

Al-Ahliya Amman University

Faculty of Information Technology

Department of Software Engineering

**Concorde Online Application**

**A Requirements Specification Document**

**Submitted for the Course of**

Requirements Engineering

By

HAZEM DOUDIN (201910799)

To

Dr. Qusai Shambour

**Summer Semester 2021/2022**

**Table of Contents**

1. [Introduction 3](#_Toc113239496)
   1. [Purpose of the system 3](#_Toc113239497)
   2. [Scope of the System 3](#_Toc113239498)
   3. [Objectives and success criteria of the project 4](#_Toc113239499)
   4. [Definitions , acronyms , and abbreviations 5](#_Toc113239500)
   5. [Overview 5](#_Toc113239501)
2. [Current System 5](#_Toc113239502)
3. [Purposed System 6](#_Toc113239503)
   1. [Over view 6](#_Toc113239504)
   2. [Functional Requirements 6](#_Toc113239505)
   3. [Non-functional requirement 8](#_Toc113239506)
      1. [Availability 8](#_Toc113239507)
      2. [Usability 8](#_Toc113239508)
      3. [Reliability 8](#_Toc113239509)
      4. [Performance 8](#_Toc113239510)
      5. [Portability 9](#_Toc113239511)
      6. [Security 9](#_Toc113239512)
      7. [Maintainability 9](#_Toc113239513)
      8. [Process requirements 9](#_Toc113239514)
      9. [External Requirement 9](#_Toc113239515)
4. [Prioritization and Release Plan 10](#_Toc113239516)
5. [System models 13](#_Toc113239517)
   1. [Use case description: 13](#_Toc113239518)
   2. [Use case model 15](#_Toc113239519)

**Introduction**

The idea came to develop our application because of the congestion in the roads and commercial areas , which led in some way to make people not like for come to our shops. From here came the idea for building an application to make the shopping process very easily , The (COA) application allows users to access for buy and view the clothes to be purchased with the ability to display the available and this is done through a beautiful and simple interface for customers , so that everyone can deal with the application without facing any difficulty .

The idea of the (COA) application connects the store and customers with a mobile application .

Which has many features that serve both (customer and our employees).

**Purpose of the system**

Making the shopping process easy and available at all times , which helps us in maintaining old customers and attracting new customers .

By Offering The Following Characteristics

* Buy clothes online .
* View the clothes that are available for purchase .
* Editing and canceling the purchase .

**Scope of the System**

Get the ideal mobile application for buying clothes and other accessories into showcasing items in style ,running promotion and exclusive offers providing smooth shopping experience which helps us to growing like never before .

**Objectives and success criteria of the project**

Customers who will use the application do not need to be trained to use the application , as it is easy to handle and can be used for all age group , as al the present time few people have little experience in using telephone devices in general .

Some of our (COA) features are :

1. Search : Allow the customer to search for clothing categories .

Clothing items :

* Shoes
* suits
* Accessories
* children clothes
* shirts
* pants

1. Basket: it Allow the customer to display the selected clothes with many options :

* Quantity display
* Offer price

1. Payment : The customer is asked to enter the credit card details .
2. Cancelling : Allow the customer to cancel the purchase for the items.
3. Items alert : Alerts sent to the user about the arrival of new products .

**Definitions , acronyms , and abbreviations**

|  |  |
| --- | --- |
| customer | a person who buys goods or services from a shop |
| items alert | are emails or text messages letting you know about the latest clothes we're adding to our inventory based on what you're looking for |
| accountant staff | Persons responsible for collecting money and sending order information to delivery companies |
| customer service | the assistance and advice provided by a company to those people who buy or use its products or services. |

**Overview**

The (COA) System project is an implementation of a general online website and mobile application for buy clothes which helps the customer to search for different items from clothes like jackets , pants , shirts , and other items with the ability to display the prices of the items .

**Current System**

In the current system , the customer needs a lot of time to reach our store because of the increases in the number of people and although a lot of crowding , which led to a weakness in the shopping process so that the customer no longer likes the idea of traditional shopping .

In our shop … we use records and purchase records from many factories with records of purchase invoice in an automated way with the need for many employees , including to account for the goods and other part to serve the customer in shopping process .

**The Disadvantages of this system:**

* The need for a lot of employees .
* The need to pay shop related bills such as rent and tax .

**Purposed System**

In the new system , the customer does not need to waste time or make effort because the application provided him with a beautiful interface to deal through which he can choose the clothes to be purchased and then choose the method of payment and upon confirmation of the order , the customer receives the desired order through the delivery company .

**Over view**

The over view presents a functional requirements of the system .

**Functional Requirements**

**Req1 :** The (COA) system shall provide the customer with the ability to register by entering his user name and password .

* If the customer enters an incorrect user name or password , he/she get an error message .
* After log in the customer shall move to the home page .
* The password must contain letters and numbers and not exceed 10 digits .
* User name must contain only letters and not exceed 10 digits .

**Req2 :** The (COA) shall provide the customer with the ability to view the clothes .

* Show available clothes .
* View an offered clothes .

**Req3** : The system shall provide the customer with the ability to search for available clothes .

* Display the categories clothes list for the customer .
* Customer can search for an items by the size and colors .

**Req4 :** The system shall provide the customer with the ability to pay with visa card and PayPal .

**Req5** : The system shall provide the customer with the ability to modify his / her order of selected clothes .

* The customer can add new items in the same order .
* The customer can remove items in the same order .
* The customer can cancel his / her order .

**Req6 :** The system shall provide the customer with the ability to write reviews and rate about the services .

**Req7 :** The system shall provide the accountant staff with the ability to view customers information.

(Customer full-name , customer phone number , customer invoice) .

**Req8 :** The system shall provide the accountant staff with the ability to send customer information to the delivery company .

**Req9** : The system shall provide the accountant staff with the ability to send order number to the delivery company .

**Req10 :** The system shall provide the accountant staff with the ability to send a message to the customer if the bank card does not have enough balance .

**Req11 :** The system shall provide the customer service with the ability to send alert message to the customer to notify them about new items .

**Non-functional requirement**

**Availability**

**Req1:** The system must be available 12 hours per a day.

**Usability**

**Req1 :** the system should be simple to learn and operate , the user shall not need more than 5 minutes to use the application .

**Reliability**

**Req1 :** the mean time between failures if it happened should not be less than 7 months .

**Performance**

**Req1:** Any page of the application should not take more than 10 seconds

to display.

**Req2:** The application shall be able to display 15 item per second in peak load.

**Portability**

**Req1:** The application shall be able to run on iOS and Android devices

**Security**

Req1 :the application should be secured by username and password.

Req2 :the application shall send a message to the customer for confirming the purchase .

**Maintainability**

In case of failure that leads the system to outage , the mean time to repair The system should not be more than 2 hours .

**Process requirements**

**Req1:** The application should be developed and deployed within the identified budget of 5 thousand dollars.

**Req2:** The application should be up and running in the user’s production environment by 1st of August .

**External Requirement**

A procedure must be defined and supported in the software that will allow users to inspect personal data and to correct any errors in that data.

**Prioritization and Release Plan**

1. modifiability for the order .
2. Customer registration .
3. availability for the clothes .
4. cancelling the order .

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| value | R1 | R2 | R3 | R4 |
| R1 | **1** | **3** | **5** | **7** |
| R2 | **1/3** | **1** | **1/7** | **1/5** |
| R3 | **1/5** | **3** | **1** | **7** |
| R4 | **1/7** | **5** | **1/3** | **1** |
| TOTAL | **1.67** | **12** | **6.47** | **15.2** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cost | R1 | R2 | R3 | R4 |
| R1 | **1** | **1/7** | **1/5** | **3** |
| R2 | **7** | **1** | **1/3** | **5** |
| R3 | **5** | **3** | **1** | **1/7** |
| R4 | **1/3** | **1/5** | **7** | **1** |
| TOTAL | **13.33** | **4.34** | **8.53** | **9.14** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| value | R1 | R2 | R3 | R4 | Relative value |
| R1 | **0.59** | **0.25** | **0.77** | **0.46** | **0.51** |
| R2 | **0.19** | **0.08** | **0.02** | **0.01** | **0.07** |
| R3 | **0.11** | **0.25** | **0.15** | **0.46** | **0.24** |
| R4 | **0.08** | **0.41** | **0.05** | **0.06** | **0.15** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| COST | R1 | R2 | R3 | R4 | Relative cost |
| R1 | **0.07** | **0.03** | **0.02** | **0.32** | **0.11** |
| R2 | **0.52** | **0.23** | **0.03** | **0.54** | **0.33** |
| R3 | **0.37** | **0.69** | **0.11** | **0.01** | **0.29** |
| R4 | **0.02** | **0.04** | **0.82** | **0.10** | **0.24** |

|  |  |
| --- | --- |
| **Relative cost** | **Relative value** |
| **0.11** | **0.51** |
| **0.33** | **0.07** |
| **0.29** | **0.24** |
| **0.24** | **0.15** |

**System models**

**Use case description:**

|  |  |
| --- | --- |
| **ID :** | **1** |
| **Title :** | Register into application |
| **Description :** | The customer have accesses the application then he/she select “Register Now ” button Then he/she log into his/her Account |
| **Primary Actor :** | Customer |
| **Preconditions :** | Customer had downloaded the application |
| **Post conditions :** | Log in successfully to account |
| **Main success scenario :** | 1. the customer select “Register Now” button from the main screen. 2. The application shall move the customer to “Registration screen”. 3. Customer have to fill his/her information in the “Registration screen ” by adding his/her “user name” and “password” and “Email”. 4. Customers have to submit the filling information by click on “submit ” button . 5. the application registered the customers . 6. the customer log into his/her account by “user name” and “password”. |
| **Extensions :** | 3a the password not valid.  3a1. The system display an error message show that the selected password not correct and provides the reason and how to rectify it  3b the user name not valid.  3b1. The system display an error message show that the selected username not correct and provides the reason and how to rectify it |

|  |  |
| --- | --- |
| **ID :** | **2** |
| **Title :** | Search for available clothes |
| **Description :** | After ensuring that the customer have successfully log into their account the application provide “category screen” for the customer to search for available clothes , customer can search for available clothes by “color” and “size” by click on “search now” button. |
| **Primary Actor :** | customer |
| **Preconditions :** | The customer successfully logged into their account. |
| **Post conditions :** | The application provide the customer with category screen that helps the customer to search for the clothes . |
| **Main success scenario :** | 1.The customer select search for available clothes from the category screen.  2. the system display the available clothes.  3. the customer click in the selected clothes that he want  The system display the detail for the selected item like size and color |
| **Extensions :** | none |

**Use case model**

