



FACULTY OF COMPUTERS AND AI

CAIRO UNIVERSITY

# **CS251 – Software Engineering 1**

## **Second Semester**

### **Assignment 2**

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# CS251: Phase 1 – Above Minimum

## Project: Toffee System

# Software Requirements Specifications

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# CS251: Phase 1 – Above Minimum

## Project: Toffee System

## Software Requirements Specifications

### Team

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### Document Purpose and Audience

#### Purpose:

This document's goal is to make requirements for software that have been agreed upon by the stakeholders clear by outlining the functionalities that must be included in the software. This will cut down on both development and cost.

#### Audience

- Stakeholders
- Software Developers

### Introduction

#### Software Purpose

The purpose of Toffee is to sell the products of Sara Tamer and Maya Ayman in online store.

#### Software Scope

Toffee implements a selling system for sweet products with different functionalities for store owners and customers. It also supports administrators for monitoring customers during buying products from the store.

#### Definitions, acronyms, and abbreviations

Phrase	Definition
OTP	A Code sent to mobile number or E-Mail to confirm user identity.
Loyalty Points	Points that user gain after ordering, the store determines its percentage from the total cost of the order. The user can use it in making another order.
Gift Voucher	Code can be used once to reduce the cost of the order by its value. User can buy it as a gift to someone.
Loose Item	Items that are sold by Kilo.



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## Project: Toffee System

### Software Requirements Specifications

E-Wallet	A form of technology, online application, or software that enables electronic trade between two parties exchanging money for goods and services.
Scalability	The ability of a computer application or product (hardware or software) to continue to function well when it (or its context) is changed in size or volume to meet a user need. Typically, the rescaling is to a larger size or volume
Portability	Is the possibility to use the same software in different environments. It applies to the software that is available for two or more different platforms or can be recompiled for them.
Compatibility	Ability of the software of running on different hardware, operating systems, applications, network environments or Mobile devices and the hardware form different sources can work together.
Reliability	The probability that a software system fulfills its assigned task in a given environment for a predefined number of input cases, assuming that the hardware and the input are free of error.
Maintainability	Refers to the ease with which you can repair, improve and understand software code. Software maintenance is a phase in the software development cycle that starts after the customer has received the product.

### Requirements

#### Functional Requirements

Requirement ID	Requirement Statement
FR01	The system shall have a catalog page as soon as the user opens the system. S/he can search for an item in the catalog by name or brand.
FR02	The system asks the user to register first to be able to purchase items. It checks her/his email's ownership by sending OTP to it. It checks if the password follows secure password guidelines.
FR03	If user chooses to login s/he should enter his email and password. The system checks if the email and password match or not.
FR04	If the user forgot his/her password s/he can click on forget password button. The system sends him/her an OTP to his/her email.
FR05	Logged in user can add items to his/her shopping cart and chooses the quantity s/he wants. The system checks if the chosen quantity is available or not.
FR06	To confirm the order the user should click on check out button. The system views the order and asks him/her to choose the payment method s/he prefers. The system has 4 payment methods: <ul style="list-style-type: none"> <li>• <a href="#">Gift voucher</a> The system subtracts the value of the voucher from the cost of the order. If there is still money in the voucher the system makes new voucher with the remaining money as the voucher can be used only once.</li> </ul>



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

	<ul style="list-style-type: none"> <li>• <b>Cash</b> On paying by cash user pays extra 20EGP and s/he can't pay by cash if the total cost is greater than 2000EGP and if the order has loose item greater than 10 Kilos. The user should enter his mobile number and the system sends OTP to him/her to confirm the order. The system adds 5% of the total cost as loyalty points.</li> <li>• <b>E-wallet</b> The system sends verification code to confirm the order. The order will be canceled if the code expires without paying. The system adds 10% of the total cost as loyalty points.</li> <li>• <b>Loyalty points</b> The system subtracts the value of the points from the cost of the order.</li> </ul>
FR07	On canceling the order, the total cost will be returned as loyalty points in case of paying using E-wallet. The user can't cancel the order after 24-hour from making it.
FR08	The user can re-order a previous order from the order history page with the same exact conditions. The system notifies the user if the ordered item is not available.
FR09	The User can update his information like address, phone number, etc.
FR10	The user can contact the system through contact us page if s/he has any problem like getting banned.
FR11	The admin can update the catalog by adding new item or update the system with the number of available items at the store.
FR12	The admin can update item's information like name, category, description, image, brand, price and discount percentage (if any).
FR13	The admin can delete items from the catalog by making it out of stock.
FR14	The admin can view orders made by users to deliver it.
FR15	The admin can set the percentage of the loyalty points.
FR16	The admin can suspend a user if s/he violated the system policy.
FR17	Statistics provide store owners with a view of how the store is doing. This may include daily and monthly sales, sales of each item in a period of time, most popular products, among other statistics.



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

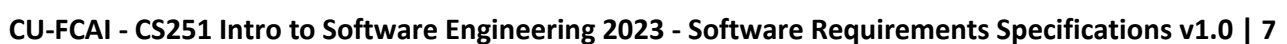
## Software Requirements Specifications

### Non-Functional Requirements

Requirement	Details
Accessibility	Alt text and screen reading should be added to toffee to help blind people in their experience.
Boot up time	Boot up time should take no more than 3~5 seconds on average. Super-fast boot up time isn't necessary either on android or IOS.
Capacity	Expected number of customers would average a few hundred customers per week. Expected number of customers would average a couple of thousand weekly users in a year time. After 3 years, at least 10 thousand users would be expected to be served per week.
Extensibility and Flexibility	Toffee should be flexible to changes that might need to be done to the software. Either by altering current features or by adding new features to the system. No major customizations are expected in the first 5 years. The 5 years that follow will contain a new UX and will enhance all the current features. Yearly assessments should be made to decide which features to add, leave out or enhance.
Internationalization and Localization	Users should be able to order from outside Egypt, but delivery should be inside Egypt only.
Open source	Toffee should not be open source.
Performance/Response time	<ul style="list-style-type: none"> <li>• Response upon click should not take more than half a second.</li> <li>• Response time on payments should not take more than a couple of milliseconds to accept payments.</li> <li>• OTPs should be sent in about a minute.</li> <li>• Requesting OTP from "OTP not sent" should take about half a minute.</li> </ul>
Platform Compatibility	<ul style="list-style-type: none"> <li>• For users: Toffee should be Android and IOS compatible.</li> <li>• For admins: Toffee should be compatible on browsers like Google Chrome, Firefox, Microsoft Edge and Brave.</li> </ul>
Portability	Toffee should be portable as it will be working on Android and IOS.
Readability and Usability	Toffee should be simple, readable, and easily usable as the target audience are users with basic technological knowledge or almost no technological knowledge.
Reliability	Toffee must be reliable to prevent loss of pending orders.
Resource Constraints	<ul style="list-style-type: none"> <li>• Minimum Requirements on Android: 4GB RAM, 100 Mb free storage, Android 9.0</li> </ul>

	<ul style="list-style-type: none"> <li>Minimum Requirements on IOS: 4GB RAM, 150 Mb free storage, IOS 10.3.4</li> </ul>
Security	<ul style="list-style-type: none"> <li>Passwords should be encrypted using AES256 algorithm.</li> <li>Payments are entirely done by third parties like banks and E-wallets and toffee would have nothing to do with payment other than requesting and receiving payments.</li> </ul>

## Use Case Model







# CS251: Phase 1 – Above Minimum

## Project: Toffee System

## Software Requirements Specifications

### Enriched User Stories

- User Story #1**

<b>User Story ID</b>	US #1
<b>User Story Name</b>	Display catalog
<b>Actors</b>	Client
<b>Description</b>	As a client I like to be able to see available items. So, I can choose an item to buy
<b>Per condition</b>	
<b>Post condition</b>	
<b>Acceptance Criteria</b>	Given I'm a general client. When I open the store, I want to see the catalog. Then the system shows me the catalog

- Scenarios**

#### Normal Scenario

Actor Action	System Response
1- User opens the store.	
	2- System views the catalog.
3- User searches for items by name or brand.	
	4-System views the item user searched for.

#### Exceptional Scenario

Actor Action	System Response
1- User opens the store.	
	2- System views the catalog.
3- User searches for items by name or brand.	
	4-System responds that the item doesn't exist.



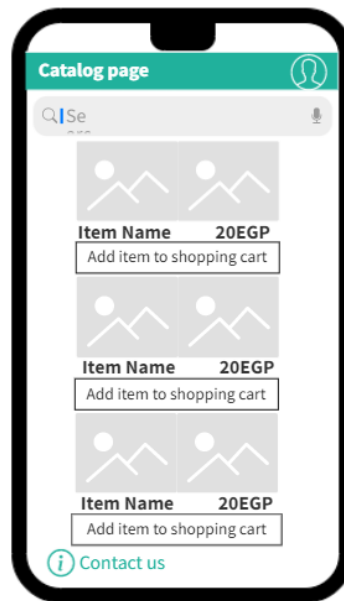


# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- **Screen Design**



- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Search field	Text < 100 Characters	Structured Text
Item name	Text < 50 Characters	Structured Text
Item price	Integer < 5 digits	Integer > 0 and in EGP



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- **User Story #2**

<b>User Story ID</b>	US #2
<b>User Story Name</b>	Register
<b>Actors</b>	Client
<b>Description</b>	<p>As a client</p> <p>I'd like to be able to Register in the system.</p> <p>So that I can log in and access its services</p>
<b>Per condition</b>	
<b>Post condition</b>	
<b>Acceptance Criteria</b>	<p><b>Given</b> I'm a User and I'm on the sign-up.</p> <p><b>When</b> I fill in the register information fields with my credentials, and I click register.</p> <p><b>Then</b> the system signs me up</p>

- **Scenarios**

#### Normal Scenario

Actor Action	System Response
1- User chooses to register.	
	2- System displays registration page.
3- User fills in the register information fields with his credentials and clicks register.	
	4- The system checks her/his email's ownership by sending OTP to it.
5- User enters verification code.	
	6- System saves user information in the database.



# CS251: Phase 1 – Above Minimum

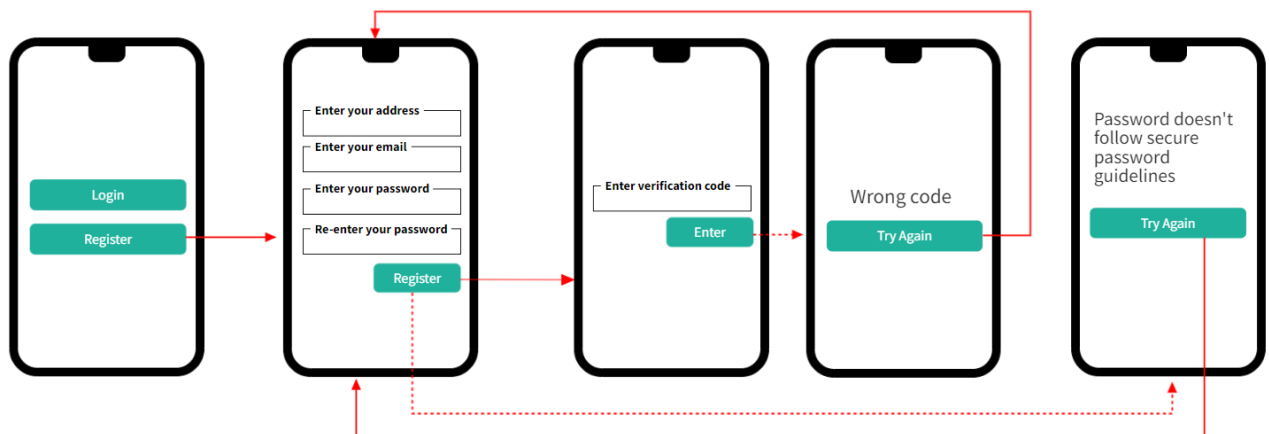
## Project: Toffee System

### Software Requirements Specifications

#### Exceptional Scenario

Actor Action	System Response
1- User chooses to register.	
	2- System displays registration page.
3- User fills in the register information fields with his credentials and clicks register.	
	4- The system rejects the registration if the password doesn't follow secure password guidelines.
Actor Action	System Response
1- User chooses to register.	
	2- System displays registration page.
3- User fills in the register information fields with his credentials and clicks register.	
	4-The system sends OTP to the user.
5-User enters verification code.	
	6- The system rejects the registration if the verification code is wrong.

- Screen Design





# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Address field	Text < 100 Characters	Structured Text
E-Mail field	Text < 100 Characters	Structured Text
Password field	Alphanumeric < 100	Characters Password confirmation and must include an uppercase letter, numbers and/or special characters
Verification code field	Integer < 6	Integer > 0 digits

- User Story #3**

<b>User Story ID</b>	US #3
<b>User Story Name</b>	Login
<b>Actors</b>	Client
<b>Description</b>	<p>As a client</p> <p>I'd like to be able to login to the system.</p> <p>So that I can use its functionalities</p>
<b>Per condition</b>	
<b>Post condition</b>	
<b>Acceptance Criteria</b>	<p><b>Given</b> I'm a logged-out user and I'm on the Log-In page.</p> <p><b>When</b> I fill in the "Username" and "Password" fields with my authentication credentials and I click the Log-In button</p> <p><b>Then</b> the system signs me in</p>



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- Scenarios

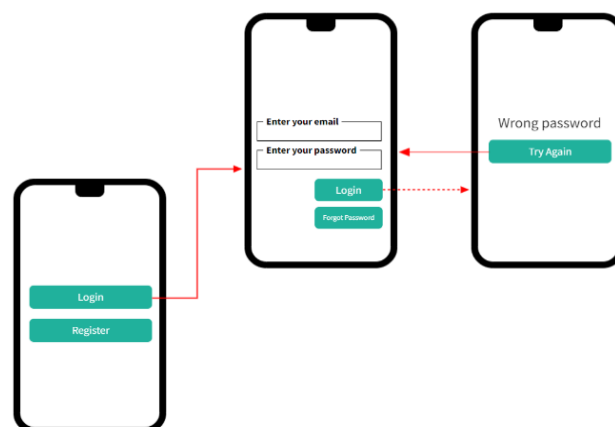
#### Normal Scenario

Actor Action	System Response
1- User chooses to login.	
	2- System displays login page.
3- User fills in the boxes and clicks login.	
	4- System verifies the user information.
	5- System accesses user to app functionalities.

#### Exceptional Scenario

Actor Action	System Response
1- User chooses to login.	
	2- System displays login page.
3- User fills in the boxes and clicks login.	
	4- System verifies the user information.
	5- System finds input information invalid.
	6- System displays “Please enter valid email/password” message.

- Screen Design





# CS251: Phase 1 – Above Minimum

## Project: Toffee System

## Software Requirements Specifications

- Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
E-Mail field	Text < 100 Characters	Structured Text
Password field	Text < 100 Characters	Structured Text

- User Story #4**

<b>User Story ID</b>	US #4
<b>User Story Name</b>	Forget password
<b>Actors</b>	Client
<b>Description</b>	As a client I'd like to be able to change my password if I forgot it. So that I can log in with my new password.
<b>Per condition</b>	
<b>Post condition</b>	
<b>Acceptance Criteria</b>	Given I'm a logged-out user and I'm on the Log-In page. When I click on the "Forget password" button and enter my email and the new password Then the system changes my password and save the new one.

- Scenarios**

### Normal Scenario

Actor Action	System Response
1- User chooses to login.	
2- User chooses forget password.	
	3- System displays forget password page.
4- User fills in the boxes and clicks confirm.	
	5- System sends OTP to user's email.
6- User enters the verification code.	
	5- System changes the password to the new one in the database.



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

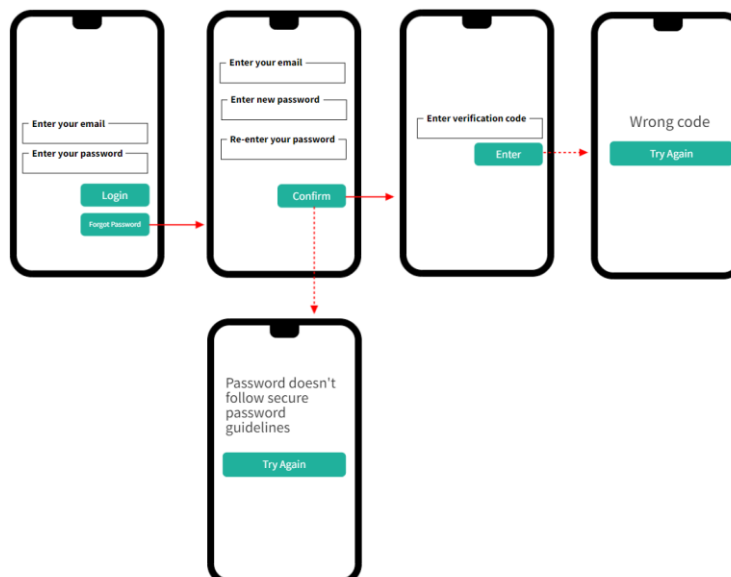
## Software Requirements Specifications

### Exceptional Scenario

Actor Action	System Response
1- User chooses to login.	
2- User chooses forget password.	
	3- System displays forget password page.
4- User fills in the boxes and clicks confirm.	
	5- The system rejects the registration if the password doesn't follow secure password guidelines.

Actor Action	System Response
1- User chooses to login.	
2- User chooses forget password.	
	3- System displays forget password page.
4- User fills in the boxes and clicks confirm.	
	5- System sends OTP to user's email.
6- User enters the verification code.	
	6- The system rejects the registration if the verification code is wrong.

- Screen Design







# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
E-Mail field	Text < 100 Characters	Structured Text
Password field	Alphanumeric < 100	Characters Password confirmation and must include an uppercase letter, numbers and/or special characters
Verification code field	Integer < 6	Integer > 0 digits

- User Story #5**

<b>User Story ID</b>	US #5
<b>User Story Name</b>	Add item to shopping cart
<b>Actors</b>	Client
<b>Description</b>	As a client I'd like to be able to add items to my shopping cart. So that I can make order with these items.
<b>Per condition</b>	
<b>Post condition</b>	
<b>Acceptance Criteria</b>	Given I'm a logged-in user. When I click on the "Add item to shopping cart" button. Then the system adds the item that I want to the cart.

- Scenarios**

#### Normal Scenario

Actor Action	System Response
1- User clicks on "Add item to shopping cart" button.	
2- User chooses the number of items s/he wants.	
	3- The system adds what user wants in the shopping cart.



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

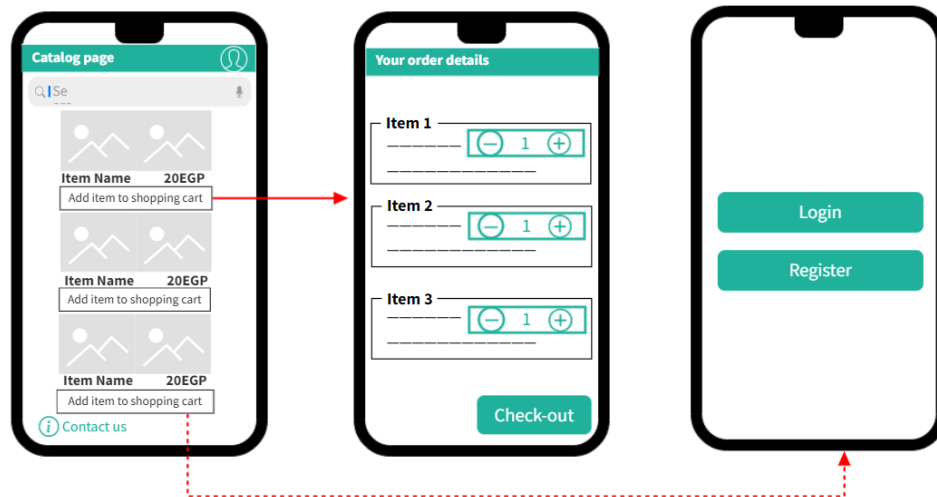
## Software Requirements Specifications

### Exceptional Scenario

Actor Action	System Response
1- User clicks on “Add item to shopping cart” button.	
	2- The system rejects if the user is logged-out.
	3- The system displays the log in/register page.

Actor Action	System Response
1- User clicks on “Add item to shopping cart” button.	
2- User chooses number of items that s/he wants.	
	3- The system rejects if the number of items is unavailable.

### • Screen Design



### • Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Search field	Text < 100 Characters	Structured Text
Item name field	Text < 50 Characters	Structured Text



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

## Software Requirements Specifications

Element Label	Type/Length	Data Validation / Business Rule
Item price field	Integer < 5 digits	Integer > 0 and in EGP
Number of items field	Integer < 3 digits	0 < Integer < 50

### • User Story #6

<b>User Story ID</b>	US #6
<b>User Story Name</b>	Check-out
<b>Actors</b>	Client
<b>Description</b>	As a client I'd like to be able to check-out my order.
<b>Per condition</b>	
<b>Post condition</b>	
<b>Acceptance Criteria</b>	<b>Given</b> I'm a logged-in user and I want to check-out my order. <b>When</b> I click on the "check-out" button. <b>Then</b> the system displays the available payment methods.

### • Scenarios

#### Normal Scenario

Actor Action	System Response
1- User chooses to check-out.	
	2- The system displays the payment methods page.
3- User chooses the method s/he wants to pay with.	

#### Exceptional Scenario

There are no exceptional scenarios to this user story.

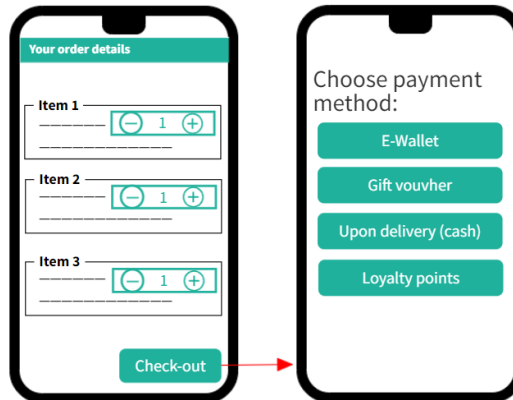


# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- Screen Design



- Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Number of items field	Integer < 3 digits	0 < Integer < 50

- User Story #7

User Story ID	US #7
User Story Name	Payment with E-Wallet
Actors	Client
Description	As a client I'd like to be able to pay with E-Wallet. So that I can check-out my order
Per condition	
Post condition	
Acceptance Criteria	Given I'm a logged-in user. When I click on the "E-Wallet" button. Then the system sends me a code to pay with.



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- Scenarios

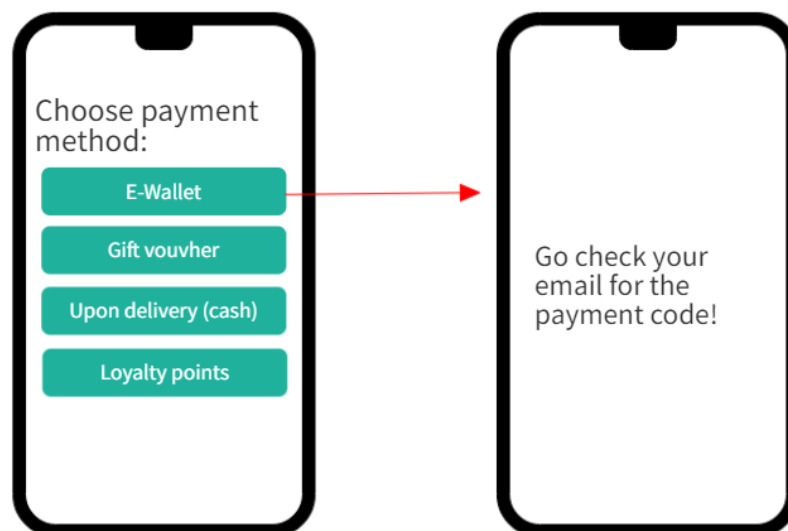
#### Normal Scenario

Actor Action	System Response
1- User chooses to pay with E-wallet.	
	2- The system sends to the user via email a payment code.

#### Exceptional Scenario

Actor Action	System Response
1- User chooses to pay with E-wallet.	
	2- The system sends to the user via email a payment code.
3- The user doesn't respond before the expiry date.	
	4- The system rejects the order.

- Screen Design





# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- Data Dictionary:**

No data dictionary for this case.

- User Story #8**

<b>User Story ID</b>	US #8
<b>User Story Name</b>	Payment with gift voucher
<b>Actors</b>	Client
<b>Description</b>	<b>As a client</b> <b>I'd like</b> to be able to pay with E-Wallet. <b>So that</b> I can check-out my order
<b>Per condition</b>	
<b>Post condition</b>	
<b>Acceptance Criteria</b>	<b>Given</b> I'm a logged-in user. <b>When</b> I click on the "gift voucher" button. <b>Then</b> the system verifies the gift voucher code.

- Scenarios**

#### Normal Scenario

Actor Action	System Response
1- User chooses to pay with gift voucher.	
2- User enters the gift voucher code	
	3- The system uses the gift voucher.

#### Exceptional Scenario

Actor Action	System Response
1- User chooses to pay with gift voucher.	
2- User enters the gift voucher code	
	3- The system rejects the gift voucher because the code is used before OR wrong.



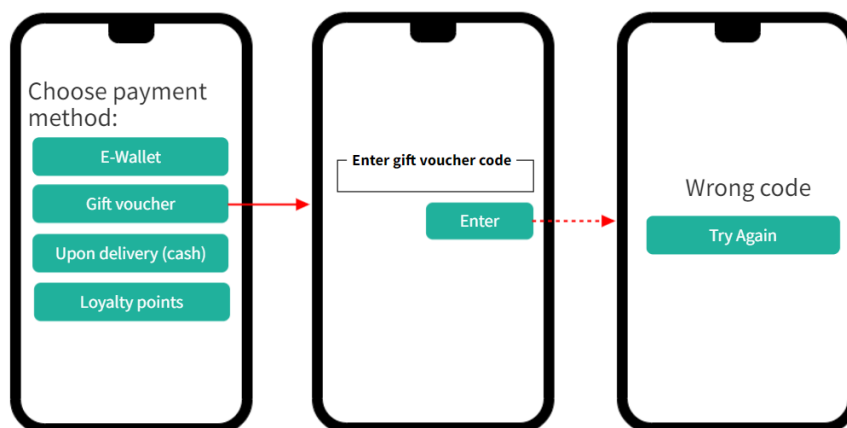
# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

Actor Action	System Response
1- User chooses to pay with gift voucher.	
2- User enters the gift voucher code	
	3- The system uses the gift voucher.
	4- The system creates new gift voucher with the difference between the total cost of the order and the value of the voucher

- Screen Design



- Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Gift voucher code field	Text < 50 Characters	Structured Text





# CS251: Phase 1 – Above Minimum

## Project: Toffee System

## Software Requirements Specifications

- User Story #9

User Story ID	US #9
User Story Name	Payment with Upon delivery (cash)
Actors	Client
Description	As a client I'd like to be able to pay with Upon delivery (cash). So that I can check-out my order
Per condition	
Post condition	
Acceptance Criteria	Given I'm a logged-in user. When I click on the "Upon delivery (cash)" button. Then the system takes my phone number.

- Scenarios

### Normal Scenario

Actor Action	System Response
1- User chooses to pay with Upon delivery (cash).	
	2- The system displays a page to take the user's phone number.
3- User enters his/her phone number.	
	4- The system sends verification code to the user via SMS.
5- User enters the code.	
	6- The system confirms the order.



# CS251: Phase 1 – Above Minimum

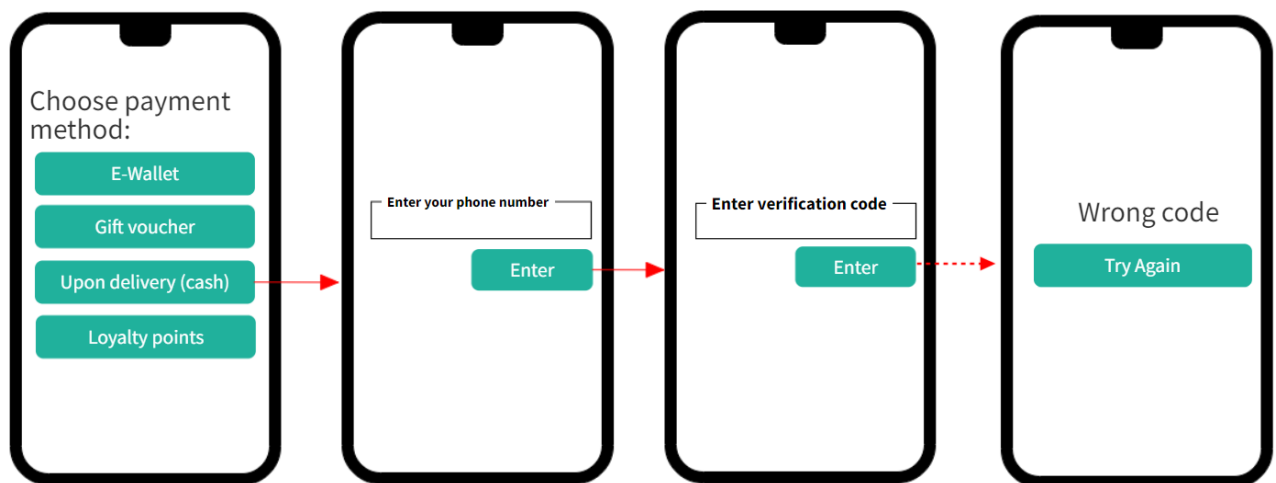
## Project: Toffee System

## Software Requirements Specifications

### Exceptional Scenario

Actor Action	System Response
1- User chooses to pay with Upon delivery (cash).	
	2- The system displays a page to take the user's phone number.
3- User enters his/her phone number.	
	4- The system sends verification code to the user via SMS.
5- User enters the code.	
	6- System reject the order because the code is wrong.

### • Screen Design



### • Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Verification code field	Integer < 6	Integer > 0 digits
Phone number field	Integer < 15 digits	Integer > 0 and confirm via text message



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- User Story #10**

<b>User Story ID</b>	US #10
<b>User Story Name</b>	Payment using loyalty points
<b>Actors</b>	Client
<b>Description</b>	<p>As a client</p> <p>I'd like to be able to use my loyalty points.</p> <p>So that I can pay for an order.</p>
<b>Per condition</b>	
<b>Post condition</b>	
<b>Acceptance Criteria</b>	<p><b>Given</b> I'm a logged-in user.</p> <p><b>When</b> I click on the "Loyalty points" button.</p> <p><b>Then</b> the system subtracts the value of the points from the cost of the order.</p>

- Scenarios**

#### Normal Scenario

Actor Action	System Response
1- User chooses to pay using loyalty points.	
	2- System subtracts the value of the points from the cost of the order

#### Exceptional Scenario

Actor Action	System Response
1- User chooses to pay using loyalty points.	
	2- System rejects the order if the user enters points greater than the points s/he owns.

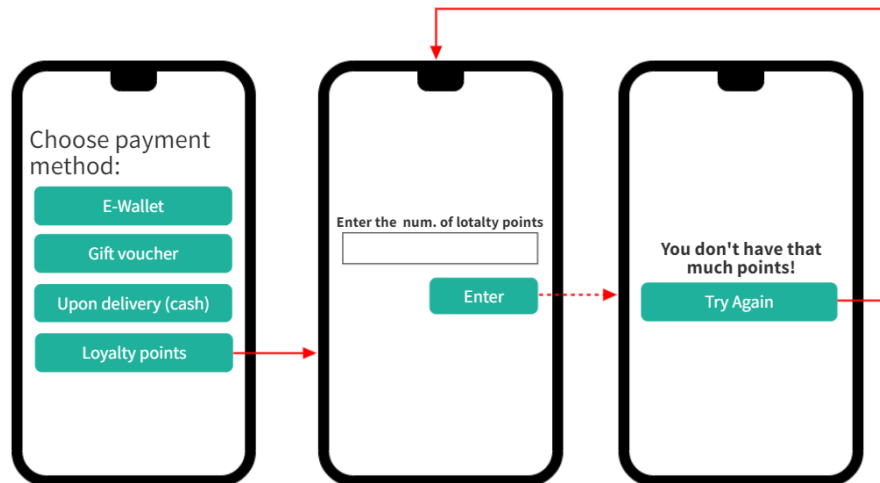


# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- Screen Design



- Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Order info	Text < 1000 Characters	Structured Text

- User Story #11

User Story ID	US #11
User Story Name	Cancel Order
Actors	Client
Description	As a client I'd like to be able to see my undelivered orders' list. So that I can cancel and order.
Per condition	
Post condition	
Acceptance Criteria	Given I'm a logged-in user. When I click on the "Cancel order" button. Then the system cancels the order.



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- Scenarios

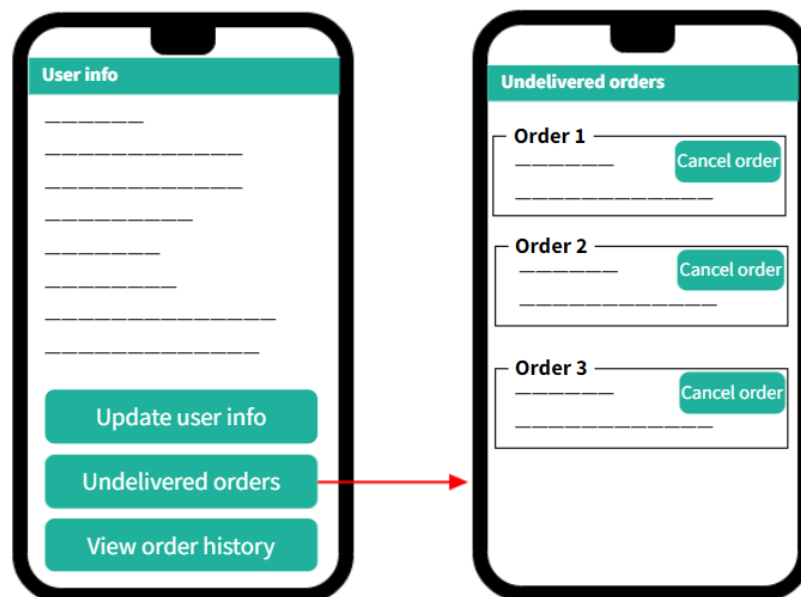
#### Normal Scenario

Actor Action	System Response
1- User chooses to see undelivered items.	
2- User chooses cancel order.	
	3- System cancels the order.
	4- In case of paying by E-wallet the total cost will be returned as loyalty points.

#### Exceptional Scenario

Actor Action	System Response
1- User chooses to see undelivered items.	
2- User chooses cancel order.	
	3- System rejects the demand if 24 hours have passed since making the request.

- Screen Design





# CS251: Phase 1 – Above Minimum

## Project: Toffee System

## Software Requirements Specifications

- **Data Dictionary:**

Element Label	Type/Length	Data Validation / Business Rule
Order info	Text < 1000 Characters	Structured Text

- **User Story #12**

<b>User Story ID</b>	US #12
<b>User Story Name</b>	Re-order
<b>Actors</b>	Client
<b>Description</b>	As a client I'd like to be able to see my orders' history. So that I can re-order a previous order.
<b>Per condition</b>	
<b>Post condition</b>	
<b>Acceptance Criteria</b>	Given I'm a logged-in user. When I click on the "Re-order" button. Then the system re-orders the chosen order.

- **Scenarios**

### Normal Scenario

Actor Action	System Response
1- User chooses to see orders' history.	
2- User chooses Re-order.	
	3- System Re-orders the order.



# CS251: Phase 1 – Above Minimum

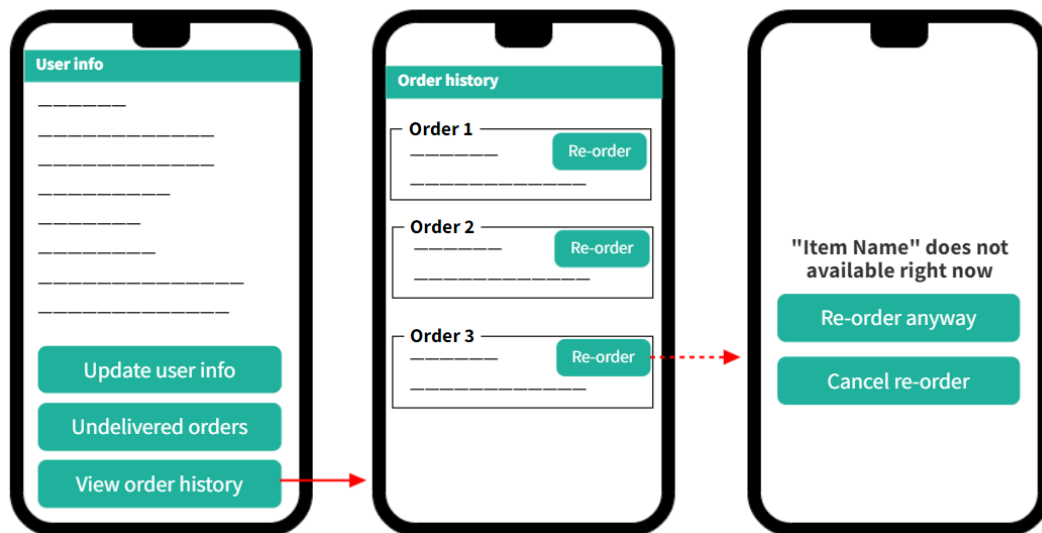
## Project: Toffee System

### Software Requirements Specifications

#### Exceptional Scenario

Actor Action	System Response
1- User chooses to see orders' history.	
2- User chooses Re-order.	
	3- System notifies the user if the ordered item is unavailable.

- Screen Design



- Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Order info	Text < 1000 Characters	Structured Text





# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- **User Story #13**

<b>User Story ID</b>	US #13
<b>User Story Name</b>	Update info
<b>Actors</b>	Client
<b>Description</b>	As a client I'd like to be able to see my info. So that I can update it.
<b>Per condition</b>	
<b>Post condition</b>	
<b>Acceptance Criteria</b>	Given I'm a logged-in user. When I click on the "Update info" button. Then the system displays my update info page.

- **Scenarios**

#### Normal Scenario

Actor Action	System Response
1- User chooses update user info.	
	2- System displays his/her update info page.

#### Exceptional Scenario

No exceptional scenario for this user story.

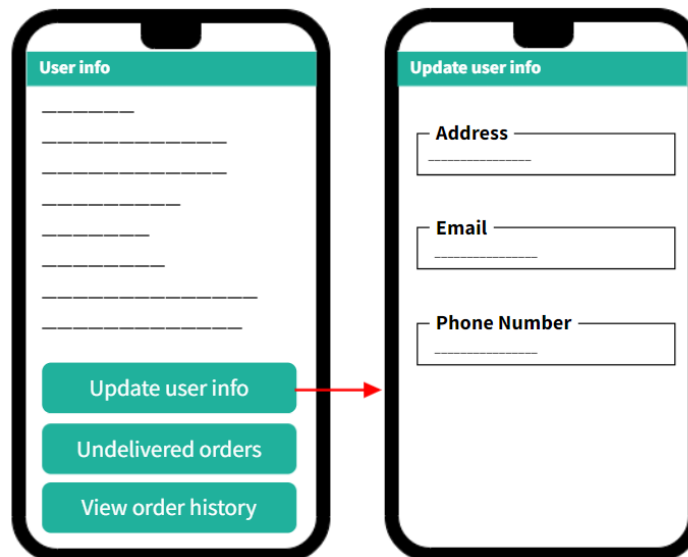


# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- Screen Design



- Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Address field	Text < 1000 Characters	Structured Text
Email field	Text < 100 Characters	Structured Text
Phone number field	Integer < 15 digits	Integer > 0 and confirm via text message



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- **User Story #14**

<b>User Story ID</b>	US #14
<b>User Story Name</b>	Contact us
<b>Actors</b>	Client
<b>Description</b>	<b>As a client</b> I'd like to be able to contact the system. <b>So that</b> I can make inquire about something.
<b>Per condition</b>	
<b>Post condition</b>	
<b>Acceptance Criteria</b>	<b>Given</b> I'm a logged-in user. <b>When</b> I click on the "Contact us" icon. <b>Then</b> the system displays contact us page.

- **Scenarios**

#### Normal Scenario

Actor Action	System Response
1- User chooses "Contact us" icon.	
	2- System displays contact us page.

#### Exceptional Scenario

No exceptional scenario for this user story.

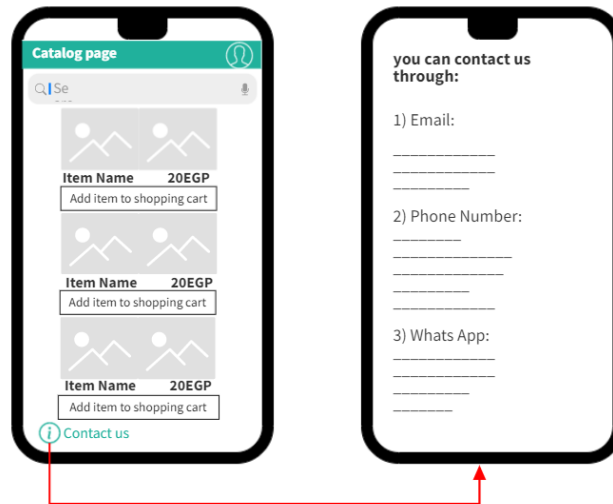


# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- Screen Design



- Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Email	Text < 1000 Characters	Structured Text
Phone number	Integer < 15 digits	Integer > 0
WhatsApp	Integer < 15 digits	Integer > 0



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- User Story #15**

<b>User Story ID</b>	US #15
<b>User Story Name</b>	Add new item
<b>Actors</b>	Administrators
<b>Description</b>	As an administrator I'd like to be able to update the catalog. So that I can add new item into it.
<b>Per condition</b>	
<b>Post condition</b>	
<b>Acceptance Criteria</b>	Given I'm an administrator and I'm on my home page When I click on the "Add new item" button. Then the system displays "Add new item" page.

- Scenarios**

#### Normal Scenario

Actor Action	System Response
1- Administrator clicks on "Add new item" button.	
	2- System displays "Add new item" page.
3- Administrator fills in new item's data.	
4- Administrator clicks on "Save" button.	
	5-System saves the new item in the database.

#### Exceptional Scenario

No exceptional scenario for this user story.



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- Screen Design



- Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Image field	Text < 1000 Characters	Structured Text
Name field	Text < 1000 Characters	Structured Text
Category field	Text < 1000 Characters	Structured Text
Brand field	Text < 1000 Characters	Structured Text
Price field	Text < 1000 Characters	Structured Text
Description field	Text < 1000 Characters	Structured Text



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

## Software Requirements Specifications

- User Story #16**

<b>User Story ID</b>	US #16
<b>User Story Name</b>	Update item's info
<b>Actors</b>	Administrators
<b>Description</b>	As an administrator I'd like to be able to update an item. So that I can make changes into it.
<b>Per condition</b>	
<b>Post condition</b>	
<b>Acceptance Criteria</b>	Given I'm an administrator and I'm on my home page When I click on the "Update item's info" button. Then the system displays the list of items.

- Scenarios**

### Normal Scenario

Actor Action	System Response
1- Administrator clicks on "Update item's info" button.	
	2- System displays "Items" page.
3- Administrator fills in the new info of the item or cancel the item.	
4- Administrator clicks on "Update" button.	
	5-System saves the new info in the database.

### Exceptional Scenario

No exceptional scenario for this user story.



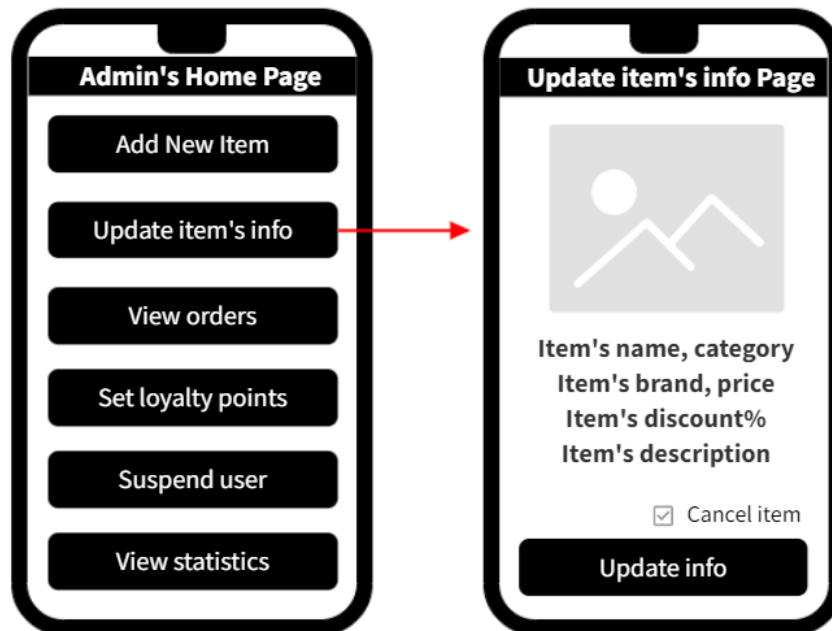


# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- Screen Design



- Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Name field	Text < 100 Characters	Structured Text
Category field	Text < 100 Characters	Structured Text
Brand field	Text < 100 Characters	Structured Text
Price field	Integer < 5 Digits	Integer > 0
Discount field	Integer < 3 Digits	0 <= Integer < 100
Description field	Text < 1000 Characters	Structured Text



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- **User Story #17**

<b>User Story ID</b>	US #17
<b>User Story Name</b>	View Orders
<b>Actors</b>	Administrators
<b>Description</b>	As an administrator I'd like to be able to See orders. So that I can take different actions.
<b>Per condition</b>	
<b>Post condition</b>	
<b>Acceptance Criteria</b>	Given I'm an administrator and I'm on my home page When I click on the "View orders" button. Then the system displays the list of orders.

- **Scenarios**

#### Normal Scenario

Actor Action	System Response
1- Administrator clicks on "View orders" button.	
	2- System displays "Orders" page.

#### Exceptional Scenario

No exceptional scenario for this user story.

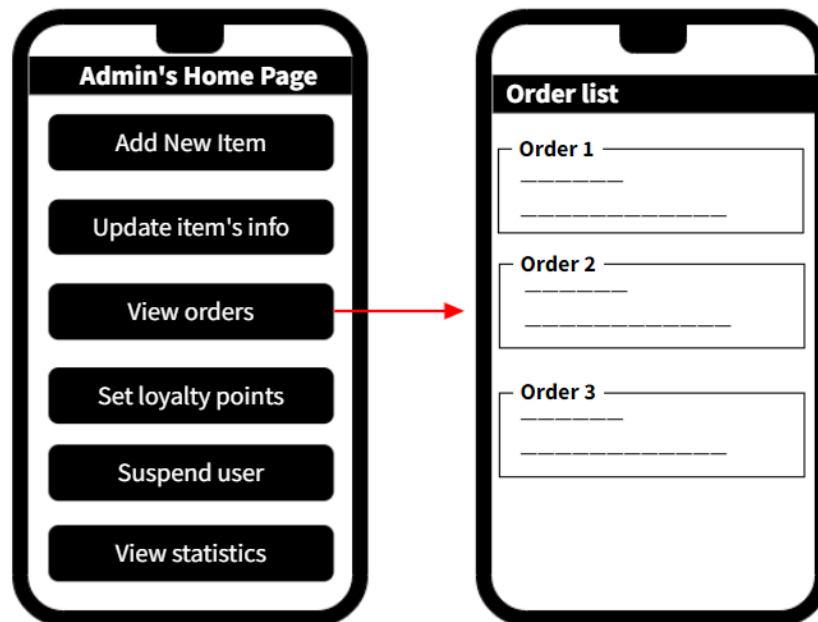


# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- Screen Design



- Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Order info	Text < 1000 Characters	Structured Text



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- **User Story #18**

<b>User Story ID</b>	US #18
<b>User Story Name</b>	Set Loyalty Points
<b>Actors</b>	Administrators
<b>Description</b>	<b>As an administrator</b> <b>I'd like</b> to be able to Set loyalty points. <b>So that</b> users can use it to pay for orders.
<b>Per condition</b>	
<b>Post condition</b>	
<b>Acceptance Criteria</b>	<b>Given</b> I'm an administrator and I'm on my home page <b>When</b> I click on the "View orders" button. <b>Then</b> the system displays the list of orders.

- **Scenarios**

#### Normal Scenario

Actor Action	System Response
1- Administrator clicks on "Set Loyalty Points" button.	
	2- System displays "Set Loyalty Points" page.
3- Administrator Sets the points for each payment method.	

#### Exceptional Scenario

No exceptional scenario for this user story.



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- Screen Design



- Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
E-wallet field	Integer < 3 Digits	0 <= Integer < 100
Cash field	Integer < 3 Digits	0 <= Integer < 100



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- User Story #19

User Story ID	US #19
User Story Name	Suspend User
Actors	Administrators
Description	<p>As an administrator</p> <p>I'd like to be able to suspend a user.</p> <p>So that s/he can't use the store for a specific time.</p>
Per condition	
Post condition	
Acceptance Criteria	<p><b>Given</b> I'm an administrator and I'm on my home page</p> <p><b>When</b> I click on the "Suspend user" button.</p> <p><b>Then</b> the system asks me to enter the Email of this user to suspend him/her.</p>

- Scenarios

#### Normal Scenario

Actor Action	System Response
1- Administrator clicks on "Suspend user" button.	
	2- System asks the admin to enter the email of the required user.
3- Administrator enters the email and then clicks "Suspend" button.	
	4-System suspends this user.



# CS251: Phase 1 – Above Minimum

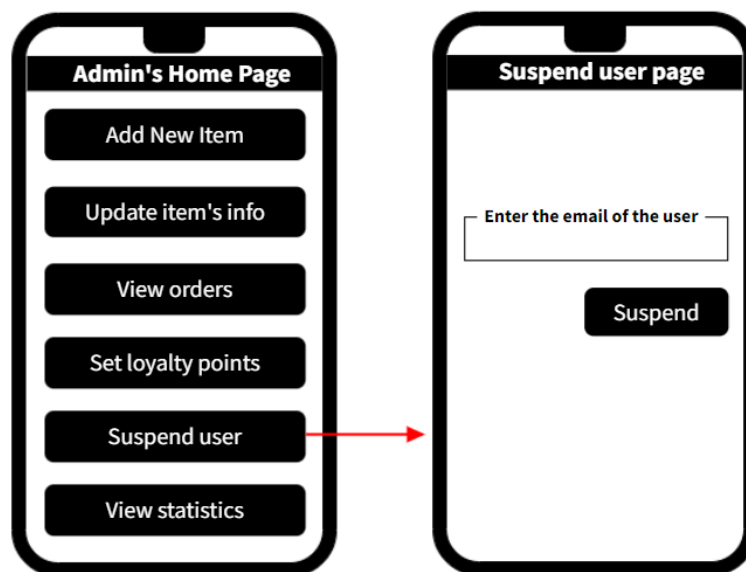
## Project: Toffee System

### Software Requirements Specifications

#### Exceptional Scenario

Actor Action	System Response
1- Administrator clicks on “Suspend user” button.	
	2- System asks the admin to enter the email of the required user.
3- Administrator enters the email and then clicks” Suspend” button.	
	4-System rejects the suspension if the email doesn’t exist in the system.

- Screen Design



- Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
E-mail field	Text < 1000 Characters	Structured Text



# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- **User Story #20**

<b>User Story ID</b>	US #20
<b>User Story Name</b>	View Statistics
<b>Actors</b>	Administrators
<b>Description</b>	<p>As an administrator</p> <p>I'd like to be able see business statistics.</p> <p>So that I can determine if the system is profitable.</p>
<b>Per condition</b>	
<b>Post condition</b>	
<b>Acceptance Criteria</b>	<p><b>Given</b> I'm an administrator and I'm on my home page</p> <p><b>When</b> I click on the "View Statistics" button.</p> <p><b>Then</b> the system views all its statistics.</p>

- **Scenarios**

#### Normal Scenario

Actor Action	System Response
1- Administrator clicks on "View Statistics" button.	
	2- System views the business's statistics.

#### Exceptional Scenario

No exceptional scenario for this user story.



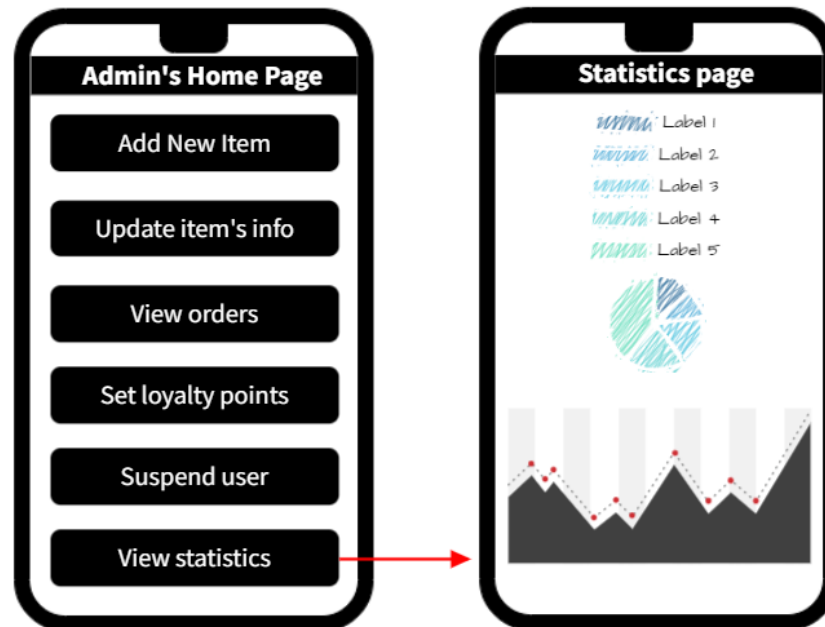


# CS251: Phase 1 – Above Minimum

## Project: Toffee System

### Software Requirements Specifications

- Screen Design



- Data Dictionary:

Element Label	Type/Length	Data Validation / Business Rule
Item name field	Text < 1000 Characters	Structured Text

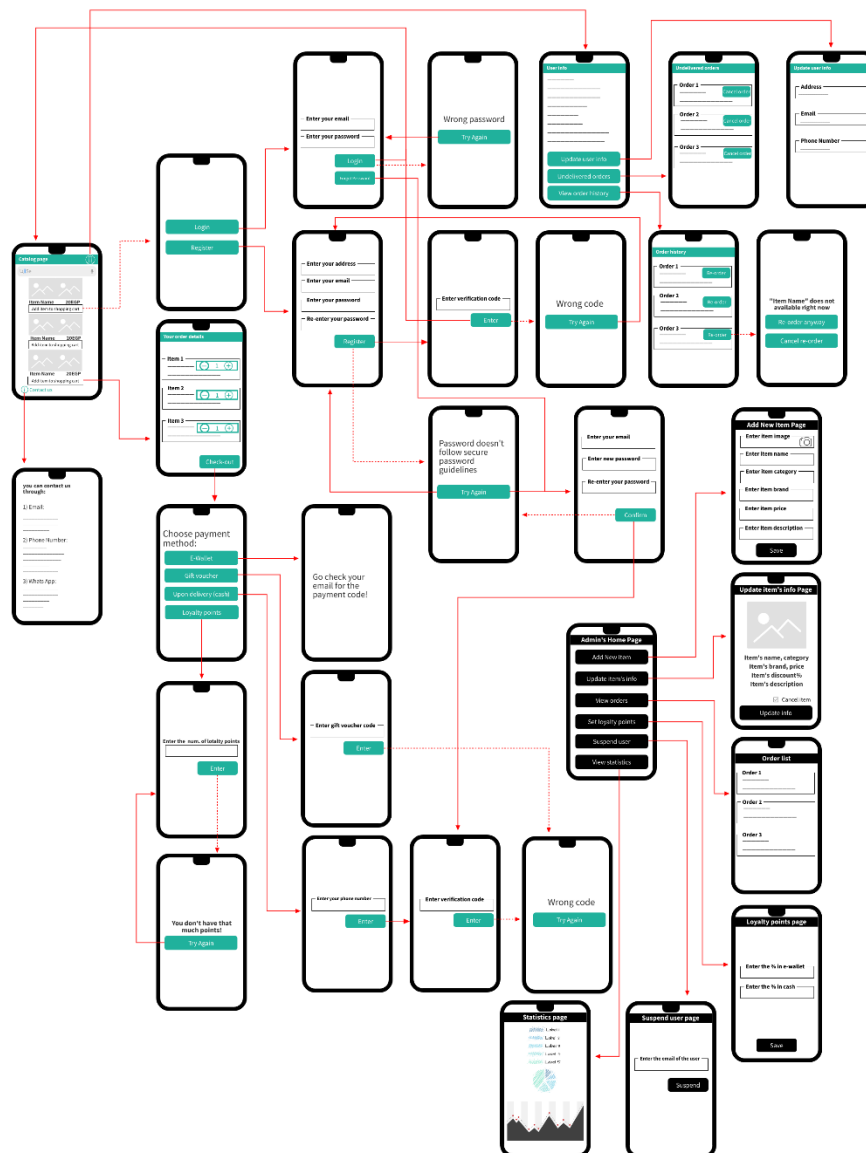


# CS251: Phase 1 – Above Minimum Project: Toffee System

## Software Requirements Specifications

### System Navigation Map

## Toffee System





# CS251: Phase 1 – Above Minimum

## Project: Toffee System

## Software Requirements Specifications

### Tools

- Visual Paradigm for Use Case Modeling.
- Mock Flow for System Navigation Map.

### Ownership Report

Student	Items he created
Amira Ashraf	Introduction, Use Case Model, Non-Functional Requirements and 7 user story.
Yehia Zakaria	Part of System Navigation Map, Functional Requirements and 7 user story.
Mahmoud Ali	Part of System Navigation Map, Document Purpose and Audience, and 6 user story.