

Abstract

The business-to-consumer aspect of electronic commerce (e-commerce) is the most visible business use of the World Wide Web. The primary goal of an e-commerce site is to sell goods and services online. This project deals with developing an ecommerce website for online shopping. It provides the user with a catalog of different product available for purchase in the store. In order to facilitate online purchase a shopping cart is provided to the user. The system is implemented using a 3-tier approach, with a backend SQL Server database, a middle tier apache server and a web browser as the front end client. In order to develop online shopping

application use HTML, CSS, JAVA Script, C#, server side scripting language ASP.Net

and relational database SQL Server. This is a project with the objective to develop a basic website where consumer is provided with a shopping cart application and also to know about the technologies used to develop such an application.

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Introduction

Purpose

The purpose of this SRS document is to provide a detailed overview of our Online shopping system, its parameters, functionalities and goals. This document describes the project's target audience and its user interface, hardware and software requirements. This document is intended for understanding the definition of requirements that are necessary for the development of the system. Shopping has long been considered as a refreshment by many. Shopping in online became a recreational activity of life. The reason of developing web based online shopping system is everyone walking down the street has some difficulties, also some people are so much busy and not able to go out for shopping, some don't like to shop in crowd. There is another reason that it's not possible to see all the product of a store, also its hazardous for both the customer and the seller. The world of software development their lots of improvement in this area and to reduce the complexity of people of life online shopping system development. Online shopping system is a virtual store on Internet where customer can browse the product and select the product of interest. The selected product may be collected in shopping cart. At checkout time the items in the shopping care will be presented as an order. At that time shipping information and payment method have to select to the customer. Finally, by confirming the order have to complete the shopping and the product will deliver to customer via currier, post office or by direct agent of company.

This document act as basis for:

- Needs to be satisfied in the architectural and detailed design of the Online shopping system Project.

- Needs to be satisfied in the verification, validation and acceptance testing for the online shopping project.

Objectives

The objective of the Shopping systems is to increase the point of customer choice, reduce time used in shopping and efficiency in buying product.

- To develop an easy way to use web based interface where users can search for product view the details of the product and order it without going to market.
- The searching product can be done by product category, manufacturer as well as latest product, view it purchase it become a convenient way for customer.
- Customer can add product to cart to purchase, delete the product from cart before selecting the final submission.
- A user can view the complete specification of the product with various images and also view the customer review the product.
- It minimizes the shopping time of customer, increase the point of choice. 2
- It also facilitates the service provider to know the current stats of market and take decision which product are selling more now a days and have to keep in store.

Intended Audience and Reading Suggestions

This document is intended to be read by the developer team, project, stakeholders, and users. This is technical document and terms should be understood by the customer. This SRS is designed for the persons present in this whole project so that they come to know about project and what to change in the project in future if want, such as

- **Developers:** As different modules of a project are developed by different members of a team. So to have knowledge of other modules of the project SRS are designed. So that an individual member of a team come to know about the whole modules of the project.
- **Project Managers:** Members who are going to manage this project must know about the project that's why this SRS is designed. So that the members can manage the project according to its design.
- **Marketing Staff:** What the developed software/project can do, what was its need, how

it can be helpful to the users all this information's are provided to the marketing staff through this SRS. Through that a good marketing can be provided to the project and its marketing price will be good.

- **Users:** Through this SRS the user come to know about the benefits of the project and how to gain full performance from the project.
- **Testers:** The different tests through which the software/project must undergo are described in SRS.

Project scope:

The people faces problem in shopping, they suffers from traffic and travelling in multiple shops of multiple brands and if they wanted any desire product then have to search in multiple shops, this make people frustrated and in case the item founded then its prize are high in cost. The scope of online shopping system is to facilitate user with shopping in hand, have various product of various brand with best price rates, the product are categorized. The specific product user wanted and is not visible in product then there is search bar where user can search any product by its name.

Following are the scope of the developed systems:

For Customer:

Online registration: Customer have to register to buy product online.

View Product: Customer can view product according to category, manufacturer and latest product. Select the items to cart, also can delete from cart before final submission, he can also view product details, shipping info and price that means all in invoice.

Shipping Information: Customer have to give the product delivery location.

Payment Method: Customer can select the payment method what is easy for him for payment the cost.

For admin:

Category: admin can add category, view, publish, unpublished, edit and delete category.

Manufacturer: admin can add manufacturer, view, publish, unpublished, edit manufacturer and delete manufacturer.

Product: admin can add product, view, publish, unpublished, edit manufacturer and delete product. Product delivery status: Admin can update sold product status.

Problem Description: Need of the application

There are large numbers of commercial Online Shopping websites offering large number of products tailored to meet the shopping interests of large number of customers. These online marketplaces have thousands of products listed under various categories.

Problems:

- Going from store to store and comparing products and prices is a challenging and time consuming procedure
- The quality of service is poor and most of the time, retailers aren't that much interested in customer because the retailer loses interest when the customer didn't choose any items and the retailer shows all stocks.
- To change your mind after a purchase is an issue, but to go through all the hassle of taking the product back to that store again. On top of that, that dread that you've already lost the receipt so there would be no hope for any returns.
- When it comes to occasion then there is too crowded out there. Shopping in malls gets a little overwhelming, especially with all the weekend hustle and bustle and in occasions.

- Confusion create in retail shopping because everything looks the same, each retail shop sells exactly the same item from the next, but different in price with blaming other retailer, so where's the luxury of diversity in this.

Solutions:

- The online shopping system provide the platform where anyone can purchase desire items from anywhere.
- Provide Interactive interface through which a user can interact with different areas of application easily.
- A search engine that provides an easy and convenient way to search for products specific to their needs.
- Provide Drag and Drop feature thereby allowing the user to add products to or remove products from the shopping cart by dragging the products in to or out of the shopping cart.
- If the product deliver has problem or defect in product, then the product will be return with no charges.
- Web-based stores are open 24/7; this means you can make purchases when you have the desire and spare time. Thus you can make purchases at any time of day and night.

Requirement Elicitation

Questionnaires:

Background:

1. What type of system application you required?
2. Is this system is new?
3. It must keep data.
4. Is user view product without register?
5. Information must keep confidential.

Functional:

1. How would you like to brand your store?
2. What types of products do you sell?
3. Who are your competitors?
4. Do you need sales tax calculated?
5. Do you need to offer coupons?
6. Do you need to compute shipping?
7. How would you like products organized?
8. Do you have product descriptions available?
9. Do you sell digital products (movies, music, e-books)
10. Do you want to have product reviews?
11. Are there product photos organized?
12. Do you need professional photographs taken?
13. How would you like products organized?
14. What forms of payment do you accept (e.g. Visa, PayPal, Master-Card, COD)
15. What features should your ecommerce website contain (user registration, file upload, contact form, photos, videos, etc.)?
16. How is your sales funnel represented in your site?
17. Do you need custom sales reporting?
18. What keywords do people use in search engines to find your site?
19. How do people contact you for inquiries?
20. Do you have built-in support (e.g. on-site chat, phone?)
21. -How do you plan to host the site?

22. optional (what technology you want to use in site (.net, php)
23. What is your budget and your deadline for completing the shopping website?
24. Do you have any color preferences or look and feel for the ecommerce website orange, green, violet?
25. What do you NOT want on your ecommerce website in terms of content, colors, graphic elements, etc.?
26. Do you have existing marketing efforts that this needs to tie in to?

27. What types of marketing are you currently using? (SEO, Banner Ads, Print ads, Radio, RV)
28. -Do you want social media integration with the shopping cart?

Non-Functional:

1. Is the system will be easy to use by user?
2. Time for verifying password to maximize performance?
3. Total number of client?
4. Typical expected timeframe for system active hours?
5. Are there security concerns related to data access?
6. Is the data recoverable if the system crash or network goes fail?
7. Which browser the system should support and show all features in low network?
8. Are the user inputs being confidential and provide safety?

Answers:

- ✦ What type of system application you required?

Web site

- ✦ Is this system being new?

Yes

- ✦ It must keep data.

Yes

- ✦ Is user view product without register?

Yes

- ✦ Information must keep confidential.

Yes

- ✦ How would you like to brand your store?

Ans: With a delightful designing, deliberate structure, come up with a good logo, and research about my target audience and competitors, applying branding across my business to evolve it to grow more.

- ✦ What types of products do you sell?

Ans: Clothes, All Electronic items, Furniture, Watch.



✦ Who are your competitors?

Ans: HomeShopping.pk, Symbios.pk, Daraz, Yayvo, iShopping.pk ✦
Do you need sales tax calculated?

Ans: Often.

✦ Do you need to offer coupons?

Ans: Yes, as it is a good marketing tool for business.

✦ Do you need to compute shipping?

Ans: Yes

✦ How would you like products organized?

Ans: According to the consumer's choices, their needs and wants.

✦ Do you have product descriptions available?

Ans: Yes.

✦ Do you sell digital products (movies, music, e-books)?

Ans: Only e-books.

✦ Do you want to have product reviews?

Ans: Yes

✦ Are there product photos organized?

Ans: Yes

✦ Do you need professional photographs taken?

Ans: Yes

✦ How would you like products organized?

Ans: According to the limit of number on a page, best sellers and by keeping it simple with fewer but good options.

- ✦ What forms of payment do you accept (e.g. Visa, PayPal, Master-Card, COD)

Ans: I want PayPal and MasterCard and Visa

- ✦ What features should your ecommerce website contain (user registration, file upload, contact form, photos, videos, etc.)?

Ans: Sign Up, Login, Customer Care, Departments, Order, Cart, Deals, Help etc.

- ✦ How is your sales funnel represented in your site?

Ans: Visitors enters website, visit product pages, add products to cart, fill out shipping and billing info, buy.

- ✦ Do you need custom sales reporting?

Ans: Yes

- ✦ What keywords do people use in search engines to find your site?

Ans: Cabinat.pk.

- ✦ How do people contact you for inquiries?

Ans: Through the feature added in website called “HELP” which contains, email and other contact details.

- ✦ Do you have built-in support (e.g. on-site chat, phone?)

- ✦ Ans: No.

- ✦ -How do you plan to host the site?

Ans: By choosing a good hosting server and a good website hosting plan.

- ✦ optional (what technology you want to use in site (.net, php))

- ✦ Ans: asp.net

- ✦ What is your budget and your deadline for completing the shopping website?

Ans: I want website in 2 months and my budget is 150000.

- ✦ Do you have any color preferences or look and feel for the ecommerce website orange, green, violet?

Ans: I think White and Green looks good.

- ✦ What do you NOT want on your ecommerce website in terms of content, colors, graphic elements, etc.?

Ans: Too much product offerings in one page (it should be in a number of limitations so the consumer could not get confused while shopping), too much irrelevant or unnecessary features, harsh colors, too much deals (discounted deals).

- ✦ Do you have existing marketing efforts that this needs to tie in to?

Ans: Yes, with a good marketing strategies and “Seven P Formula”.

- ✦ What types of marketing are you currently using? (SEO, Banner Ads, Print ads, Radio, RV)

Ans: Banner Ads.

- ✦ -Do you want social media integration with the shopping cart?

Ans: Yes.

- ✦ Is the system will be easy to use by user?

Yes, the system will be user friendly.

- ✦ Time for verifying password to maximize performance?

2 second.

- ✦ Total number of client?

20,000

- ✦ Typical expected timeframe for system active hours?

24/7.

- ✦ Are there security concerns related to data access?

Yes, the only admin can access the data.

- ✦ Is the data recoverable if the system crash or network goes fail?

Yes, the system will recover all data input by user if system fails or network down.

- ✦ Which browser the system should support and show all features in low network?

The system supports all browser and yes show all feature in low network.

- ✦ Are the user inputs being confidential and provide safety?

The account detail of user should be confidential and only admin can access the data with proper authentication.

Feasibility Study: -

A feasibility analysis usually involves a thorough assessment of the operational (need), financial and technical aspects of a proposal. Feasibility study is the test of the system proposal made to identify whether the user needs may be satisfied using the current software and hardware technologies, whether the system will be cost effective from a business point of view and whether it can be developed with the given budgetary constraints. A feasibility study should be relatively cheap and done at the earliest possible time. Depending on the study, the decision is made whether to go ahead with a more detailed analysis.

When a new project is proposed, it normally goes through feasibility assessment. Feasibility study is carried out to determine whether the proposed system is possible to develop with available resources and what should be the cost consideration. Facts considered in the feasibility analysis were.

System Feasibility:

The system feasibility can be divided into the following sections:

Technical Feasibility

It is a study that checks if the system under consideration can be operated with available resources. Here it checks whether the system can be operated efficiently with current equipment and existing software technology and available manpower. Our System can satisfy this aspect of feasibility, the environment of software is ASP.NET under C#. The web applications created with ASP.NET are easier to create, debug, and deploy because those tasks all be performed within a single development environment – Visual Studio .NET. To deploy the application, the only technical aspects needed are mentioned below:

- Operating Environment Win 10/8.1 Platform
- .Net Framework & IIS
- Database SQL Server 2018

Economic Feasibility

The project is economically feasible as the only cost involved is having a computer with the minimum requirements mentioned earlier. For the users to access the application, the only cost involved will be in getting access to the Internet, and the cost involved will also be domain on which web site will deploy

Operational / Behavioral Feasibility:

Our system is very user friendly and easy to operate that any person can easily operate / use it. If the required information necessary for handling the system is given to the user. User would easily be friendly with the system overall our system is operationally feasible. The application requires no special technical guidance and all the views available in the application are self-explanatory. The users are well guided with warning and failure messages for all the actions taken.

Tools for Requirements:

Software Components:

- Operating Environment Win 10/8.1
- Platform .Net Framework & IIS Visual Studio 2017.
- Database SQL Server 2018.

Hardware Components:

- Processor – i3
- Hard Disk – 5 GB
- Memory – 1GB RAM

Requirements Specification

FUNCTIONAL REQUIRMENT:

Login: -The system should have login so the user shall give their id and password in field if user want to buy the product.

Search: -The system should have the search bar in which user can search any type of desire product.

Product Description: -The system should have the description of product when user click on the product image the page will open in which the description is available of that product.

Add to Cart: -The system has the feature of cart in which the user wants to buy multiple products so he can put each product into cart when the wish list complete the user will go to cart and buy products.

Sign up: -The system should have created account feature with no repeat username, which leads to buy product from system by user.

Payment Method: -The system should have payment method to facilitate user to input info to selected method and purchase the desire item with generated recipe and message on given number.

Feedback: -Further features include feedback option and a complain box. In case of any mishap user can submit complain at the given email address or contact number.

CRUD Operations: -The System should have feature in admin site to create/add new product or update the existing product and if the product is out of stock or old then delete the product.

Image uploading feature: -The system should have image upload feature in admin site in which admin add the 5 image new product or upload 5 images of existing product.

Product Categorization: -The system should have facilitated user by an additional and immensely useful feature of diving their products into sub categories by selecting given option showing (winters, summers, vintage, modern, popular etc.) for each product accordingly.

Coupons: -The system should have coupons feature in admin site which admin offers the coupons to user for marketing on special days (father's day, mother's day, Friday etc.).

Order: -The system should have the order page, the page shows all delivered and in progress order (with duration of delivery).

Compute Shipping: -The system should show the user how much time it will take to reach product to user.

Contact/Help/Customer Care: -The system should have the page of contact us which help user to ask queries if user have any problem related to the product or in purchasing.



Non-Functional Requirement:

Access-Security: -The system should capable to safeguard against deliberate and intrusive faults from internal and external sources, and secure with authentication of admin username and password.

Efficiency: - The response time of the system shall be quick as it does not exceed 8 seconds, and the system will give access when there is low network.

Reliability: -The system will not crash/fail, in some condition if the system fails to respond then it will recover in mentioned time that is 15 mint and have capability to support 20,000 client per second.

Availability: - The system should be capable to give availability to mentioned time that is 24/7 and in some condition the system not respond or network down the system will show the last page as stored in cache.

Recoverability: -When the system fails in any condition (system crash or network down) and when the system is recover, the system should have capability to recovers with entered data, so there is no need to enter many times same data.

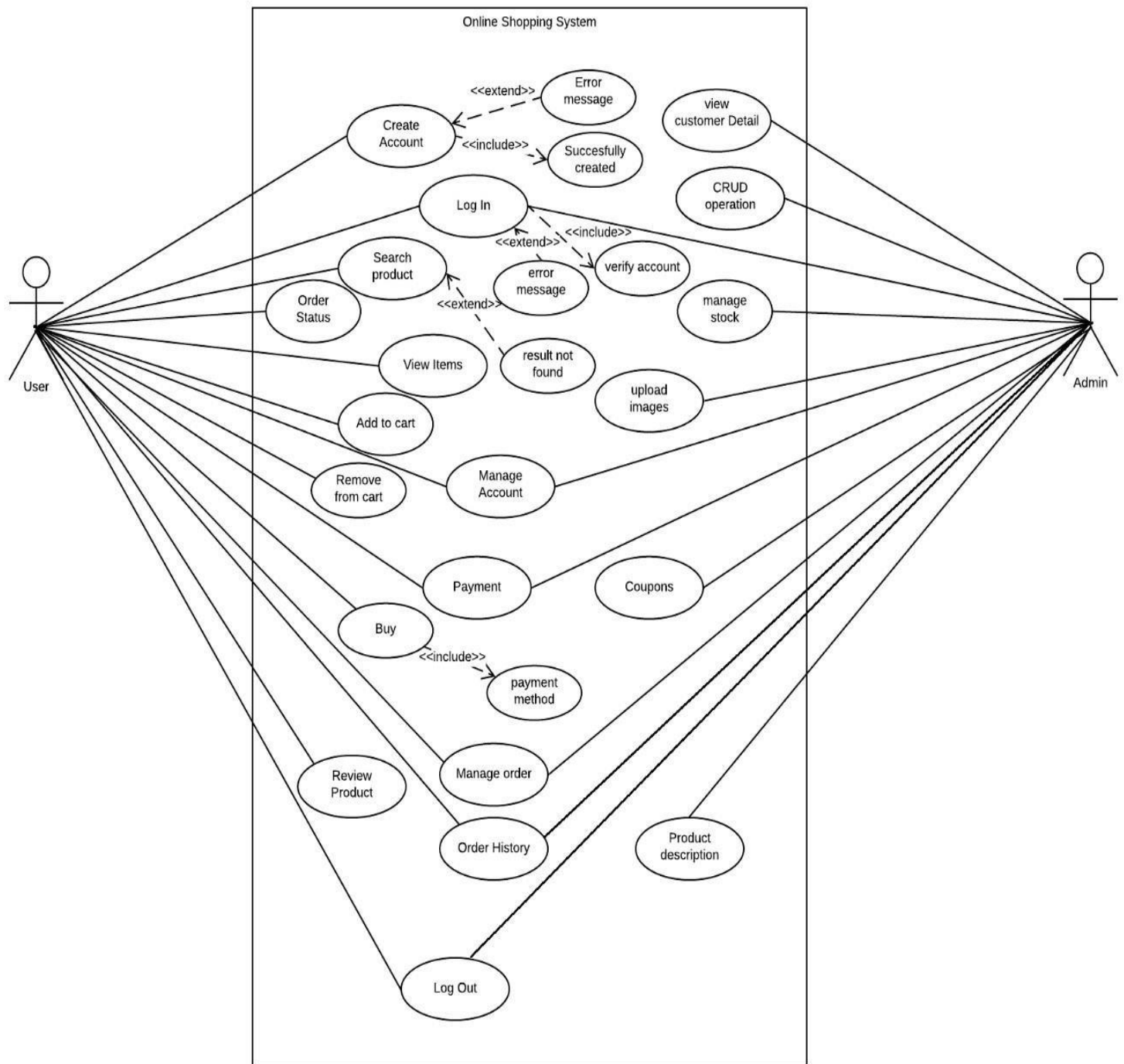
Usability: -The System should be friendly with user and very simple to understand the operation/function which should be deployed to facilitate users.

Portability: -The system should compatible with all browser in user system.

Maintainability: -The system should capable of finding and fixing the bugs in minimum resources and time.

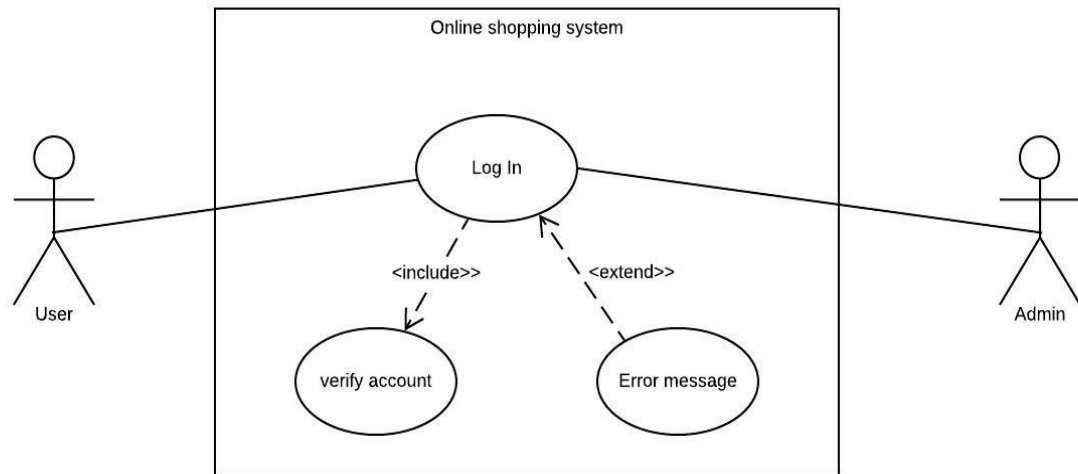
Requirement Analysis

UML Use Case

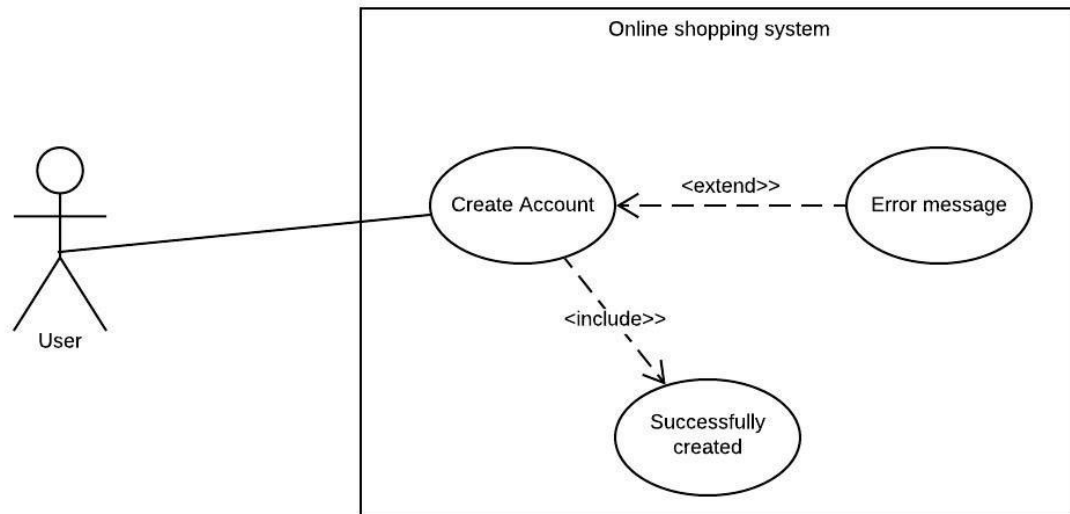


Use Cases Description

The list of possible interactions between a user and the system are mention here.

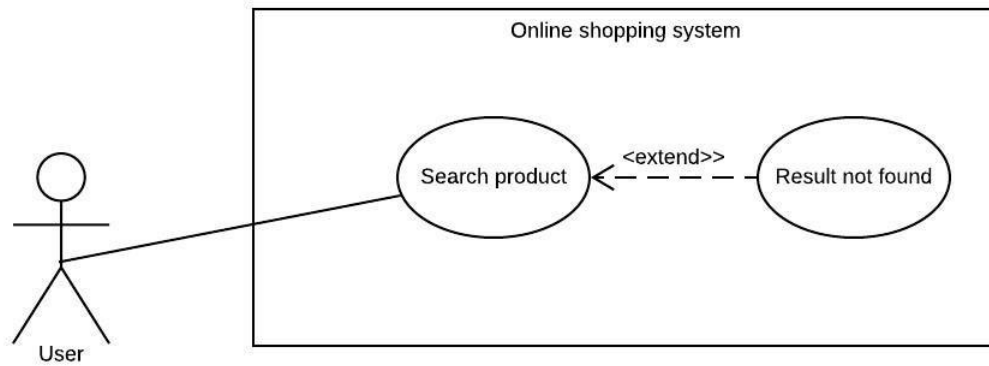


<u>UC-01 Log In</u>	
Requirement	To be able to Log In.
Initiating Actors	User does initiative step.
Actor's goal	To access the system for purchasing the items.
Participating Actors	User
Pre-conditions	Clicking on the Log-In.
Post-conditions	Be Log-In in to the system to see the products and purchase desire item.
Flow of events	<ul style="list-style-type: none"> ● Visit the website ● Click on the Log-In menu ● Enter valid Name and password ● Click the log in button.



UC-02 Sign up/Create Account

Requirement	To be able to sign up.
Initiating Actors	User does initiative step.
Actor's goal	To be registered in the system for purchasing the items.
Participating Actors	User
Pre-conditions	Clicking on the sign up.
Post-conditions	Be signed in to the system to see the products and purchase desire item.
Flow of events	<ul style="list-style-type: none"> ○ Visit the website ○ Click on the sign-up menu ○ Enter valid information ○ Be signed in after completion of the signup procedure.

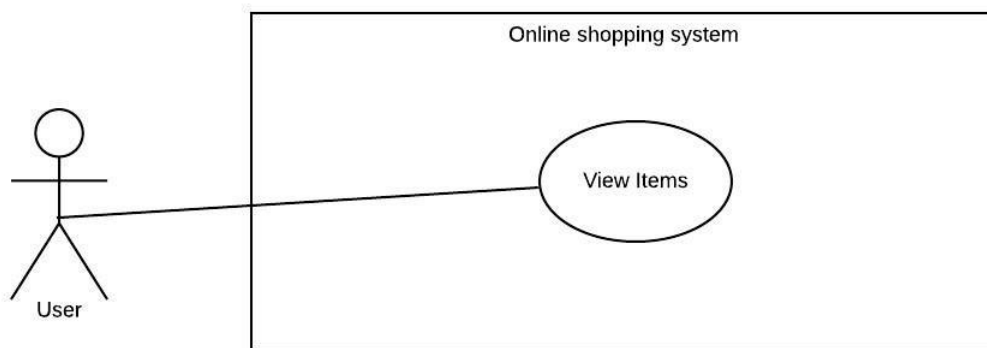


UC-03 Search Item

Requirement	To be able to search the items.
Initiating Actors	User does initiative step.
Actor's goal	To search desire product by product name in search bar.
Participating Actors	User
Pre-conditions	Clicking in the Search bar.
Post-conditions	To view the desire product which search by its name.

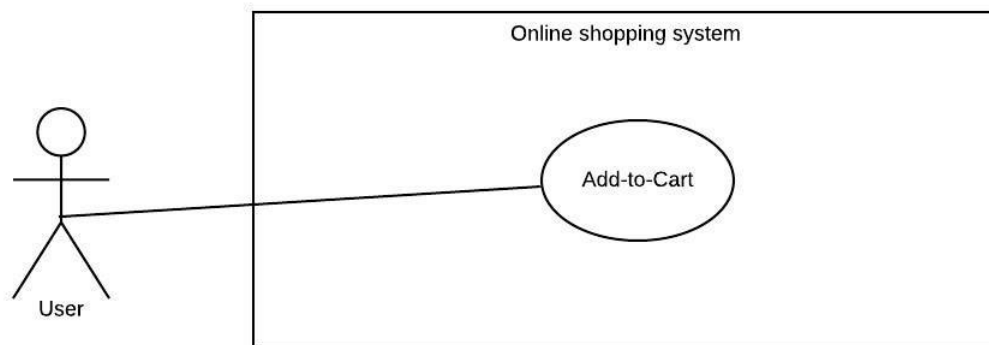
Flow of events

- Visit the website
- Click in the search bar
- Enter the name of desire item.
- Displayed the list of searched item.

**UC-04 View Item**

Requirement	To be able to view item by its category.
Initiating Actors	User does initiative step.
Actor's goal	Not to search the items which are displayed in front page of the system by its category.
Participating Actors	User

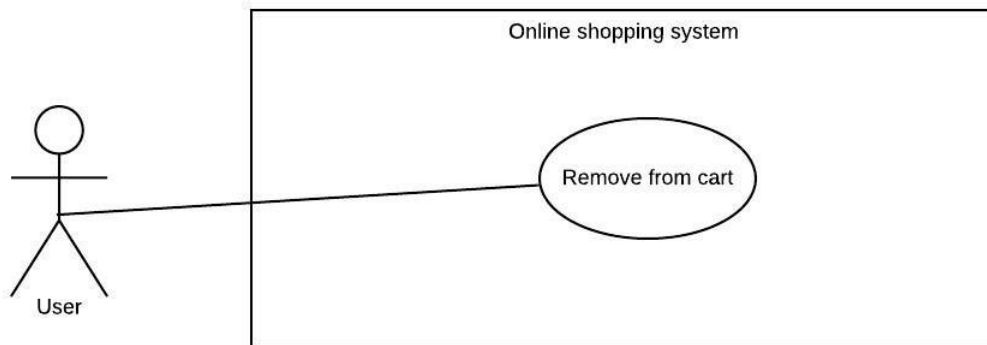
Pre-conditions	Visit the website.
Post-conditions	Displayed the items by its category.
Flow of events	<ul style="list-style-type: none"> ○ Visit the website ○ Displayed the items.



<u>UC-05 Add-to-cart</u>	
Requirement	To be able to view the list of all selected item for purchase.
Initiating Actors	User does initiative step.
Actor's goal	To store the desire item in bucket and purchase all items as Once.
Participating Actors	User
Pre-conditions	Clicking on the Add to Cart button.
Post-conditions	The system will store the item in cart

Flow of events

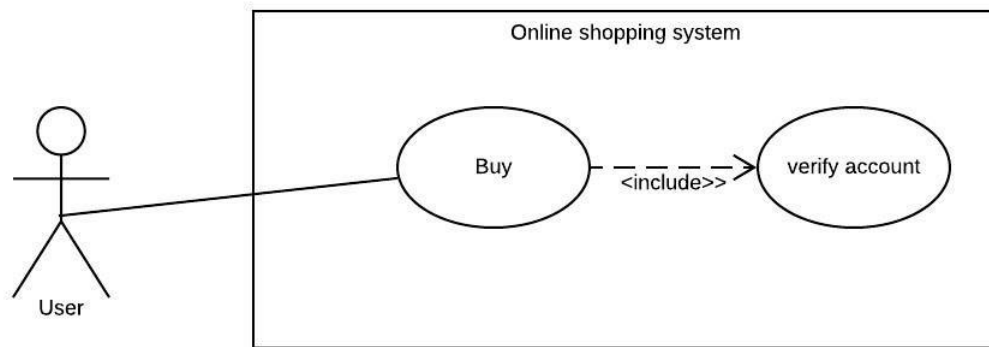
- Visit the website.
- Click on the product.
- Click the Add to cart below the product.

**UC-06 Remove-From-cart**

Requirement	To be able to remove the items from the list of all selected item for purchase.
Initiating Actors	User does initiative step.
Actor's goal	To remove the item from cart list if does not want to purchase.
Participating Actors	User
Pre-conditions	Clicking on the Cart Option and click on remove option beside product.
Post-conditions	The item remove from cart list

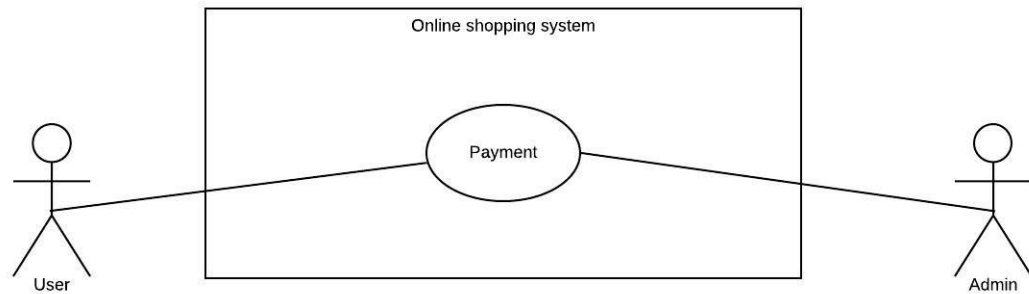
Flow of events

- Visit the website.
- Click on the cart option.
- Click the remove option beside the product.

**UC-07 Buy**

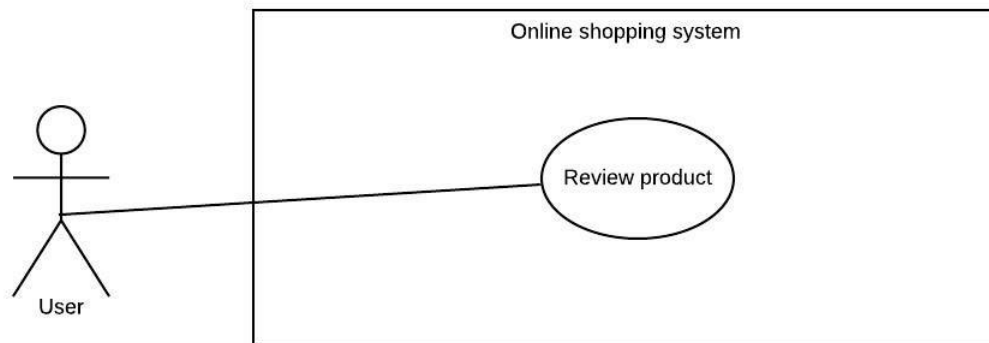
Requirement	To be able to purchase the product direct or purchase from cart list.
Initiating Actors	User does initiative step.
Actor's goal	To purchase desire product from website.
Participating Actors	User
Pre-conditions	Clicking the buy option below the product description.
Post-conditions	The system displayed the payment method page
Flow of events	<ul style="list-style-type: none"> ○ Visit the website. ○ Click on the product. ○ Click buy option below the product description.





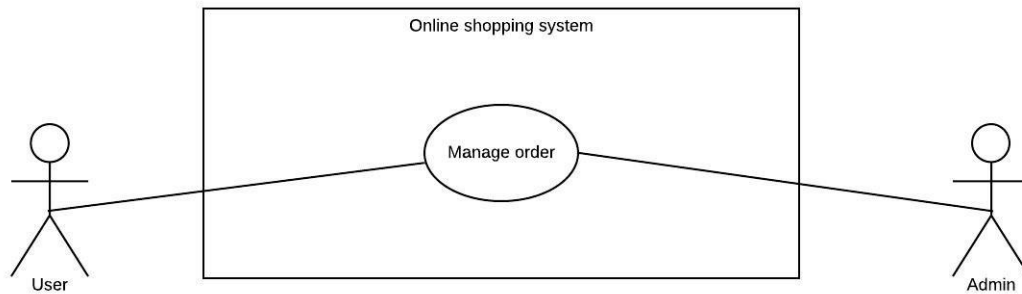
UC-08 Payment

Requirement	To be able to do payment from selected method.
Initiating Actors	User does initiative step.
Actor's goal	To make payment of selected method.
Participating Actors	User
Pre-conditions	Clicking the pay button below in cart and provide necessary information.
Post-conditions	The system will show the recipe and display the date of delivery of item.
Flow of events	<ul style="list-style-type: none"> ○ Visit the website. ○ Click on any product. ○ Click on buy option. ○ Click on pay. ○ Displayed dialog box. ○ Provide necessary information.



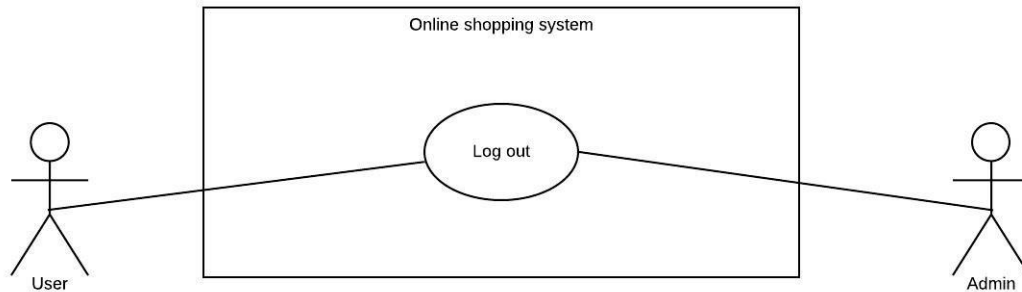
UC-09 Review Product

Requirement	To be able to write review about product.
Initiating Actors	User does initiative step.
Actor's goal	To give feedback to product quality.
Participating Actors	User
Pre-conditions	Clicking on the rate/review option.
Post-conditions	The system will display field for review and shows the stars for rating.
Flow of events	<ul style="list-style-type: none"> ○ Visit the website. ○ Click on any product. ○ Click on rate/review option. ○ Click on field. ○ Write review. ○ Click the stars.



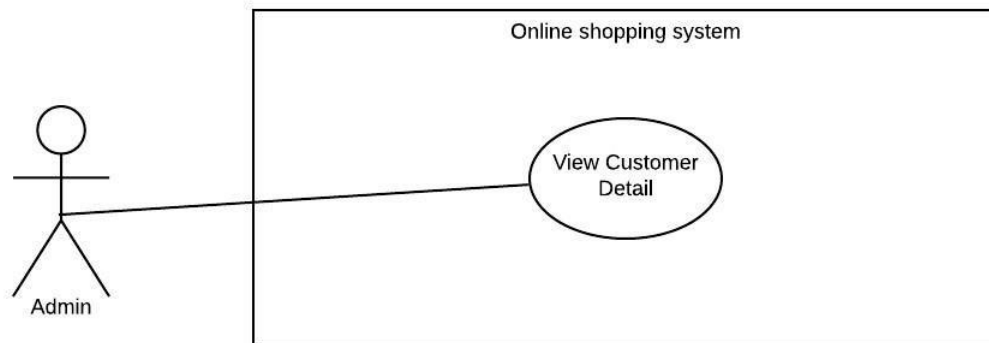
UC-10 Manage Order

Requirement	To be able to cancel or update the order.
Initiating Actors	User does initiative step.
Actor's goal	To cancel the order or add another purchase item in same order.
Participating Actors	User
Pre-conditions	Clicking on manage order option.
Post-conditions	The system will open the page of current order with cancel and update button.
Flow of events	<ul style="list-style-type: none"> ○ Visit the website. ○ Click on manage order option. ○ Click on cancel button to cancel. ○ Click on update button for add more item for purchase. ○ Write review.

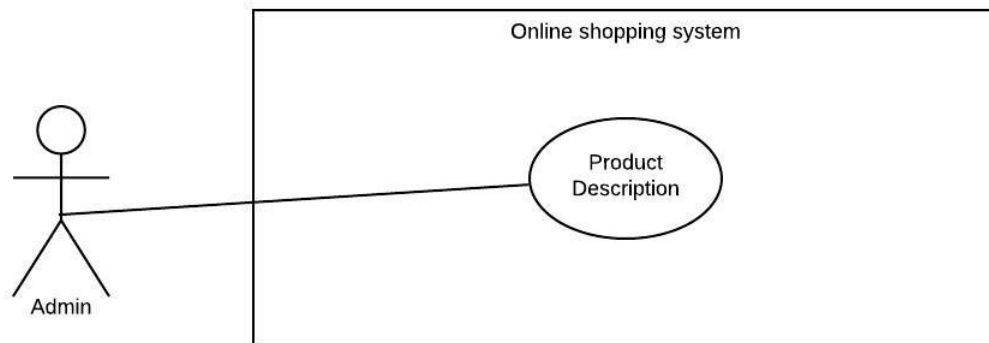


UC-11 Log-Out

Requirement	To be able to Log-out from system.
Initiating Actors	User does initiative step.
Actor's goal	Provide authentication, the user can log-out from system.
Participating Actors	User
Pre-conditions	Clicking on the Log-out option.
Post-conditions	The system will come and show home/front page.
Flow of events	<ul style="list-style-type: none"> ○ Visit the website. ○ Click on Logout.

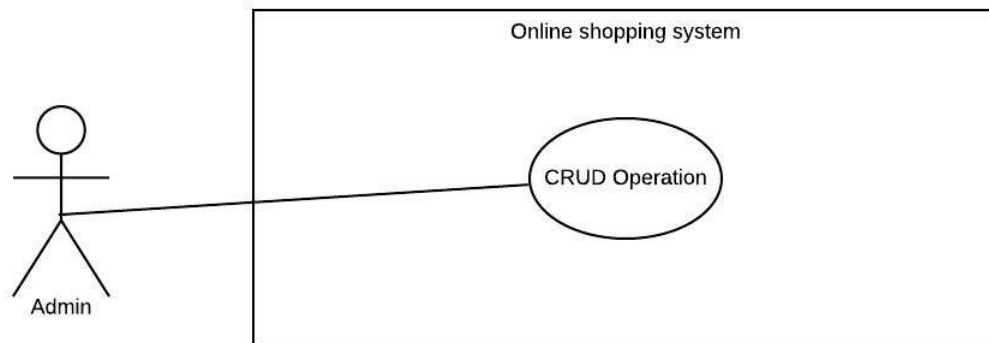


<u>UC-12 Customer Detail</u>	
Requirement	To be able to see the profiles of user.
Initiating Actors	Admin does initiative step.
Actor's goal	To view the customer details/information except account info.
Participating Actors	Admin
Pre-conditions	Clicking on User Detail option.
Post-conditions	The system will display all user which are registered in system with detail in different fields.
Flow of events	<ul style="list-style-type: none"> ○ Visit the website. ○ Click on menu. ○ Click on user detail.



UC-13 Product Description

Requirement	To be able to add about product.
Initiating Actors	Admin does initiative step.
Actor's goal	Add the description of product, for more detail about item.
Participating Actors	Admin
Pre-conditions	Clicking on Add description.
Post-conditions	The system will display field where the text appears.
Flow of events	<ul style="list-style-type: none"> ○ Visit the website. ○ Click on menu. ○ Click on products. ○ Click on Add description.

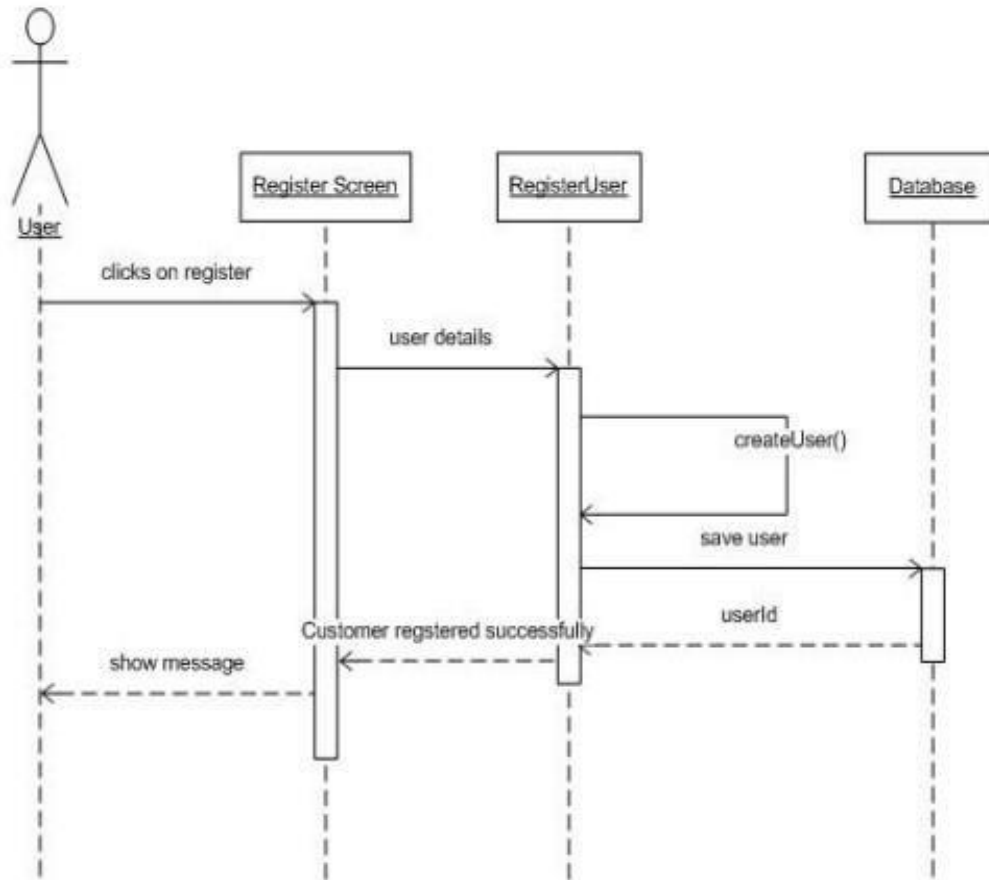


UC-14 CRUD Operation

Requirement	To be able to add, update and remove the product from system.
Initiating Actors	Admin does initiative step.
Actor's goal	Delete/remove old product which are out of stock, update the product with diff image, color and add new products.
Participating Actors	Admin
Pre-conditions	Clicking on Add, remove or edit in product.
Post-conditions	The system will display dialog box with required fields.
Flow of events	<ul style="list-style-type: none"> ○ Visit the website. ○ Click on menu. ○ Click on product. ○ Click on edit, remove or add.

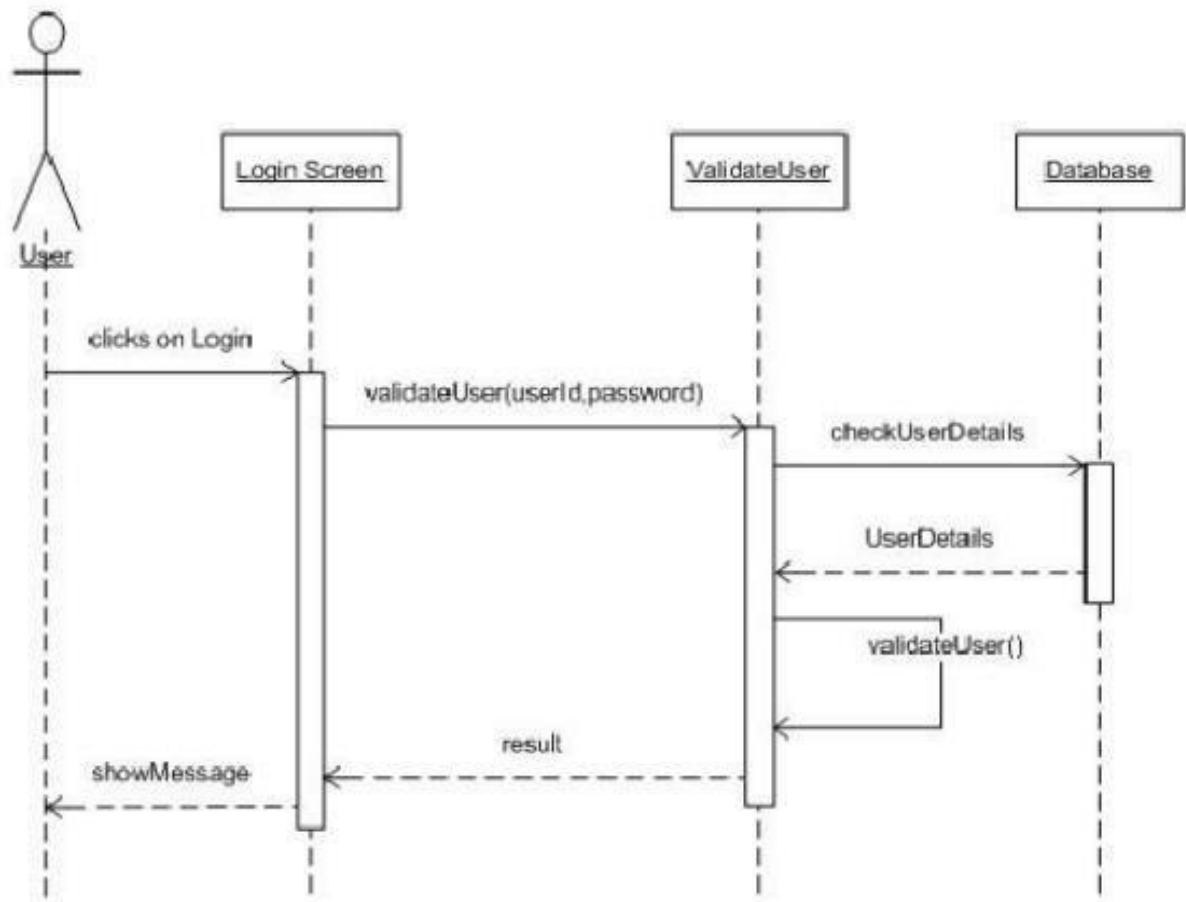
Sequence Diagram

1. Register



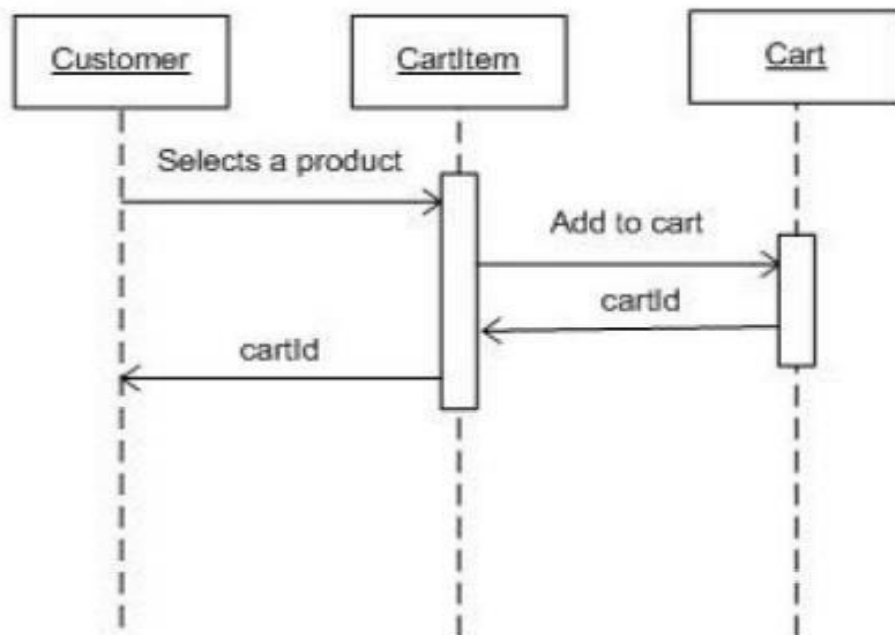
For purchasing items from system the user have to log in the system, for log in the system the user should have account in the system. The user have to register in system by clicking create account, in registration page screen there will be multiple field which is necessary to fill with unique username the user will register in system database then he/she can purchase and add-to-cart items.

2. Login



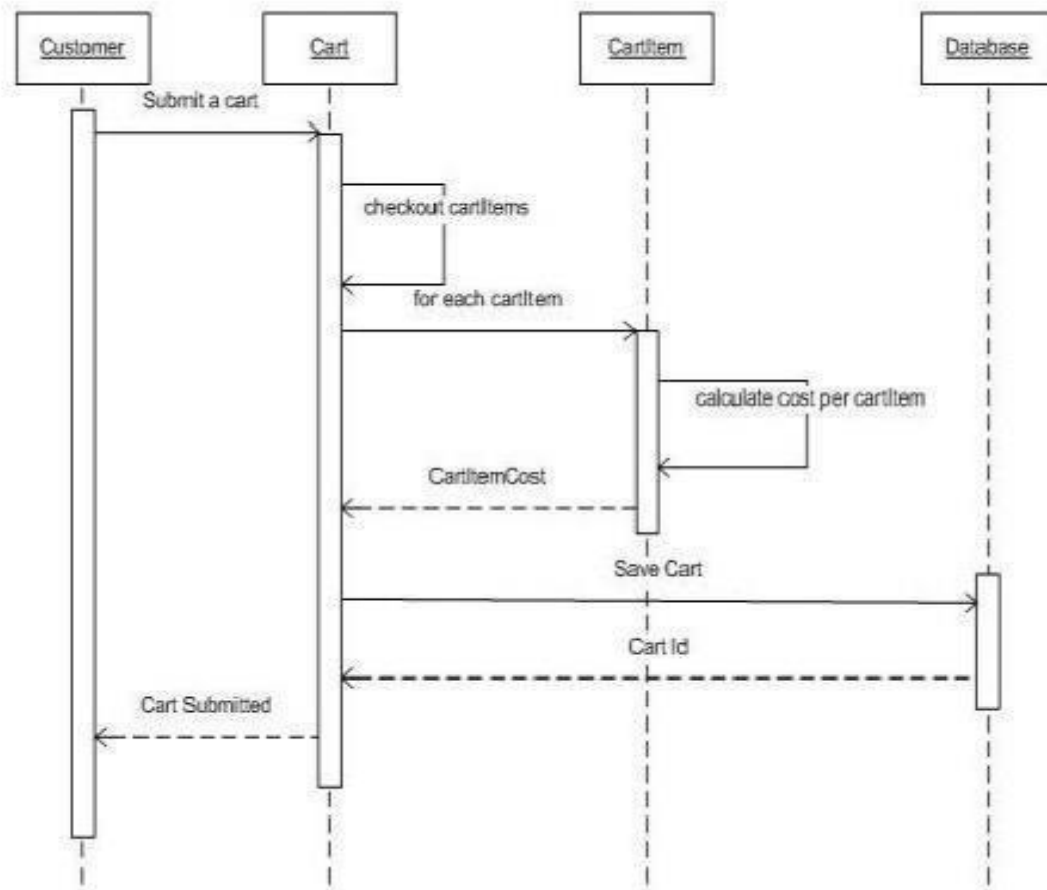
In diagram the user will login the system, the system verifies the username and password from database and return back the message if the username and password are correct the user enter in system and if wrong the system shows message. The user need to login if he wants to purchase and add to cart the items.

3. Add-To-Cart



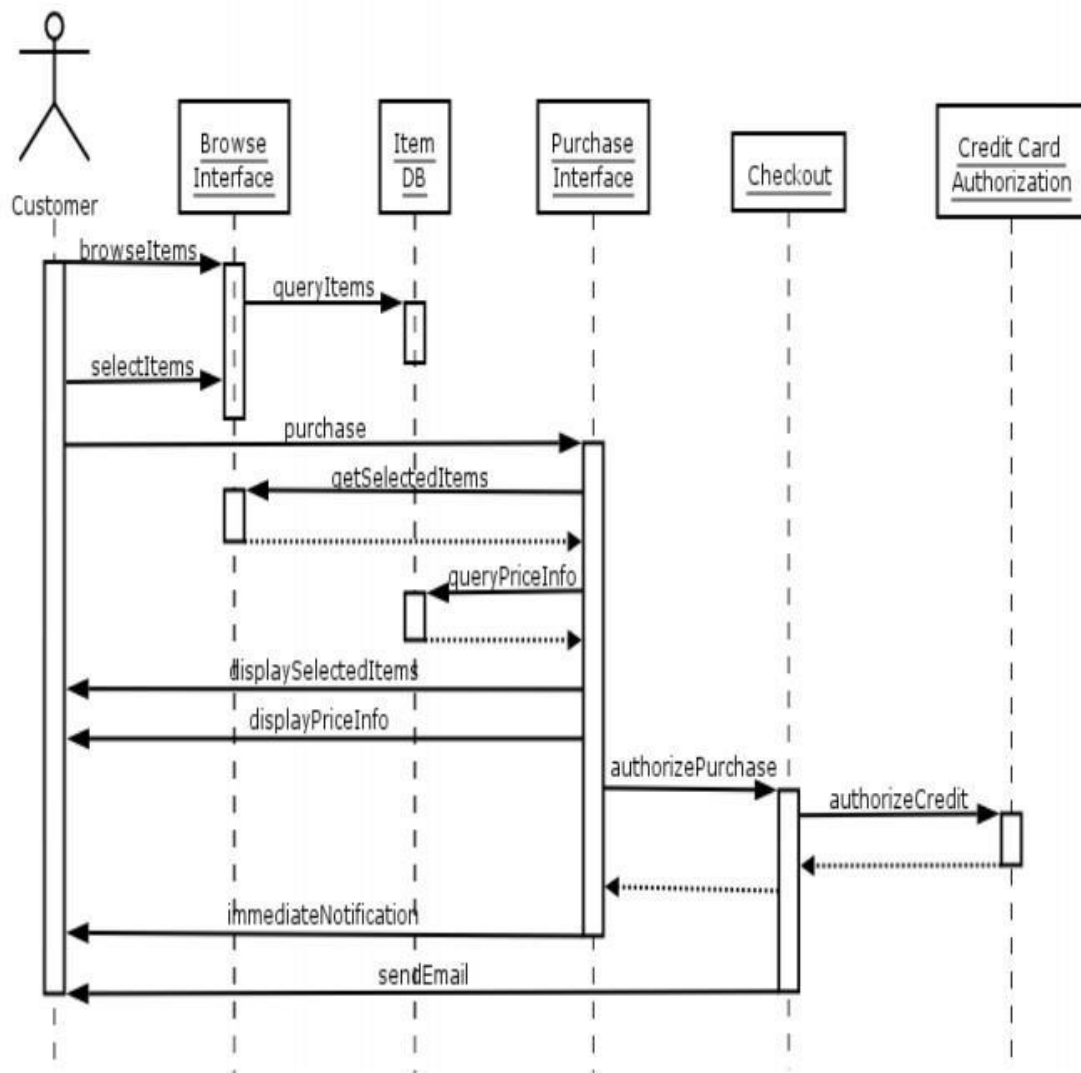
The diagram shows that the user wants that product and not to find again and again the user can add that product to cart, the system will add that product to cart and assign a unique id as order no.

4. Submit/Checkout



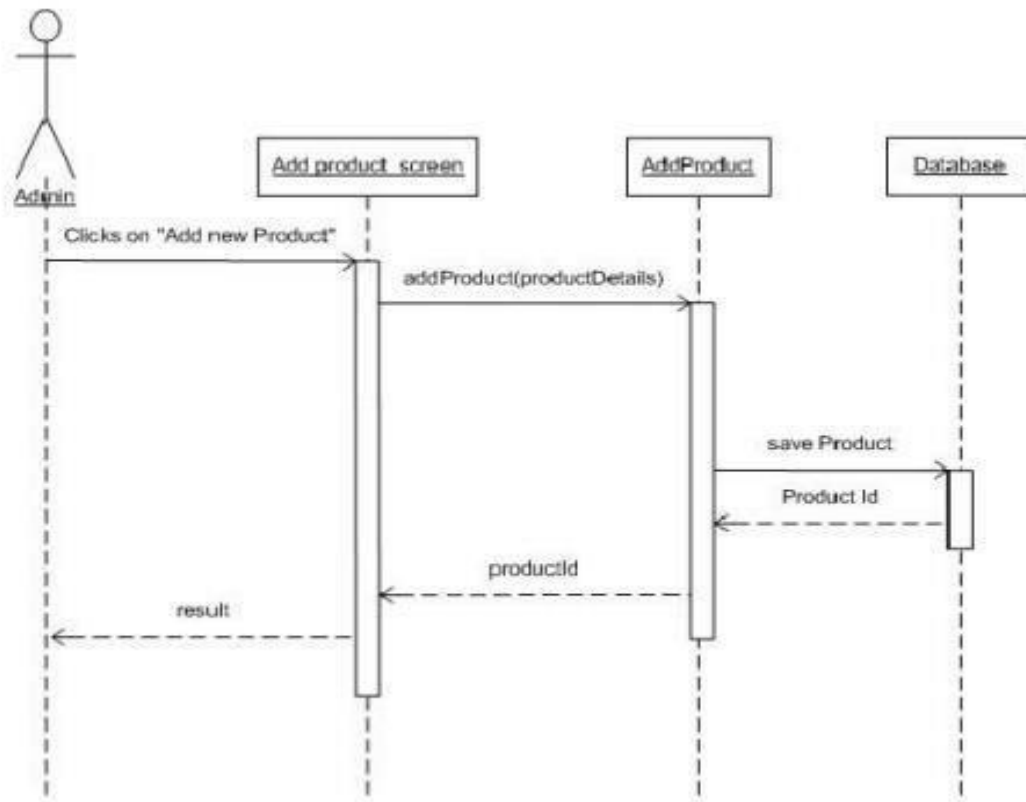
The diagrams show that the user add the items into cart and then he/she checkout the cart, the cart will generate recipe of all items in cart with their quantity and their prize and in last of recipe, generates total prize which are payable if user want to purchase that all items.

5. Purchase



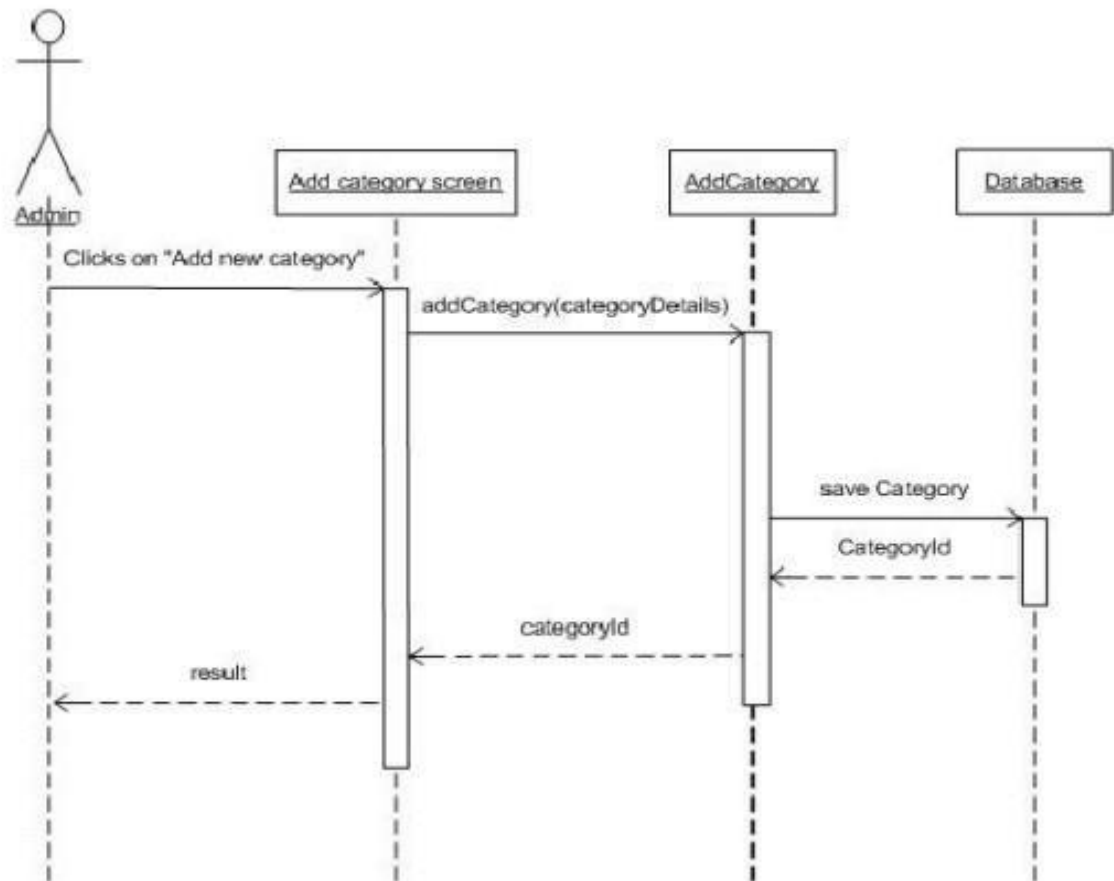
The diagram shows that the user wants to purchase directly then the user will browse item select the item click on purchase the system will show him/her the selected item with its prize and if he/she wanted to purchase he have to select the method and provide information then the system will notify in email.

6. Add New Product



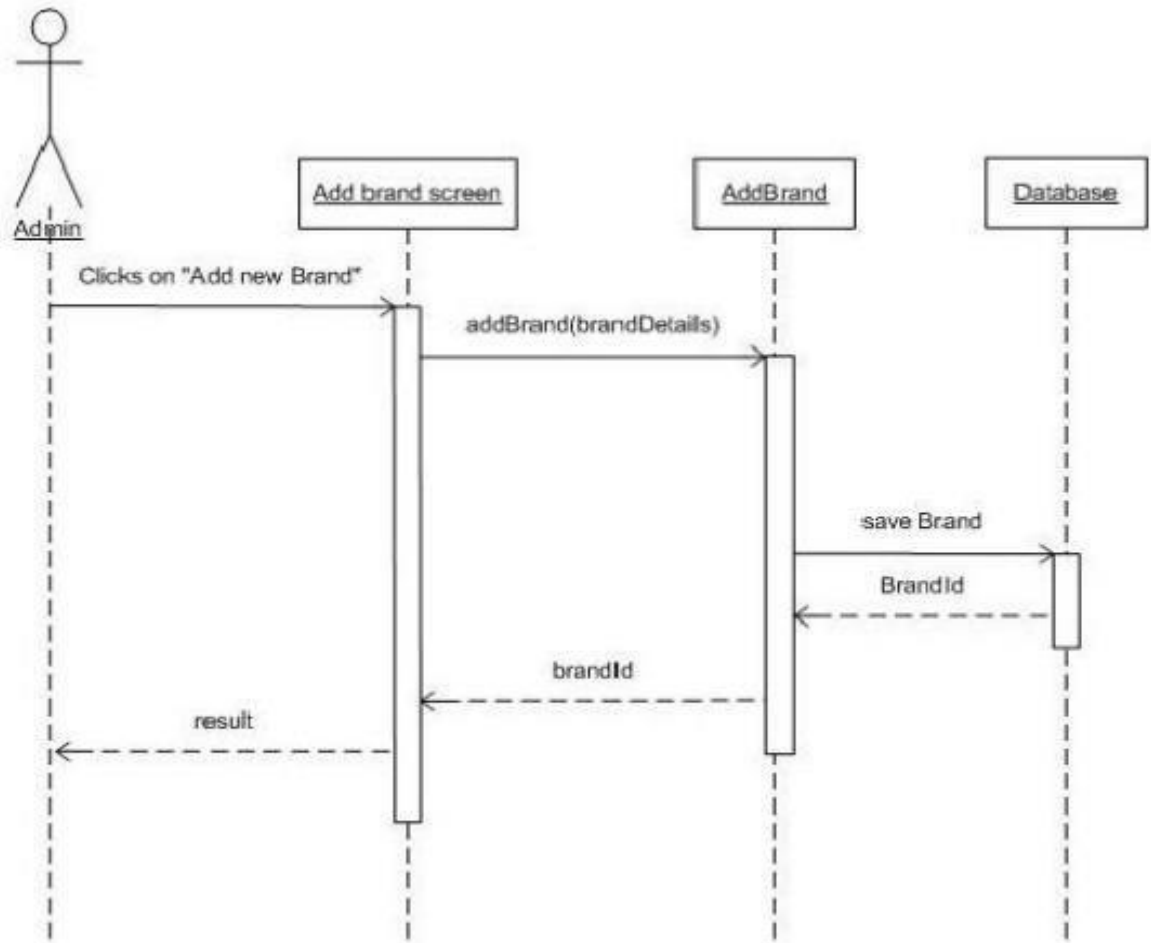
The diagram shows that the admin wants to add new product to the system then he/she click the add product then upload images of product with product detail and then save the product in database, and then the system displays that item in products.

7. Add New Category



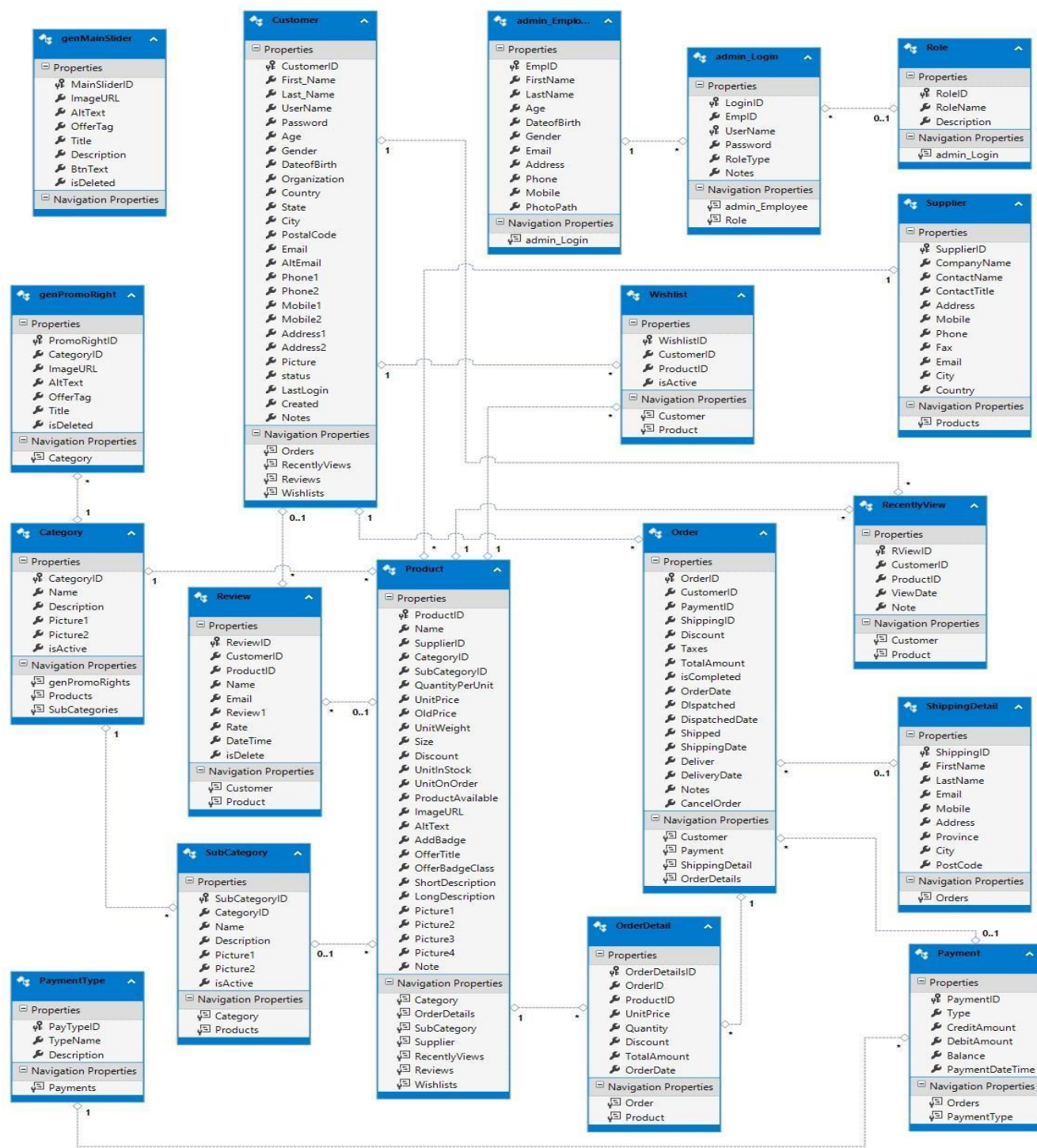
The diagram shows that the admin wants to add new category to the system then he/she click the add category with category detail and put product under that category and then save the category in database, and then the system displays that product under new category.

8. Add New Brand



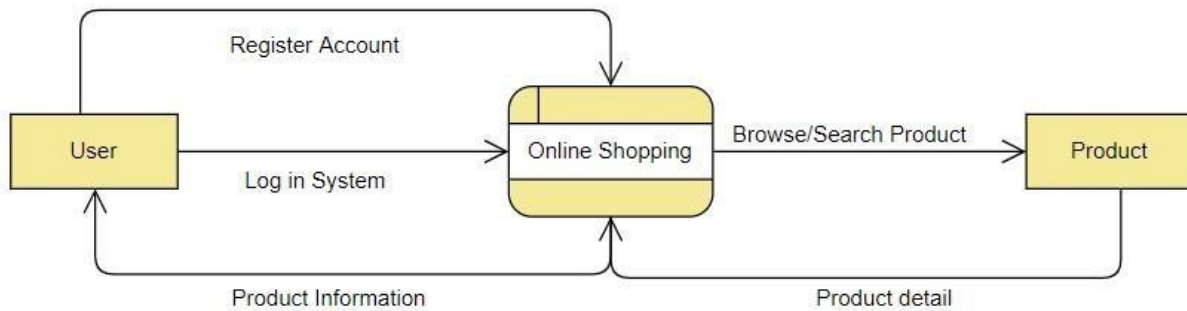
The diagram shows that the admin wants to add new brand to the system then he/she click the add brand with brand detail and put product of that brands under that brand and then save the brand in database, and then the system displays that product under new brand.

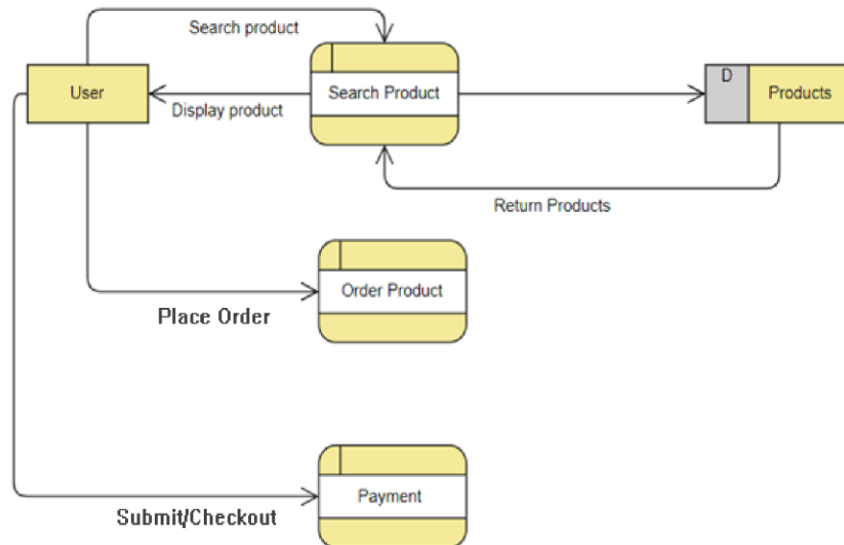
Entity Relationship Diagram



Data Flow Diagram

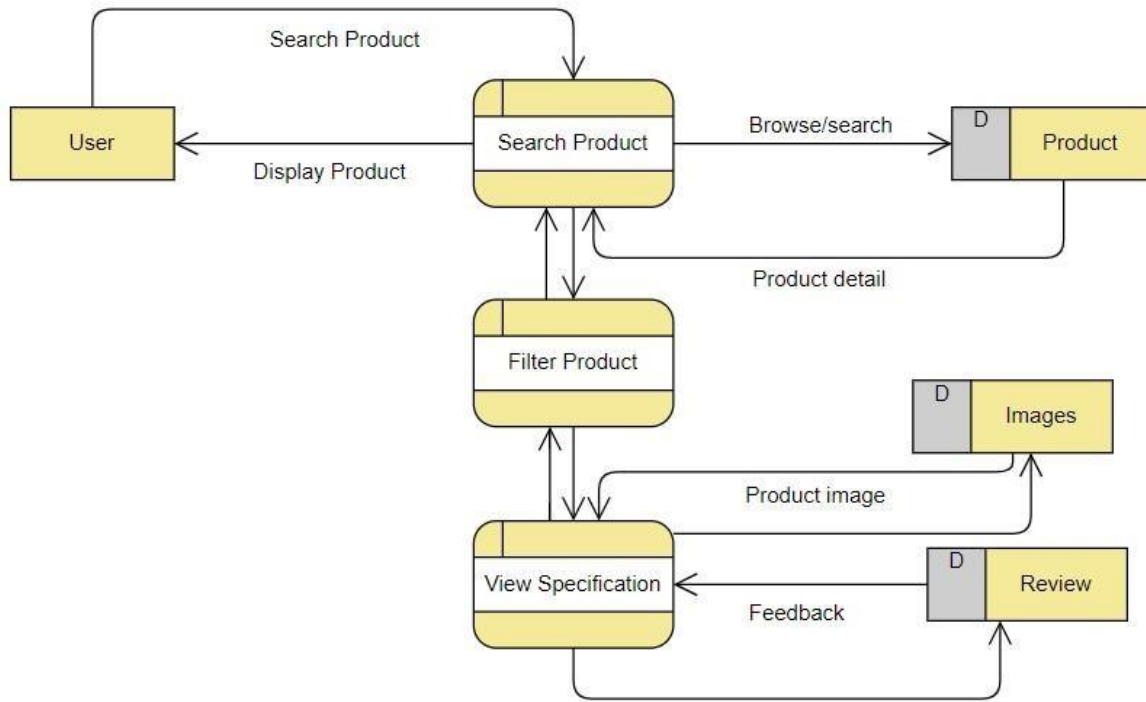
Context Level Diagram



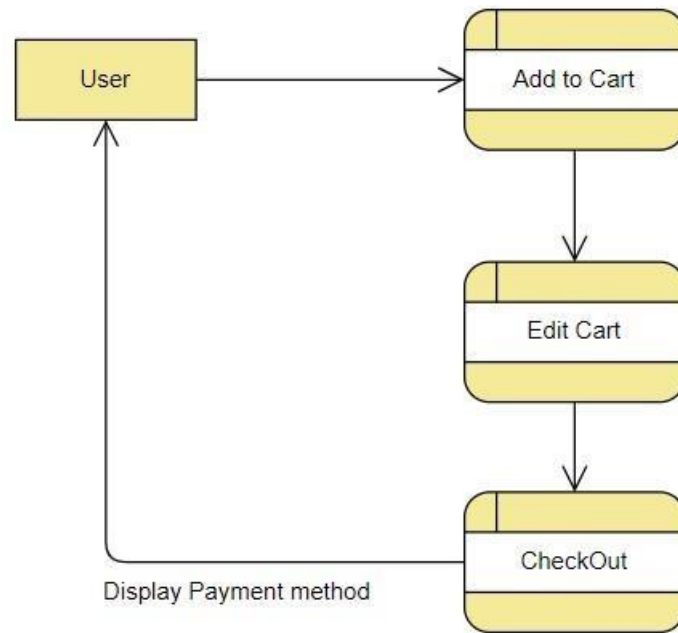


Level 1 Diagram

Level 2 Diagram



Process 1 level 2



Process 2 Level 2



Requirement Validation

Test Case :1	Test Case title: Login based on different roles (Admin, User).
Test Case Module ID: TC1	Test Designed by: Md Obaydullah
Test Priority: High	Requirement Functional Testing

Testing Objective: To make sure the login page redirect user to the correct page based on their roles.

Test Case ID	Test Case	Expected Result	Result (Pass/Fail)	Reason	Note
TC # 1.1	Verify login user as admin role.	Redirect login user to the admin page.	Pass		
TC # 1.2	Verify login user as customer role.	Redirect login user to the home page.	Pass		

Test Case :2	Test Case title: View, Edit, Insert, Delete information of product. Role (Admin).
Test Case Module ID: TC2	Test Designed by: Md Obaydullah
Test Priority: Medium	Requirement Functional Testing

Testing Objective: To make sure that admin can view register User detail and also admin can perform CRUD operations on products.

Test Case ID	Test Case	Expected Result	Result (Pass/Fail)	Reason	Note
TC # 2.1	Verify that admin can view user detail.	Redirect admin to the User Detail page.	Pass		
TC # 2.2	Verify that admin can	Redirect admin to the	Pass		
	Edit user detail.	User Detail page.			
TC # 2.3	Verify that admin can Delete user detail.	Redirect admin to the User Detail page.	Pass		
TC # 2.4	Verify that admin can View Product Detail.	Redirect admin to the Product Detail page.	Pass		
TC # 2.5	Verify that admin can Edit Product Detail.	Redirect admin to the Product Detail page.	Pass		
TC # 2.6	Verify that admin can Delete Product Detail.	Redirect admin to the Product Detail page.	Pass		
TC # 2.7	Verify that admin can Insert Product Detail.	Redirect admin to the Product Detail page.	Pass		
TC # 2.8	Verify that admin can Edit Product Image.	Redirect admin to the Product Detail page.	Pass		
TC # 2.9	Verify that admin can Delete Product Image.	Redirect admin to the Product Detail page.	Pass		

TC # 2.10	Verify that admin can Insert Product image.	Redirect admin to the Product Detail page.	Pass		
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Test Case :3	Test Case title: Manage information of Stock, Account, Order, and Order History. Role (Admin, User).
Test Priority: Medium	Requirement Functional Testing

Testing Objective: To make sure that admin can manage stock of product, Users can create and manage and Admin Can Manage their Account, Order and order History.

Test Case ID	Test Case	Expected Result	Result (Pass/Fail)	Reason	Note
TC # 3.1	Verify that admin can Manage stock detail.	Redirect admin to the stock Detail page.	Pass		
TC # 3.2	Verify that admin can Manage Its Account detail.	Redirect admin to the admin Profile page.	Pass		
TC # 3.3	Verify that admin can Manage Order history.	Redirect admin to the Order Detail page.	Pass		
TC # 3.4	Verify that admin can Manage new Order.	Redirect admin to the Order Detail page.	Pass		

TC # 3.5	Verify that User can Manage its profile.	Redirect User to the User Profile page.	Pass		
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TC # 3.6	Verify that User can Manage its Order.	Redirect User to the Mange Order page where he or she can update or cancel his order.	Pass		
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TC # 3.7	Verify that User can create its Account.	Redirect User to the Sign-up page.	Pass		
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TC # 3.8	Verify that User can check its Order Status.	Redirect User to the Order Status page.	Pass		
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Test Case :4	Test Case title: Cart System. Role (User).
Test Priority: Medium	Requirement Functional Testing

Testing Objective: To make sure that User Can Manage its Shopping Cart.

Test Case ID	Test Case	Expected Result	Result (Pass/Fail)	Reason	Note
TC # 4.1	Verify that User can Add items to the cart and continue shopping.	Redirect User to the Product page.	Pass		
TC # 4.2	Verify that User can remove items to the cart and continue shopping.	Redirect User to the Product page.	Pass		
TC # 4.3	Verify that If the user adds the same item to the cart while continuing to shop, the	Redirect User to the Product page.	Pass		
	item count in the shopping cart should get incremented.				
TC # 4.4	Verify that If the user deletes the same item to the cart while continuing to shop, the item count in the shopping cart should get decremented.	Redirect User to the Product page.	Pass		
TC # 4.5	Verify that all items and their totals should be display in cart.	Redirect User to the Shopping Cart page.	Pass		

Test Case :5

Test Case title: Checkout and Payment Role

	(User, Admin).				
Test Case Module		Test Designed by: Md Obaydulla			
Test Priority: Medium		Requirement Functional Testing			
Testing Objective: To make sure that User Can Manage its Shopping Cart.					
Test Case ID	Test Case	Expected Result	Result (Pass/Fail)	Reason	Note
TC # 5.1	Verify to Check different payment options	Redirect User to the checkout page.	Pass		
TC # 5.2	Verify that if customer is log-in or not.	Redirect User to the Login page.	Pass		
TC # 5.3	Verify that Emails/Text confirmation with the order number generated is sent to the User.	Redirect User to the Payment successful page.	Pass		
TC # 5.4	Verify that Payment is successfully paid or not.	Redirect admin to the Payment page.	Pass		

Testing

Test Case :6	Test Case title: Search and view product. Role (User).
Test Case Module ID: TC6	Test Designed by: Md Obaydullah
Test Priority: Medium	Requirement Functional Testing
Objective: To make sure that User can view product and also search product.	

Test Case ID	Test Case	Expected Result	Result (Pass/Fail)	Reason	Note
TC # 6.1	Verify that User can easily Search product by its name or not.	Redirect User to the product page.	Pass		
TC # 6.2	Verify that User can view product or not.	Redirect User to the Product page.	Pass		



Test Case :7	Test Case title: Review product. Role (User).
Test Case Module ID: TC7	Test Designed by: Md Obaydullah
Test Priority: Medium	Requirement Functional Testing

Testing Objective: To make sure that User can review product.

Test Case ID	Test Case	Expected Result	Result (Pass/Fail)	Reason	Note
TC # 7.1	Verify that User can Review product.	Redirect User to the product Detail page.	Pass		



Requirement Management



Change Management

Stakeholder Request

Change Management Plan

SR#	Requirement Description	Priority	Status
R1	Mobile App of the System	High	pass
R2	Wallet System	Low	pass

Details of Changes:

1 – Mobile App of the System

After meeting the clients for changing it was decided that not now but in future there will be a mobile app of this system for stakeholders.

Status: Accepted.

2 – Wallet System.

The Wallet System should have added to the system, so the user can use wallet system instead of any payment method and should be deposit from any bank account. The icon of wallet on menu bar which shows the amount.

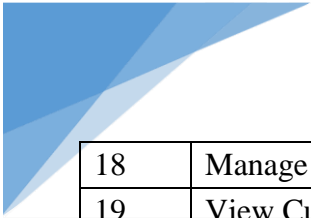
Status: Accepted.

Requirement Tracing:



Traceability Metric:

NO#	Module Name	Applicable Roles	Description
1	Create Account	Customer	User have to Create account to buy any thing
2	Login	Admin and Customer	Admin and Customer Both have to login but in a different context like admin have to login to perform task like CRUD operation etc. and User have to login in the system to buy anything.
3	Search Product	Customer	User can perform search operation on products.
4	Order Status	Customer	User can check order status that his/her order is on his/her way or not.
5	View Items	Customer	User can view al items/Products on Home Page of the Website.
6	Add To Cart	Customer	User can add item on cart.
1	Remove Item	Customer	User can remove item from his cart.
7	Buy	Customer	User can select any payment method to buy anything.
8	Payment	Admin and Customer	User can also perform COD etc. And admin can view it that payment is clear or not.
9	Manage Order	Admin and Customer	User can also perform Cancellation or Update order and It is based on time Limit and admin can view it that User canceled the order or update the order or not.
10	Review Product	Customer	User can give reviews to products.
11	Order History	Admin and Customer	Admin and User both can check their previous history.
12	Log Out	Admin and Customer	Admin and User Both can perform Logout.
13	Product Description	Admin	Only admin can add description of product.
14	Coupons	Admin	Only admin can add Coupons code. So that user can get discount on some products.
15	Manage Account	Admin and Customer	Admin and User Both can Update his/her profile.
16	Upload Image	Admin	Only admin can add Images of product.
17	CRUD Operation	Admin	Only admin can CRUD operation of product.



18	Manage Stock	Admin	Only admin can Manage Stock of product.
19	View Customer Detail	Admin	Only admin can view detail of registered Users.
20	Wallet Option	Customer	User can Wallet their money and can use it. Like Careen Mobile Application.

Plan Of Work

Our group believes in dedication and hard work as its quoted that “hard work is the key to success”. Our team consists of good web developers and our team members are skilled enough to document the hard work we are putting into this project. It would have been much more difficult to implement this project with less than three people because team size matters. Every team member is going to have an individual responsibility to take care of.

Programming cannot alone do the job; it needs proper methodology, documentation, testing and management to bring the best out of the project. We plan to give the client “the best”: The definition of “best” they believe in. Every individual has a different choice and has different priorities in their lives.

Teamwork can either make a project up to mark or let it fall below the mark, so we plan to work together and help each other out if any of the members faces a difficulty in their individual responsibility.

These individual responsibilities are assign to each of the member of the group: