

Software Requirements Specifications

For

Online Shopping Website" Top Choice"



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Table of Contents:

1.	Introduction
	1.1 purpose
	1.2 Scope
	1.3 Technologies used
	1.4 Intended Audience5
	1.5 Overview of the document
2.	Overall Description5
	2.1 Product Perspective
	2.2 Product Functions
	2.3 User Characteristics
	2.4 Principal Actors
	2.5 General Constraints
	2.6 Assumptions and Dependencies
3.	Specific Requirements
	3.1 Functional Requirements
	3.1.1 Registration
	3.1.2 Login9
4.	Interface Requirements
5.	System interface
6.	Diagrams
	6.1 Use case diagram
	6.2 Sequence diagram
	6.3 Sequence diagram
	6.4 Class diagram
7.	Use case scenario's
8.	Link for our scrum video

1. Introduction

Top Choice is online shopping application which is to encourage customers to shop virtually using the Internet and to purchase goods and this Online System with different features has been launched to make the online shopping experience smooth and easy to use.

1.1 Purpose

The purpose of this document is to represent a complete overview of how the online application. The idea of the system, the system features, the interface of the system, the targeted audience, the established constraints, how the system is going to react with the user all will be explained in this document.

1.2 Scope

- This system firstly is allowing users to create accounts.
- users could add the products they want to buy immediately or later on their cart.
- This system gives the user the option when he goes to check to pay at the delivery with cash, or he can pay online with credit card.
- users are allowed to have their product back to the store in specific period which is in days.
- this system will facilitate a page to allow the user to his recent products which he has bought it before.
- The objective of the project is to make a web application to purchase items in an existing shop. To build such an application complete web support, need to be provided. A complete and efficient web application which can provide the online shopping experience is the basic objective of the project.
- 1. In the first delivery, the application must be able to add an item to the shopping cart and case.
 - Browse categories on the home page
 - Select a category and browse through the items
 - View more information about an item.
 - Add an item to the shopping cart.
 - Continue shopping or go to checkout for the item.
- 2. The application must be able to check out the items in the cart.

- Check out the items.
- Continue shopping.
- Delete the items to update the shopping cart.
- 3. The application asks for user authentication before checking out.
 - Add items to the cart.
 - Check out the items
 - Log in with a valid username and password.
- 4. The application must bring up the order form for the check out.
 - Complete the information on the order form.
 - Place the order.

1.3 Technologies used

System Tools:

Various system tools such as programming languages, frameworks and libraries have been used in developing both the front end and the back end of the project are being discussed in this section.

- HTML to format a text document on the web.
- CSS (style sheet language)
- JavaScript
- Python
- Python GUI

1.4 The Intended Audience

The target audience are the people who may actually turn into customers and can also be defined as the people who may be attracted to your marketing asset. System is worth using by an audience that is interested on buying online products and get well use from the facilities offered in such a case. Facilities are: Saving time, saving money, comfort circumstances, selecting the best offer, safety of money transactions and etc. As the document is useful to:

• Developer: to make it easy to implement

- Software Tester: To be able to create and validate the proper test cases for the device in order to increase its consistency.
- The customer: If the project team's requirements shift, he could follow up with them, and he might request more features for online shopping to make it more effective.
- Software architect: to be able to develop and refine the system architecture as a software engineer.
- Scrum Master: To be willing to have a clear schedule for working on the project and to put together a good team.

1.5 Overview of the document

The online shopping project organize the products record and the other information about the customers. How customers can buy products from website can be recognized from their username and a registration page with delivery date that the customers want. The application's key idea is to encourage consumers to shop virtually using the Internet and to purchase goods and papers. People from all types of social interaction will need to conduct their everyday activities through the internet in the future. So, to help people avoid the inconvenience of purchasing everyday needs and other essential items from a supermarket far away from home, this Online System with different features has been launched to make the online shopping experience smooth and easy to use. Online classifieds are used to provide the customers with huge amount of information. An easy way to buy a product just sitting in front of your computers by registering into our site. This is to facilitate all people who are busy with their works and have no time to get their desired goods. We are here to provide you all the best and suitable places for sale. If once you register into our site, then you are benefitted with our latest updates of the sales!

This is used to advertise the products with images. once can get the desired product with different rates and quality. Consumers can also have a chance of introducing their products not only in a single place but throughout the world using online classifieds. This system enables users to communicate directly with the system simply by sitting in front of a computer or using a smartphone. The specifications of the proposed project framework are thoroughly and formally defined in this paper. It provides an overview of the user experience, documentation, and specifications, as well as a list of usable and non-functional requirements.

2. Overall Description:

Top Choice application enables users to set up online shops, customers to browse through the shops, and a system administrator to approve and reject requests for new shops and maintain lists of shop categories. Also, the developer is designing an online shopping site to manage the items in the shop and also help customers to purchase them online without visiting the shop physically. The online shopping system will use the internet as the sole method for selling goods to its consumers.

2.1 Product Perspective:

This product aimed toward a person who do not want to visit the shop as he might don't get time for that or might not interested in visiting there and dealing with lot of formalities.

2.2 Product Functions:

Top Choice should support this use case.

2.3 User Characteristics:

User should be familiar with the terms like login, register, order system etc.

2.4 Principal Actors:

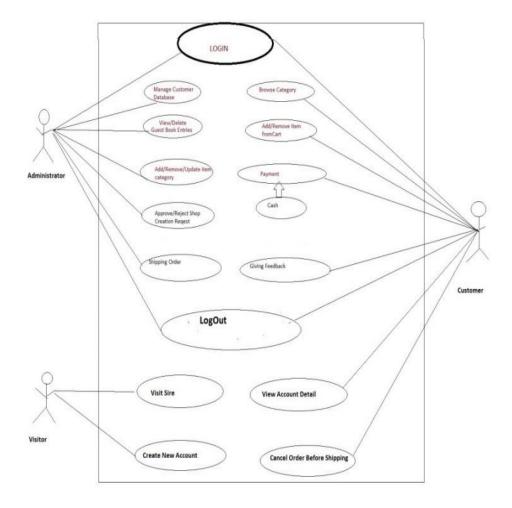
2 Principal Actors are Customer, Creditors, and Employees.

2.5 General Constraints:

A full internet connection is required for Top Choice.

2.6 Assumptions and Dependencies:

Working of Top Choice need Internet Connection



3. Specific Requirements:

3.1 Functional Requirements:

This section provides requirement overview of the system. Various functional modules that can be implemented by the system will be.

- **3.1.1 Registration** If customer wants to buy the product, then he/she must be registered, unregistered user cannot go to the shopping cart.
- **3.1.2 Login** Customer logins to the system by entering valid user id and password for the shopping.
- **3.1.3 Payment** in this system we are dealing the mode of payment by Cash. We will extend this to credit card, debit card etc. in the future.
- **3.1.4 Logout** After ordering or surfing for the product customer has to logout.

3.1.5 Report Generation After ordering for the product, the system will be sent one copy of the bill to the customer's Email-address and another one for the system data base.

3.2 Non-Functional Requirements:

Nonfunctional requirements describe the general characteristics of our online shopping system. Non-Functional requirements are also known as quality attributes. Following Non-Functional Requirements will be there in the insurance to the internet:

- **Extensibility**: Ensuring that the platform is extended in such a way to make future development feasible.
- **Speed of web services:** Defining how long web services will take to provide a response.
- Accessibility: Ensuring that the platform meets the basic accessibility standards throughout.
- Reliability and availability: Defining the agreed uptime of the platform under normal conditions. The application should be accessible from anywhere in the world via Internet. The application should guarantee its availability to the users. The maximum downtime due to any failure (server crash or failure due to code) must not be more than a day.
- Security: Security of shopping is very important that customer can rely on it.
- **Privacy:** meeting basic requirements for our online website.
- Extensibility: ensuring that the platform is extended in such a way to make future development feasible.
- **Scalability and performance:** ensuring that the system can scale to meet expected traffic and order volume at normal time.

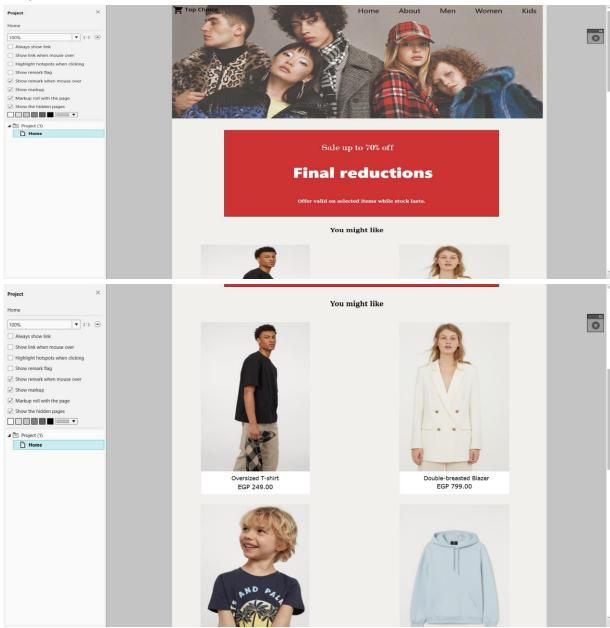
4. Interface Requirement:

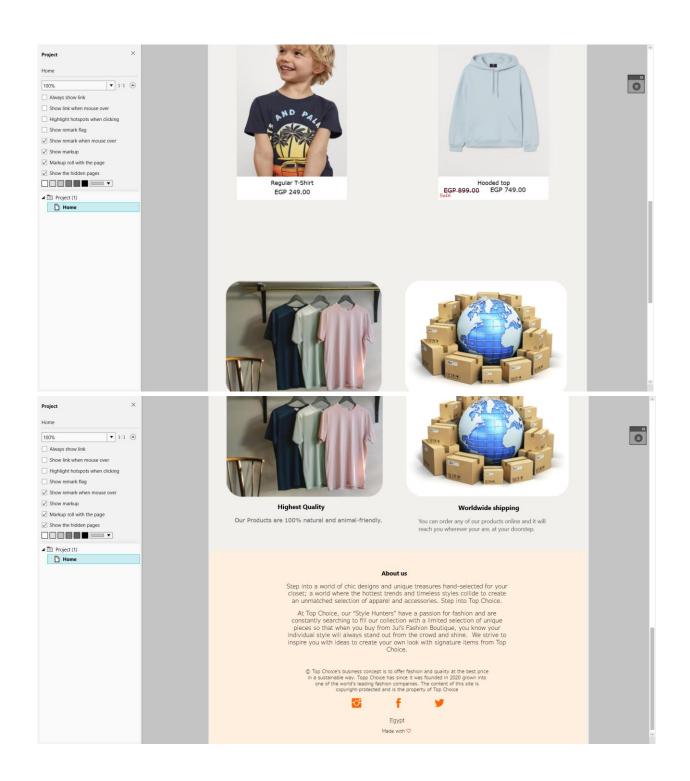
Various interfaces for the product could be

- 1) Login Page
- 2) Registration Form
- 3) There will be a screen displaying information about products that the shop has.
- 4) If the customers select the buy button, then another screen of the shopping cart will be opened.

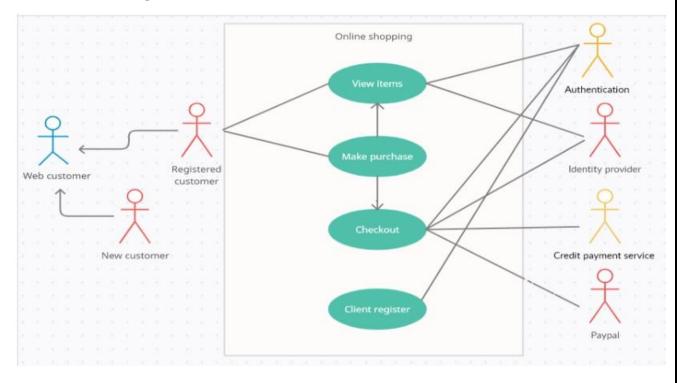
5). After ordering for the product, the system will be sent one copy of the bill to the customer's Email address

5. System Interface:

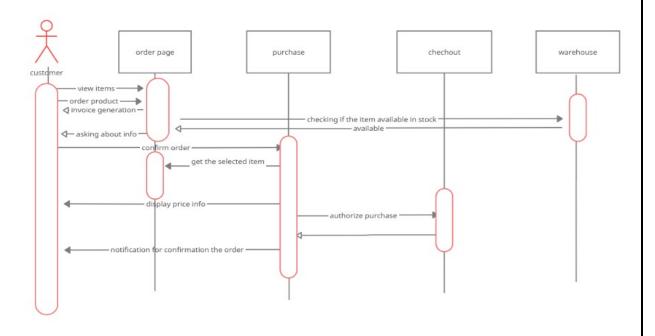




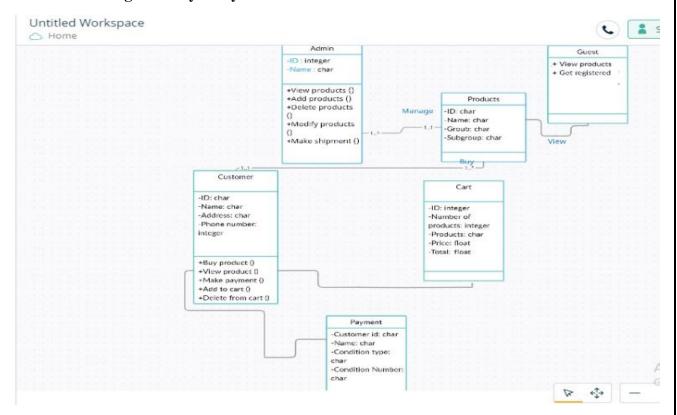
> 6.1 Use case diagram.



> 6.2 Sequence diagram for the main use cases.



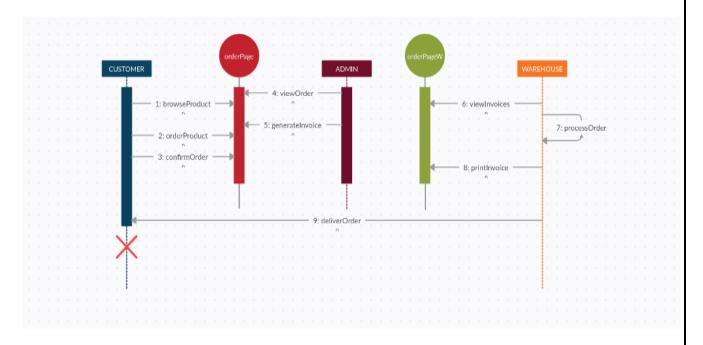
▶ 6.3 Class Diagram for your system



Description Of Sequence Diagram:

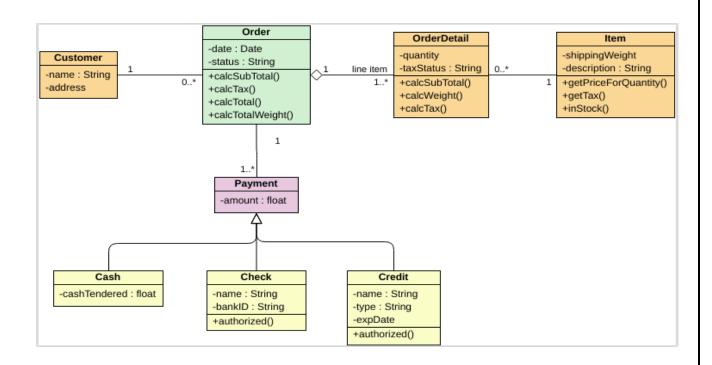
- 1) first customer browses the product from the order page
- 2) after choosing product customer order the product
- 3) then customer confirm the order
- 4) after that admin see the order ordered by the customer
- 5) admin generates the invoice details of that product
- 6) In data warehouse, view the invoice generated by admin about order
- 7) Then the people in warehouse process the order
- 8) after that print the invoice details

9) Then the order will be delivered to the customer



Class Diagram for Online Ordering System

- **➤** Online ordering system contain following classes:
- > Customer, Order, Order details, Item, Payment, Cash, Check, Credit.
 - Customer can order any number of orders
 - Each order contains order details.
 - In one order we can order any number of Items.
 - Payment can be done in three ways, they are cash on delivery, check method, and using credit card.



7. Use Case Scenarios

• Use case Name: Authentication.

Test Case ID: 1

Test Priority (Low/Medium/High): High

Description: Test the website login process. Users access

their accounts using their username, valid pin code.

Pre-conditions: Valid credit username shall be entered with valid password.

website login page shall be displayed.

Step 1	Action	Expected Result	Actual Result	Status (Pass/Fail)	Actors	Comment
	username into the	•	User is navigated to his/her profile with valid login	pass	customers, creditors, and employees	
3	The system checks the username validity		Successfully logged in message was displayed			
4	User should enter a valid password (pin).		System displays user's account profile page			

Post-condition:

User is validated with data and successfully login to account. System displays customer's account profile page with providing all user information protected and secured.

• Use case Name: Identity provider

Test Case ID: 2

Test Priority (Low/Medium/High): High

Description: provide identity for each customer who

use login process on the website.

Pre-conditions: After the user display his information, he should get valid ID with checking validation process for his profile.

Step 1	Action	Expected Result	Actual Result	Status (Pass/Fail)	Actors	Comment
	username into the	- C	User is navigated to his/her profile with valid login		customers, creditors, and employees	
3	The system checks the	System should display the ID for the customer.	Successfully ID for the user was displayed			
		A page with information and identity about the user should be provided.	* *			

Post-condition:

User is validated with data and successfully login to account so he can buy products. System displays user account profile page with each valid ID for every user.

• Use case Name: Checkout balance process

Case ID: 3

Test Priority (Low/Medium/High): High

Description: Test the user account checking balance

process

Pre-conditions: user enter card and access account via valid login, and choose option check balance from their account.

C4	A -42	Expected Result	Actual Result	Status (Para/Fail)	Actors	Comment
Step	Action			(Pass/Fail)		
1						
_	Users enter valid card to their account		Users see the balance on the screen of website and view of balance is done successfully	pass	customers, creditors, and employees	
	Users enter card password number	No balance to view	No balance in the account	pass		
	Users choose check balance option from the website					
	If there is no balance in the account of user					

Post-condition:

Balance is viewed to user, and a screen view user balance successfully displayed. System saves checking balance operation in history section.

• Use case Name: Credit payment service.

Test Case ID: 4

Test Priority (Low/Medium/High): High

Description: Test the website withdrawing money

process

Pre-conditions: Customer has a valid credit which entered in the website. Customer shall be logged to his account. Withdraw Money button shall be pressed.

Step 1	Action	Expected Result	Actual Result	Status (Pass/Fail)	Actors	Comment
		User should be able to withdraw money from the website			customers, creditors, and employees	
	User enter amount of		System shows successful withdraw operation message	Pass		
	If there is no money to withdraw	No money to withdraw	No money to withdraw	Pass		

Post-condition:

Users withdraw money successfully and the amount of money is reduced from user balance. System saves withdrawing money operation in history section database.

• Use case Name: PayPal

Test Case ID: 5

Test Priority (Low/Medium/High): High

Description: Transferring money between two

accounts linked to the same ID and card.

Pre-conditions: user enter valid card with password and access account via valid login to the website for buying products and choose transfer money between two accounts option from "Paying options".

Step	Action	Expected Result	Actual Result	Status (Pass/Fail)	Actors	Comment
1						
2	users enter valid card with password	•	Buying products transfer money process is done successfully		customers, creditors, and employees	
3	Users enter amount of money to transfer between two accounts	instead, please input the account connected with	Cannot do transfer the money, please enter account linked to the card.	Pass		
	If user enter account not linked to the card					

Post-condition:

System transfers money from the first specified account to the second and balance of user is reduced because of the amount of money transferred.