they become able to login
Acceptance Criteria	Any suspended customer can be unsuspended

Scenarios:

- **Normal Scenario #1 (unsuspend user)**

Actor Action	System Response
1- Admin uses suspended users command	2- System displays all the suspended users, sorted by date they were banned on, newer is higher

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3- Admin chooses un-suspend command on the user they want to unsuspend **5- Admin answers**	**4- System asks admin for confirmation**
	6- a) If Admin approves, System marks user as un-banned, and removes the user from the banned-users section. **6- b) Admin dis-approves, system goes back to step 2**

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User Story #09

User Story ID	US #09
User Story Name	Set Discount
Actors	Admin/Owner
Description	As a Customer Who pays your complete salary, I want to set discount by clicking on set-discount button then I shall be able to set discount for all items, or one item or a whole category
Preconditions	Admin must be logged in
Postcondition	Discounts must be applied and users should use them.
Acceptance Criteria	discount is a percentage between 0 & 100 included , continuous.

Scenarios:

- **Normal Scenario #1 (set discount)**

Actor Action	System Response
1- Admin chooses set discount command	2- System displays 3 options, item, all items or a category
3- admin chooses one of them	4-A) • If admin chooses all items

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	4-B) • **Admin Choses one item, all items are displayed then admin chooses one of them** **4-C)** • **Admin choses Category, all categories are displayed and admin chooses the wanted category** **5- an input box appears**
6- admin enters the discount they want to apply, then submit the choice.	**7- system set the discount to all the specified item/s that the admin made.**

- **Exceptional Scenario #1 (admin enters a discount that is not between 0 & 100)**

Actor Action	System Response
1- Admin chooses set discount command	**2- System displays 3 options, item, all items or a category**
3- admin chooses one of them	**4-A)** • **If admin chooses all items,** **4-B)**

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	● Admin Choses one item, all items are displayed then admin chooses one of them 4-C) ● Admin choses Category, all categories are displayed and admin chooses the wanted category 5- an input box appears
6- admin enters the discount they want to apply for but it's not between 0 and 100, then submits a choice.	8- System returns an error message

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User Story #10

User Story ID	US #10
User Story Name	Add Item
Actors	Admin/Owner
Description	As a Customer Who pays your complete salary, I want to add items by clicking on add-item button, then see a window to add item, input all the details or files for the item and then click submit.
Preconditions	Admin must be logged in
Postcondition	Item details must be edited accordingly
Acceptance Criteria	Given I'm a logged-in admin, I can change item details

Scenarios:

- **Normal Scenario #1 (add item in the catalog)**

Actor Action	System Response
1- Admin clicks add item	2- System navigates user to add items window

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3- Admin adds all the item details (mentioned in the requirements above) and clicks submit	**4- the system add then to the catalog.**

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User Story #11

User Story ID	US #11
User Story Name	Edit Loyalty Points Scheme
Actors	Admin / Owner
Description	As a Customer Who pays your complete salary, I want to open the app then click on edit-loyalty-scheme, I shall be navigated to a window for that purpose then I shall enter a number between 0 to 100, in percentage.
Preconditions	Admin must be logged in
Postcondition	New Loyalty points scheme should be applied.
Acceptance Criteria	Any percentage number between 0 to 100 is fine

Scenarios:

- **Normal Scenario #1 (edit-loyalty points)**

Actor Action	System Response
1-Admin clicks edit-loyalty-points button.	2- System navigates to the edit-loyalty-points window
3- Admin changes the percentage by entering a number between 0 to 100,	5- System

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continuous precision with 5 places after the integer part, then clicks submit	

- **Exceptional Scenario #1**

Actor Action	System Response
1- Admin clicks edit-loyalty-points button.	2- System navigates to the edit-loyalty-points window
3- Admin changes the percentage by entering a number that is not in range, larger than 100 or smaller than 0	4- System returns an error message for user

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User Story #12

User Story ID`	US #12
User Story Name	View All Orders
Actors	Admin / Owner
Description	As a Customer Who pays your complete salary, I want to open the app then click on view all orders button then I should see a list of all the orderes made, sorted by newer to older.
Preconditions	Admin must be logged in
Postcondition	None
Acceptance Criteria	None

Scenarios:

- **Normal Scenario #1 (view all orders)**

Actor Action	System Response
1-Admin clicks view-all-orders button	2- System navigates to the view-all-orders window.

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User Story #13

User Story ID	US #13
User Story Name	View Statistics
Actors	Admin / Owner
Description	As a Customer Who pays your complete salary, I want to be able to open the statistics page to view statistics about my websites.
Preconditions	Admin must be logged in
Postcondition	None
Acceptance Criteria	None

Scenarios:

- **Normal Scenario #1 (view-statistics)**

Actor Action	System Response
1-Admin clicks view-statistics	2- System navigates to the view statistics page, and displays statistics mentioned in requirements

Software Requirements Specifications

User Story #14

User Story ID	US #14
User Story Name	View/Browse items catalog
Actors	Customer
Description	As a Customer, I would like to be able to browse through the items catalog to view and select from the different available items. I would like to be able to filter/categorize my view also.
Preconditions	-
Postcondition	-
Acceptance Criteria	As I open the app, I can see the item catalog, navigate through it, **select an item**, categorize view or search for an item by: (name / brand).

Scenarios:

- **Normal Scenario #1**

Actor Action	System Response

1- Open the application.	2- Show items catalog, with:
	  - search bar
	  - filter (to categorize view).

Software Requirements Specifications

3- Browse through the catalog / choose a different view.	**4- Show views accordingly.**
5- Select an item.	**6- Show item details and button for showing description.**

Software Requirements Specifications

User Story #15

User Story ID	US #15
User Story Name	Select an item from the catalog.
Actors	Customer
Description	As a Customer, I would like to be able to select an item from the catalog and view a detailed view of this item. And be able to show the item description if I wish.
Preconditions	**must be logged into the system.**
Postcondition	-
Acceptance Criteria	Given that I am on the items catalog page, I can select an item. Then this item is shown to me in a detailed view, with the ability to view its description, specify a quantity and it to my cart or go back to the item catalog.

Scenarios:

- Normal Scenario #1

Actor Action	System Response
1- Select an item from the catalog	2- Show a detailed view of the item. With buttons:

Software Requirements Specifications

	- Add to cart - Show description
3- Specify `Show description`.	4- Show item description.

- **Normal Scenario #2**

Actor Action	System Response

1- Select an item from the catalog	2- Show a detailed view of the item.
	With buttons:
	   - Add to cart
	   - Show description

3- Specify `Add to cart`.	4- add the item to the cart to be ordered after finishing the shopping.

Software Requirements Specifications

User Story #16

User Story ID	US #16
User Story Name	Add a voucher to the Shopping Cart.
Actors	Customer / Non-Registered User
Description	As a Customer, I would like to be able to buy vouchers for myself and for my beloved ones.
Preconditions	-
Postcondition	A voucher is added to Cart with the specified customer's details.
Acceptance Criteria	Given that I am logged into my account, I can navigate to `Buy a voucher` and then when I checkout, it's added to my/specified-user account.

Scenarios:

- **Normal Scenario #1**

Actor Action	System Response
1- Navigate to `Buy a Voucher`.	2- Show `Buy Voucher` panel. 3- Ask for the voucher value and the specified account.

Software Requirements Specifications

4- Specify value and choose to add the voucher to his/another account.	5- Show message: "Voucher added to your shopping cart".

Software Requirements Specifications

User Story #17

User Story ID	**US #17**
User Story Name	**View Shopping Cart**
Actors	**Non-Registered User / Customer**
Description	**As a** Customer I want to be able to view my shopping cart and view items inside it and manage these items.
Preconditions	-
Postcondition	-
Acceptance Criteria	Given that I am shopping and selecting items/vouchers. When I specify `Show Shopping Cart`, I want to see all the items inside my shopping cart, and be able to manage them (remove from cart).

Software Requirements Specifications

Scenarios:

- **Normal Scenario #1**

Actor Action	System Response
1- Specify `Shopping Cart`.	2- Show `Shopping Cart View`. 3- Show next to each item: `Remove`

- **Normal Scenario #2 (Remove item from shopping cart)**

Actor Action	System Response
4- Specify `Remove`.	5- Ask for confirmation.
6- Specify `Confirm`.	7- Remove item from shopping cart.

Software Requirements Specifications

User Story #18

User Story ID	US #18
User Story Name	Checkout
Actors	**Non-Registered User / Customer**
Description	**As a** Customer I want to be able to proceed to checkout and specify a payment method, and confirm my order.
Preconditions	**Shopping Cart has at least one item.**
Postcondition	**Order is placed.**
Acceptance Criteria	Given that I have filled my shopping cart with the items that I need. I expect to be permitted to checkout; specifying the shipping address for this order and the payment method that I want. Then my order gets confirmed.

Scenarios:

- **Normal Scenario #1 (Pay on delivery)**

Actor Action	System Response
1- Specify `Checkout`.	2- Show `Checkout View`: showing total order cost. 3- Show `Specify shipping address`.

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	4- Show `Specify payment method`:
	    - On delivery
	    - Pay with an E-Wallet.
	5- Show `Specify redeem options`:
	    - Redeem loyalty points
	    - Redeem a voucher.

6- Specify an Address.
7- Specify `Pay on delivery`.
(Optional)- Specify `*Redeem*`.
	8- Show order details:
	  - Address
	  - Payment method
	  - Items
	  - Total cost.
	9- Ask for confirmation.

10- Specify `Confirm`.	11- Show message: "Order confirmed".

- **Exceptional Scenario #1 (Non-Registered User)**

Actor Action	System Response

1- Specify `Checkout`.	2- Show message: "To proceed to checkout, you must have an account. Want to proceed?
	  - *Sign in*
	  - Continue shopping".

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- **Exceptional Scenario #2 (Total Cost exceeds 2000 EGP)**

Actor Action	System Response
7- Specify `Pay on delivery`.	8- Show message: "Orders with total cost more than 2000 EGP are not subject to Pay on delivery option". 9- Re-show `Checkout View`.

Exceptional Scenario #3 (Shopping Cart contains at least one voucher)

Actor Action	System Response
7- Specify `Pay on delivery`.	8- Show message: "Vouchers must be paid with E-Wallet". 9- Re-show `Checkout View`.

Normal Scenario #2 (Pay with E-Wallet)

Actor Action	System Response
7- Specify `Pay with E-Wallet`.	8- If success: Show message: "Order confirmed". if not: Re-show `Checkout View`.

Software Requirements Specifications

User Story #19

User Story ID	US #19
User Story Name	Pay with E-Wallet
Actors	Customer
Description	As a Customer, I want to be able to pay with my E-Wallet.
Preconditions	-
Postcondition	-
Acceptance Criteria	Given that I have provided my E-Wallet account number. I expect that my order gets paid from my balance (if I have enough balance.)

Scenarios:

- **Normal Scenario #1**

Actor Action	System Response
1- Specify `Pay with E-Wallet`.	2- Prompt the user for E-Wallet number and password.
3- Specify E-Wallet number and password.	4- Make a request to the E-Wallet vendor to pay with the specified number, password and total cost.

Software Requirements Specifications

	5- Show message: "Payment success". 6- Continue `Checkout View`.

- **Exceptional Scenario #1 (Not enough balance/Not enough balance)**

Actor Action	System Response
	4- Make a request to the E-Wallet vendor to pay with the specified number, password and total cost. 5- Show message: "Payment failed, make sure you provided correct credentials and your account has enough balance".

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User Story #20

User Story ID	US #20
User Story Name	Redeem voucher/loyalty points
Actors	Customer
Description	As a Customer, I want to be able to redeem my loyalty points or one or more from my vouchers to apply a discount on my order.
Preconditions	Have at least one voucher/loyalty point in their account.
Postcondition	Loyalty points/Voucher used is removed from their account.
Acceptance Criteria	Given that I am checking out my order. I want to be able to apply a discount on my order using my loyalty points or one of my vouchers. Then the total cost of my order is reduced with the voucher/loyalty points amount.

Scenarios:

- **Normal Scenario #1 (Use a voucher)**

Actor Action	System Response
1- Specify `Redeem a voucher`.	2- Show list of available vouchers.

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3- Specify a voucher.	4- Reduce the total cost of the order with the voucher's value. 5- Remove the voucher from the list.

- **Exceptional Scenario #1 (Voucher value is greater than order's total cost)**

Actor Action	System Response
	4- Reduce the total cost of the order with the voucher's value. 5- Show message: "Voucher value exceeds the total cost of the order, do you wish to proceed and add a new voucher to your account with the remaining value?"
6- Specify `OK`.	7- Add a new voucher to the user's account with the difference value. 8- Remove the used voucher from the list.

- **Normal Scenario #2 (Use loyalty points)**

Actor Action	System Response
1- Specify `Redeem loyalty points`.	2- Show available loyalty points. 3- Show message: "Specify amount".

Software Requirements Specifications

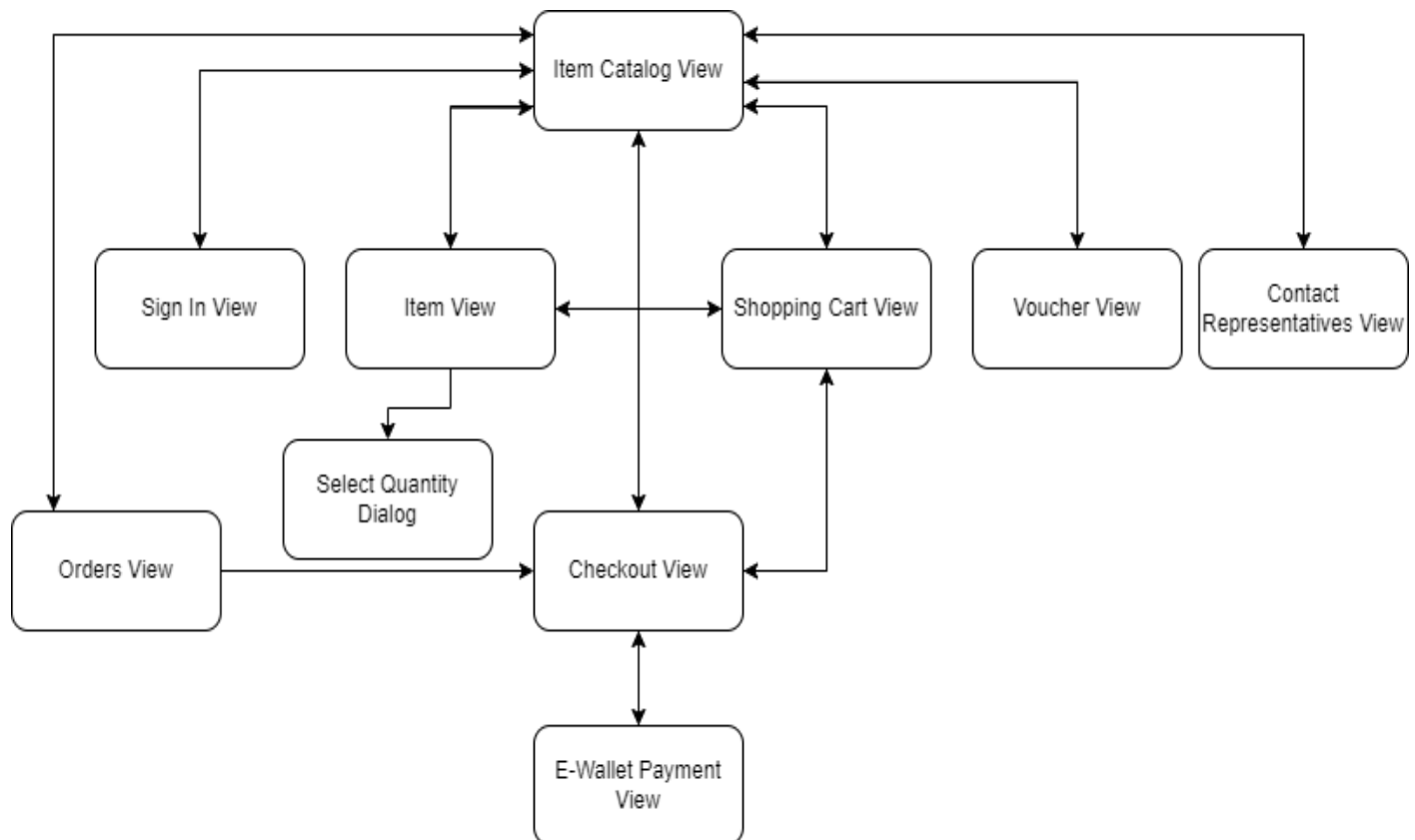|	
4- Specify the amount of loyalty points to use.	4- Reduce the total cost of the order with the loyalty points' value. 5- Remove the amount of loyalty points used from their account.

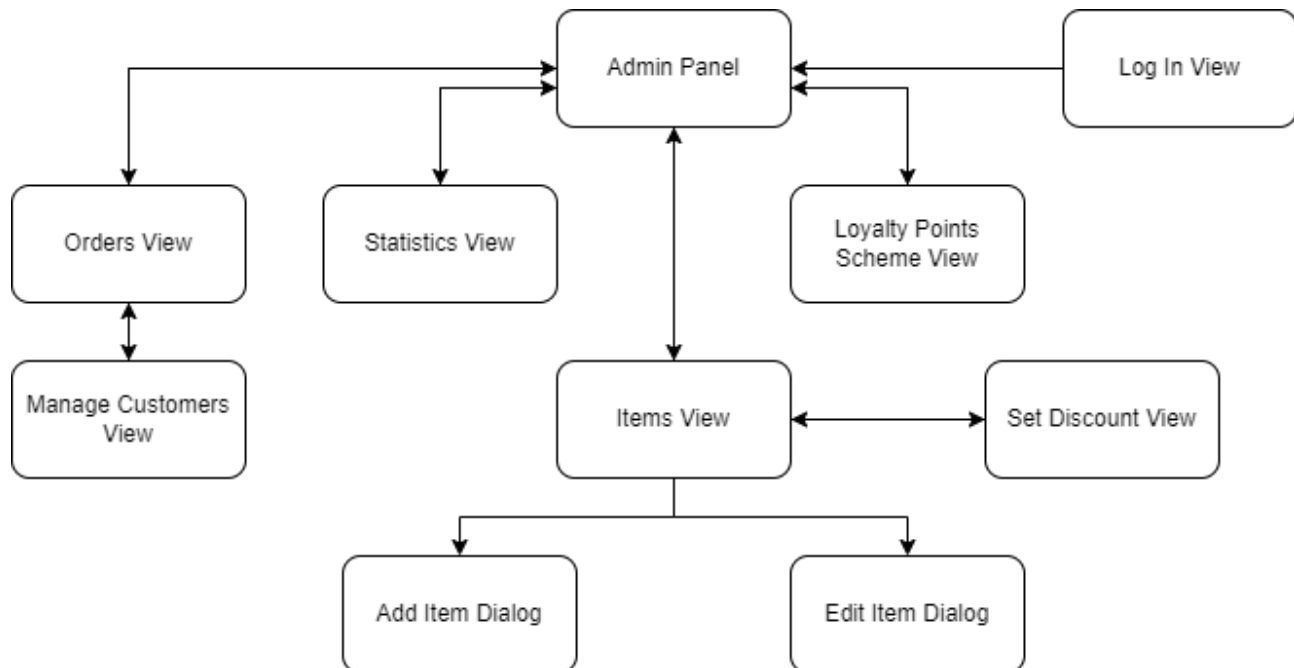# Software Requirements Specifications

System Navigation Map

Customer Application

Software Requirements Specifications

Administrator Application

Software Requirements Specifications

Tools

Lucid: https://lucid.app/
draw.io: https://app.diagrams.net/