ONLINE JEWELLERY SHOPPING WEBSITE

#### A Project Report

Submitted in partial fulfillment of the Requirements for the award of the Degree of

# BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)

**By**

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# THE KELKAR EDUCATION TRUST’S VINAYAK GANESH VAZE COLLEGE OF ARTS, SCIENCE AND COMMERCE

**(Autonomous)**

***(Affiliated to University of Mumbai)* MULUND, MAHARASHTRA, 400081 MAHARASHTRA**

**2021-2022**

# THE KELKAR EDUCATION TRUST’S VINAYAK GANESH VAZE COLLEGE OF ARTS, SCIENCE AND COMMERCE

**(Autonomous)**

**MULUND, MAHARASHTRA, 400081**

# DEPARTMETN OF INFORMATION TECHNOLOGY



**CERTIFICATE**

This is to certify that the projectentitled," ", is bonafied work of bearing Roll No: submitted in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE in INFORMATIONTECHNOLOGY.

### Internal Guide Head Of Department

**External Guide**

**Date:**

**THE APPROVAL PROJECT PROPOSAL**

(Note:All entries of the proforma of approval should be filled up with appropriate and complete information. Incomplete proforma of approval in any respect will be summarily rejected.)

# PNR No : 2019016400150135

|  |  |
| --- | --- |
| 1. Name of the Student | |
| Kunal Mewalal Kewat | |
| 2. Title of the Project | |
| Jewellery store website | |
| 3. Name of the Guide | |
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| 4. Is this your first submission? | |
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| Student Roll No. : | A026 |

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This opportunity has given me a valuable experience about software development for which I shall be thankful for the years to come.

# DECLARATION

I here by declare that the project entitled, “**Online Jewellery Shopping Website** ” done at place where the project is done, has not been in any case duplicated to submit to any other university for the award of any degree. To the best of my knowledge other than me, no one has submitted to any other university. The project is done in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY) to be submitted as final semester project as part of our curriculum.

Name : **Kunal Mewalal Kewat**

Signature :

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**Synopsis**

1. **Title:** Jewellery Store Website

### Statement about the problem

Online jewellery store website will help the customers to view the jewelleries of the different types, occasions, brands, for different people(of different age groups and genders), of different prices, materials, metals, etc. and do the shopping through the use of internet.

### Why This Topic

Internet is providing a as a channel now a days by consumers and vendors, Onlinejewellery store is usual or standard these days. The purpose is providing a platform for customers to shop virtually using internet, view many different and wide types and variety of jewelleries and to buy it by sitting at their home. Thus the computerization of a jewellery store will increase the ease, efficiency, and also reduce the chances of manual errors. This will also help the seller to increase its region and customers.

### Objective and scope

* + Online Shopping of jewelleries
  + Variety of brands to choose from
  + See what is currently trending
  + Search/shop by occasions
  + Shop by materials
  + Search for Gifts in jewelleries
  + See the jewelleries of different regions and their specialities
  + A little Guide about different metals, stone which is used to make jewelleries which can be helpful for the buyer to know how to buy or what they are looking for or how to search,etc.

Scope would be to provide basic functions using a web system so that the most of the manual functions or process can be automated.

### Methodology

To develop this system, I am going to use the Incremental model.

### Proposed Architecture

To create the system we will use the two tier architecture, the client-server architecture.

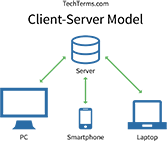


Fig 1.1 client server model

### Requirement

* 1. **Software Requirement**

Frontend: HTML5

Javascript CSS

Asp.net Backend: mysql

### Hardware Requirement

Processor: 1.9 gigahertz x86- or x64 bit dual core processor with SSE2 instruction set Memory: 1 GB or more

Display: Super VGA with a resolution of 1024 x 768

### Contribution

This website will help the help the customers to buy jewelleries from a wide variety of options and since all transaction will be online the jewelleries will be all certified and genuine. This will provide or work as a ground or platform for both the seller and buyer. It will also save the time and energy of physically visiting the different stores.

### Conclusion

This system will ease the shopping operations for customers and sellers. It will increase the customers of the sellers and also increase the variety to shop from for the customers and at the best price and the best product. It will provide the seller functionality to manage the categories and products, customers will be able to browse and search products under different categories. The buyer will be able to add the selected product or item into the shopping cart in side and the buyer will be able to access separateley whenever he/she wants to and then look /check for the price, products, quantity and then buy it at their choice. This would be their one of the main functions other than the usual functions.

# Chapter 1: Introduction

* 1. **Background :**

Jewels were always part of the human culture and life since the ancient times. As the advancement and growth was seen in the information and technology field the e-commerce and e-business also increased and as a result many or most of the businesses have now become online via the internet and the world wide web and as a result of this development now-a-days we can also see many websites that sell jewelleries over the internet. There are many famous websites that sell jewelleries like the Kalyan jewellers.com, bluestone.com, etc. this sites helps the buyer to purchase the jewllery from their home 24/ 7. The main goal of this sites is to sell the customers jewelleries at their convenience and ease.

# Objectives :

The objectives of the system are as follows :

* + - To automate or provide features that are provided by a jewellery store to the buyer online.
    - To add a home visit features by which the user can book an appointment with the seller to try or see the item at their house and then if they like it then they can buy it.
    - A collection of child section jewelry.
    - Customized jewelry feature.

# Purpose, scope and applicability :

### Purpose :

Is to provide the user solutions to the customer and vendor on the online jewelery stores, and build a site that is user friendly and easy to use by the different people or users.

### Scope :

To bring various types of jewels at a single place for the customer so that he can easily buy different types of jewellery from their home some of which that are not possible or available in that region .

It consists of some limitations for customers like noticifications, messaging, etc but which can be improved in future.

### Applicability :

* To bring the jewelery stores online and all of its function.
* It will automate most of the human work which is hard and can be time consuming, reducing the burden.
* Bring the consumers and vendors closers, and increase the e-business and motivate more people to use the e-business in their business works.

### Achievements :

My project helped me learn what are the different things involved while creating the website project and how should its planning and its initiations are to be carried and all the works involved before its coding and execution. It helped me to learn about various different tags of asp.net and C# and Bootstrap and how testing of a software is done.

# Chapter 2 : Survey Of Technologies

### HTML :

HTML is a markup language. It provides the structures of a website so that the web browser know what to show.

### CSS :

It is a cascading style sheet. CSS let’s web designers change colors, fonts, animations, and transitions on the web. They make the web look good.

### LESS & SASS :

They are a CSS pre-compiler to make working with CSS easier and add functionality.

### Programming Languages :

* + **JavaScript :**

JavaScript is a lightweight, interpreted, or just in time compiled programming language with first class function. While it is most well-known as the scripting language for webpages, many web browsers environments also use it, such as Node.js, Apache CouchDB, and adobe axrobat. JavaScript is a prototype based, multi-paradigm, single threaded, dynamic language, supporting object oriented, imperative and declarativee.g. functional programming) styles. It is used by all web browsers, meteor and lots of other frameworks.

### CoffeeScript:

It is a kind of “dialect” of javascript. It is viewed as simpler and easier on your eyes as a developer but it compiles or converts back into javascript. Coffeescript is an attempt to expose the good part of javascript in a simple way.the code compiles one to one into equivalent js and there is no interpretention at the runtime.you can use any existing javascript library seamlessely from coffeescript and vice-versa.the compiled output is readable, pretty-printed and tends to run as fast or faster than the equivalent handwritten javascript.

### Python :

It is one of the highly used programming languages. It is used by the Django framework and used in a lot of mathematical calculations.

### Ruby :

Used by the ruby or rails framework. It is a dynamic, open source programming languages with a focus on simplicity and productivity. It has an elegant syntax that is natural to read and easy to understand.

### PHP :

Used by wordpress. Php is a popular general-purpose scripting language that is especially suited to web development. Fast, flexible and pragmatic, PHP powers everything from your blog to most popular websites in the world.

### Java :

Used by androidGoogle) and a lot of desktop applications. Java is a commonly used language for the web development, especially on the server-side. Java web applications are distributed applications that run on the internet. Web applications that run on the internet. Web development with java allows us to create dynamic web pages where user can interact with the interface.

### Frameworks :

* + **Node.js :**

It is a server-side javascript framework. It is a JavaScript runtime built on chrome’s V8 JavaScript engine. As an asynchronous event-driven javascript runtime, Node.js is designed to build scalable network applications.

### Django :

Django is a high-level python web framework that encounters rapid development and clean, pragmatic design. Built by experienced developers, it takes cares of much of the hassle of web development, so you can focus on writing your app without needing to reinvent the wheel. It’s free and open source.

### Bootstrap :

A UIuser interface) framework for building with HTML/CSS/JavaScript.

### Foundation:

A UIuser interface) framework for building with HTML/CSS/JavaScript.

### Wordpress :

A CMScontent management system) built on php. Currently, about 20% of all websites run on this framework.

### .NET :

It is a full-stack framework built by Microsoft. It includes a large class library called Framework class library and provides language interoperability across several programming languages.

### Angular.js :

It is a front-end javascript framework. AngularJS lets you extend HTML vocabulary for your applications. The resulting environment is extraordinary expressive, readable, and quick to develop.

### Databases:

* + **MongoDB :**

It is an open-sourced NoSQL database and is currently the only database supported by Meteor. It’s document data model naturally supports JSON and its expressive query language is simpler for developers to learn and use. Functionality such as automatic failover, horizontal scaling, and the ability to assign data to a location are built-in.

### Redis :

It is the most popular key-value store. It is lighting fast for retrieving data but doesn’t allow for much depth in the data storage. It has built in replication ,Lua scripting, LRU eviction, transactions and different levels levels of on disk persistence,and provides high availability via Redis Sentinel and automatic partiioning with Redis Cluster.

### MySQL :

It is another popular open sourced SQL database. MySQL is used in wordpress websites.

### SQL server :

It is an SQL server manager created by Microsoft.

### Data Formats :

It is the structure of how the data is stored.

### JSON :

It is quickly becoming the most popular data format. It is a lightweight data interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate.

### XML :

It was the main data format early in the web days and predominantly used by Microsoft systems.

### CSV :

It’s data is formatted with commas. Excel data is typically formatted this way.

#### The technologies/system which will be used for the creation of the systems are:

1. **HTML5**

#### CSS

1. **JAVASCRIPT**

#### MS-SQL SERVER 2008

1. **Asp.net**

#### Bootstrap3

1. **C#**

# Chapter 3 : Requirements And Analysis

* 1. **Problem Definition :**

The system is built to make online shopping of jewelleries easy for the customer, so they can buy jewelery online just like how they do other shoppings online. The seller and the administrator will be able to add or remove a particular categories, items. The user will be able to browse different categories , book for a home visit, request for a customized item. The categories will contains a set of collections of a particular type of jewelery in each category for e.g. rings will contain all the rings, gold items will contain all gold items, necklaces will contain all the necklaces, etc. They can also search by or apply different filters like by price range, quality, brands, etc.

# Requirement Specifications :

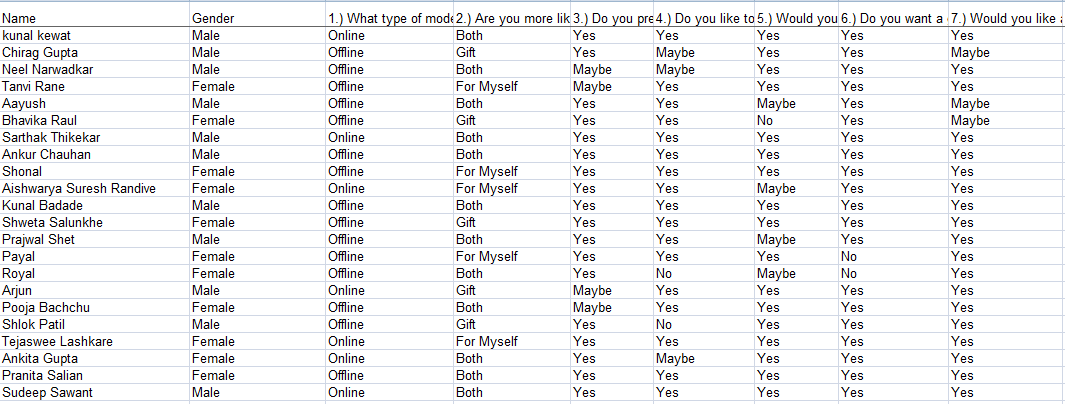
### Requirement Gathering :

The information on requirement was gathered by asking some questions and taking some opinions of different peoples. The questionnaire was prepared and passed by using Google forms, the link of the form is <https://forms.gle/M6QtbJihZfEZfeTh8>.

The questions that were asked are as follows :

1. What type of mode for shopping jewellery would you prefer
2. Are you more likely to buy jewellery for yourself or as a gift
3. Do you prefer Hallmark & Certified jewelleries
4. Do you like to get your own customized or custom-made jewelleries according to your preferences
5. Would you like a home visit and trial feature for the jewellery you saw online
6. Do you want a good and proper customer feedback and response system
7. Would you like a jewellery guide that will help you to know about the different gems, metals and the how to choose which one you want
8. What mode of payment do you prefer
9. What is the Criteria by which you normally browse jewellery while buying it
10. While buying jewellery do you see whether you are getting good customer and after sales service
11. What type of jewellery do you prefer
12. Is there any features or idea that you would want to be present in the Jewellery Shopping Website
13. What are the difficulties or any problem or anything that you don't like while purchasing jewelleries online

Based on these above questions the responses of the people who filled the form was recorded and they are all shown below :



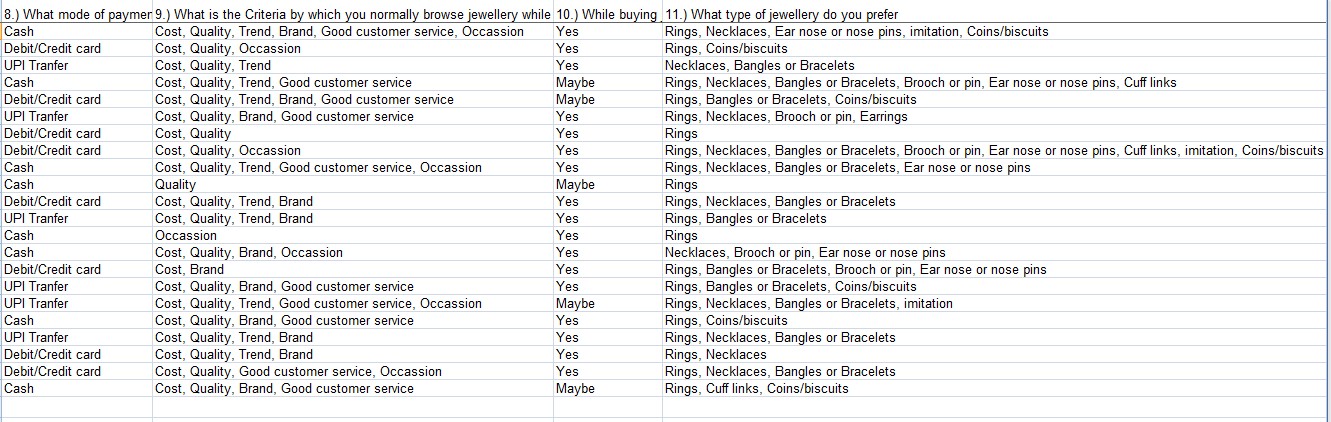


Fig 3.1 requirements gathered The response to the problems that they normally seek are :

* Don't receive product as shown in pictures
* Sometimes it may be fake or less carat gold than expected.
* Duplicate jewellery
* That the products seen online and on order they look so much different. Quality Compromises are their.

The response about any features that they wished there was in the website are as follows :

* 3D trial, same as offered on lenskart must be accurate and not a gimmick.
* Notification when the price of gold will be lowest of month
* Searching option on basis of name of jewellery. Such as if I type necklace all preference of necklace should be shown not other option.
* Various Varieties , Trending jewellery , user friendly website.

### 3.2.2.) Requirement Analysis : 3.2.2.1.) Functional Requirements :

* + **Browsing the item:**

The user can browse the different prices, its price, details, features, seller, its availability and its other information.

### Genuine:

All the items that are sold in the website should be Genuine and proper,

the user must not get any false items and low quality goods.

### Searching :

This will allow the user to search the item by its name.

### Invoice :

Proper bill of the order which contains the order id, payment type and amount, and the customer details who purchased it should be created with every order.

### Manage the items :

The seller/administrator should be able to manage the items

and add/remove a item.

### Product Description :

Proper description will be given to the respective products along with the images.

### 3.2.2.2.)Non-Functional Requirements :

* + **Satisfaction:**

The user must be satisfied of all the purchase that is been done and this can only be achieved if the user gets the proper item, delivery, services, etc.

### Delivery :

The user must get proper delivery and on time on which it is said to be delivered and the item that he had booked and it shouldn’t be damaged in the delivery process.

### Customer- Feedback:

All the customers queries and complaints should be solved efficiently and fast, and proper response should be given to the customer.

### Security :

All the data regarding the customer information’s, their purchases, their payment information, etc should be secured and should not be disclosed to anyone and not be misused

### Availability :

The system must work properly without any failure in it and it should be a stable system.

### Quality :

The website and all the items quality must be good and should and what is expected by the people who asked for it or the user, it shouldn’t provide a less quality product(both website and the items) than what is expected to be and have been mentioned.

### Efficiency :

It is the extent to which the software system handles capacity, throughput, and response time.

### Portability :

It provides the ease with which a software system can be transferred from its current hardware or software environment to another environment, how a software will work on different systems.

### Reliability :

The system should be reliable and should work under the stated conditions.

### System Requirements :

* + - **Registration :**

The user must first register its account in order to use the site. Without registering the user will be able to use the website but will be limited to only browsing the items in it.

* + - * Input : User Details
      * Output : Registration successful
      * PreCondition : No existing user with same credentials
      * PostCondition : User able to login in with his/her account

### Login :

After registering the user will have to login in the system by the username/id and the password and after it is verified by the registered id and password the user will be logged in the system.

* + - * Input : username and password
      * Output : successful login
      * PreCondition : user should be registered
      * PostCondition : moved to user home page

### Cart :

The user will be able to add the products or items they like in the cart for their future ease in finding the product and buying.

* + - * Input : add product to cart
      * Output : product added to cart
      * PreCondition : user should have logged in
      * PostCondition : item available in cart

### Categories :

Different products will be placed in different categories to which it belong so it will be easier to find a certain type of product by accessing the categories to which it belongs.

* + - * Input : search category
      * Output : show the categories item
      * PreCondition : valid category
      * PostCondition : all item in the category are shown

### Filters :

While browsing and searching the products the user can apply different filters they want like a price range, brand, metal, gems, etc. which will make it easier to search products based on the certain filter or choices.

* + - * Input : apply filter
      * Output : products display according to filter
      * PreCondition : valid filter
      * PostCondition : filter applied

### Guide :

There will be a guide which will tell the user about the different types of

jewelleries and the basis on which they are made and what does a certain type or cutting, etc mean when we see the item or its description when we buy it.

* + - * Input : clicked on guide page
      * Output : guide page available
      * PreCondition : guide book selected
      * PostCondition : user is able to see guide book

### Search bar :

The user can simply type the name of the product inside the search bar and search the products.

* + - * Input : product name
      * Output : shows the result of search
      * PreCondition : product with that name available
      * PostCondition : shows the list of products with the search result

### Brands :

There will be different brands available and the user can see the different products that are available in the brands.

* + - * Input : brand name
      * Output : shows product of that brand
      * PreCondition : brand available on site
      * PostCondition : shows all product of the brand

### 3.3. Task Table and Gantt Chart :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Task No.** | **Task Name** | **Starting Date** | **Ending Date** | **Actual Starting**  **Date** | **Actual Ending**  **Date** |
| T1 | Synopsis | 26-Jun-21 | 29-Jun-21 | 26-Jun-21 | 2-Jul-21 |
| T2 | Approval | 4-Jul-21 | 6-Jul-21 | 4-Jul-21 | 10-Jul-21 |
| T3 | Chapter-1 Introduction | 6-Jul-21 | 9-Jul-21 | 6-Jul-21 | 24-Jul-21 |
| T4 | Chapter-2 Survey of  Technology | 13-Jul-21 | 17-Jul-21 | 14-Jul-21 | 20-Jul-21 |
| T5 | Chapter-3 .1 Requirement  Gathering | 20-Jul-21 | 24-Jul-21 | 20-Jul-21 | 9-Aug-21 |

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| --- | --- | --- | --- | --- | --- |
| T6 | Chapter-3.2 Requirement  Analysis | 27-Jul-21 | 31-Jul-21 | 29-Jul-21 | 9-Aug-21 |
| T7 | Chapter 3.3 Task Table and  Gantt Chart | 10-Aug-21 | 13-Jul-21 | 10-Aug-  21 | 25-Aug-21 |
| T8 | Chapter 4 System Design   * 1. Business rule   2. Module Diagram   3. Er Diagram | 24-Aug-21 | 30-Aug-  21 | 24-Aug-  21 | 5-Sep-21 |
| T9 | Chapter 4.4 Schema Diagram | 30-Aug-21 | 3-Sep-21 | 30-Aug-  21 | 8-Sep-21 |
| T10 | Chapter 4.5 Data flow  diagram | 3-Sep-21 | 7-Sep-21 | 6-Sep-21 | 19-Sep-21 |
| T11 | Chapter 4.6 Class Diagram | 20-Sep-21 | 24-Sep-  21 | 20-Sep-21 | 25-Sep-21 |
| T12 | Chapter 4.7 Use Case  Diagram | 20-Sep-21 | 24-Sep-  21 | 20-Sep-21 | 6-Oct-21 |
| T13 | Chapter 4.8 Sequence  Diagram | 4-Oct-21 | 8-Oct-21 | 4-Oct-21 | 11-Oct-21 |
| T14 | Chapter 4.9 Activity  Diagram | 5-Oct-21 | 9-Oct-21 | 5-Oct-21 | 11-Oct-21 |
| T15 | Chapter 4.10 State Chart  Diagram | 6-Oct-21 | 10-Oct-21 | 6-Oct-21 | 11-Oct-21 |
| T16 | Chapter 4.11 UI Design | 10-Oct-21 | 13-Oct-21 | 10-Oct-21 | 11-Oct-21 |
| T17 | Chapter 4.12 Test Cases | 17-Oct-21 | 19-Oct-21 | 17-Oct-21 | 15-Oct-21 |
| T18 | **Re-engineering**  Chapter 1 | 20-Nov-21 | 21-Nov-  21 | 20-Nov-  21 | 21-Nov-21 |
| T19 | Chapter 2 | 20-Nov-21 | 21-Nov-  21 | 20-Nov-  21 | 21-Nov-21 |
| T20 | Chapter 3 | 21-Nov-21 | 22-Nov-  21 | 21-Nov-  21 | 22-Nov-21 |

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| --- | --- | --- | --- | --- | --- |
| T21 | Chapter 4 | 22-Nov-21 | 23-Nov-  21 | 22-Nov-  21 | 23-Nov-21 |
| T22 | **Unit 1 : Registration & Login Page**  Design Module login | 30-Nov-21 | 1-Dec-21 | 30-Nov-  21 | 1-Dec-21 |
| T23 | Debugging Module login | 1-Dec-21 | 2-Dec-21 | 1-Dec-21 | 2-Dec-21 |
| T24 | Testing Module login | 1-Dec-21 | 2-Dec-21 | 1-Dec-21 | 2-Dec-21 |
| T25 | Design Module register | 2-Dec-21 | 3-Dec-21 | 2-Dec-21 | 3-Dec-21 |
| T26 | Debug Module register | 3-Dec-21 | 4-Dec-21 | 3-Dec-21 | 4-Dec-21 |
| T27 | Testing Module register | 3-Dec-21 | 4-Dec-21 | 3-Dec-21 | 4-Dec-21 |
| T28 | Integrating Unit 1 | 4-Dec-21 | 5-Dec-21 | 4-Dec-21 | 5-Dec-21 |
| T29 | Debugging 1 | 4-Dec-21 | 5-Dec-21 | 4-Dec-21 | 5-Dec-21 |
| T30 | Testing Unit 1 | 4-Dec-21 | 5-Dec-21 | 4-Dec-21 | 5-Dec-21 |
| T31 | **Unit 2 : Home Page**  Design Home Page | 6-Dec-21 | 8-Dec-21 | 7-Dec-22 | 9-Dec-22 |
| T32 | Debugging Home Page | 8-Dec-21 | 9-Dec-21 | 9-Dec-22 | 10-Dec-22 |
| T33 | Testing Home Page | 9-Dec-21 | 10-Dec-  21 | 10-Dec-22 | 11-Dec-22 |
| T34 | Unit Integration 1 & 2 | 11-Dec-21 | 13-Dec-  21 | 11-Dec-22 | 13-Dec-22 |
| T35 | Debugging | 12-Dec-21 | 13-Dec-  21 | 13-Dec-22 | 14-Dec-22 |
| T36 | Testing | 13-Dec-21 | 14-Dec-  21 | 13-Dec-22 | 14-Dec-22 |
| T37 | **Unit 3: Admin Home Page**  Design Admin Home Page | 14-Dec-21 | 16-Dec-  21 | 14-Dec-22 | 16-Dec-22 |
| T38 | Debugging Admin Home  Page | 16-Dec-21 | 17-Dec-  21 | 16-Dec-22 | 17-Dec-22 |
| T39 | Testing Admin Home Page | 16-Dec-21 | 17-Dec-  21 | 17-Dec-22 | 18-Dec-22 |

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| --- | --- | --- | --- | --- | --- |
| T40 | Unit Integration 1&2&3 | 18-Dec-21 | 20-Dec-  21 | 19-Dec-22 | 20-Dec-22 |
| T41 | Debugging | 18-Dec-21 | 19-Dec-  21 | 20-Dec-22 | 21-Dec-22 |
| T42 | Testing | 19-Dec-21 | 20-Dec-  21 | 21-Dec-22 | 23-Dec-22 |
| T43 | **Unit 4 : Add Products**  Design Add Products | 21-Dec-21 | 28-Dec-  21 | 23-Dec-22 | 8-Jan-22 |
| T45 | Debugging Add Products | 29-Dec-21 | 2-Jan-21 | 8-Jan-22 | 9-Jan-22 |
| T46 | Testing Add Products | 2-Jan-21 | 3-Jan-21 | 9-Jan-22 | 10-Jan-22 |
| T47 | Unit Integration 1 2 3 4 | 3-Jan-21 | 5-Jan-21 | 10-Jan-22 | 11-Jan-22 |
| T48 | Debugging | 6-Jan-21 | 7-Jan-21 | 11-Jan-22 | 12-Jan-22 |
| T49 | Testing | 7-Jan-21 | 8-Jan-21 | 11-Jan-22 | 12-Jan-22 |
| T50 | **Unit 5: View Products**  View Products Design | 9-Jan-21 | 11-Jan-22 | 12-Jan-22 | 14-Jan-22 |
| T51 | View Products Debugging | 11-Jan-22 | 12-Jan-22 | 15-Jan-22 | 16-Jan-22 |
| T52 | View Products Testing | 12-Jan-22 | 13-Jan-22 | 15-Jan-22 | 16-Jan-22 |
| T53 | Unit Integration 1 2 3 4 5 | 13-Jan-22 | 14-Jan-22 | 16-Jan-22 | 17-Jan-22 |
| T54 | Debugging | 15-Jan-22 | 16-Jan-22 | 17-Jan-22 | 18-Jan-22 |
| T56 | Testing | 16-Jan-22 | 17-Jan-22 | 18-Jan-22 | 19-Jan-22 |
| T57 | **Unit 6: Edit Products & Categories**  Edit Products & Categories  Design | 17-Jan-22 | 19-Jan-22 | 20-Jan-22 | 22-Jan-22 |
| T58 | Edit Products & Categories  Debugging | 19-Jan-22 | 20-Jan-22 | 22-Jan-22 | 23-Jan-22 |
| T59 | Edit Products & Categories  Testing | 20-Jan-22 | 21-Jan-22 | 23-Jan-22 | 24-Jan-22 |
| T60 | Unit Integration | 21-Jan-22 | 22-Jan-22 | 24-Jan-22 | 25-Jan-22 |
| T61 | Integration Debugging | 22-Jan-22 | 23-Jan-22 | 25-Jan-22 | 26-Jan-22 |

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| --- | --- | --- | --- | --- | --- |
| T62 | Integration Testing | 24-Jan-22 | 25-Jan-22 | 26-Jan-22 | 27-Jan-22 |
| T61 | **Unit 7: User Cart**  Cart Design | 25-Jan-22 | 27-Jan-22 | 28-Jan-22 | 30-Jan-22 |
| T62 | Cart Debugging | 27-Jan-22 | 28-Jan-22 | 30-Jan-22 | 31-Jan-22 |
| T63 | Cart Testing | 28-Jan-22 | 29-Jan-22 | 1-Feb-22 | 1-Feb-22 |
| T64 | Unit Integration | 29-Jan-22 | 30-Jan-22 | 2-Feb-22 | 3-Feb-22 |
| T65 | integration Debugging | 30-Jan-22 | 31-Jan-22 | 3-Feb-22 | 4-Feb-22 |
| T66 | integration testing | 31-Jan-22 | 1-Feb-22 | 4-Feb-22 | 5-Feb-22 |
| T67 | **Unit 8: Categories View**  Categories View Design | 2-Feb-22 | 5-Feb-22 | 5-Feb-22 | 7-Feb-22 |
| T68 | Categories View Debugging | 5-Feb-22 | 6-Feb-22 | 7-Feb-22 | 8-Feb-22 |
| T69 | Categories View Testing | 5-Feb-22 | 6-Feb-22 | 8-Feb-22 | 9-Feb-22 |
| T70 | Unit Integrations | 6-Feb-22 | 7-Feb-22 | 9-Feb-22 | 10-Feb-22 |
| T71 | Integration Debugging | 7-Feb-22 | 8-Feb-22 | 10-Feb-22 | 11-Feb-22 |
| T72 | Integration Testing | 7-Feb-22 | 8-Feb-22 | 11-Feb-22 | 12-Feb-22 |
| T73 | **Unit 9: Review**  Review Design | 8-Feb-22 | 9-Feb-22 | 12-Feb-22 | 13-Feb-22 |
| T74 | Review Debugging and  Testing | 9-Feb-22 | 10-Feb-  22 | 13-Feb-22 | 14-Feb-22 |
| T75 | Unit Integration | 10-Feb-22 | 11-Feb-  22 | 13-Feb-22 | 14-Feb-22 |
| T76 | Integration Debugging | 11-Feb-22 | 12-Feb-  22 | 14-Feb-22 | 15-Feb-22 |
| T77 | Integration Testing | 12-Feb-22 | 13-Feb-  22 | 15-Feb-22 | 16-Feb-22 |
| T78 | **Unit 10 : Search Products**  Search Design | 14-Feb-22 | 16-Feb-  22 | 16-Feb-22 | 17-Feb-22 |
| T79 | Search Debugging | 16-Feb-22 | 17-Feb-  22 | 17-Feb-22 | 18-Feb-22 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| T80 | Search Testing | 17-Feb-22 | 18-Feb-  22 | 18-Feb-22 | 19-Feb-22 |
| T81 | Unit Integration | 18-Feb-22 | 19-Feb-  22 | 19-Feb-22 | 20-Feb-22 |
| T82 | Integration Debugging | 19-Feb-22 | 20-Feb-  22 | 20-Feb-22 | 21-Feb-22 |
| T83 | Integration Testing | 20-Feb-22 | 21-Feb-  22 | 21-Feb-22 | 22-Feb-22 |
| T84 | **Unit 11 : Buy Products**  Buy Design | 22-Feb-22 | 28-Feb-  22 | 23-Feb-22 | 3-Mar-22 |
| T85 | Buy Debugging | 28-Feb-22 | 1-Mar-22 | 3-Mar-22 | 4-Mar-22 |
| T86 | Buy Testing | 1-Mar-22 | 2-Mar-22 | 4-Mar-22 | 5-Mar-22 |
| T87 | Unit Integration | 2-Mar-22 | 3-Feb-22 | 5-Mar-22 | 6-Mar-22 |
| T88 | Integration Debugging | 4-Mar-22 | 5-Mar-22 | 6-Mar-22 | 7-Mar-22 |
| T89 | Integration Testing | 6-Mar-22 | 7-Mar-22 | 7-Mar-22 | 8-Mar-22 |
|  |  |  |  |  |  |

Table 3.1 Task Table

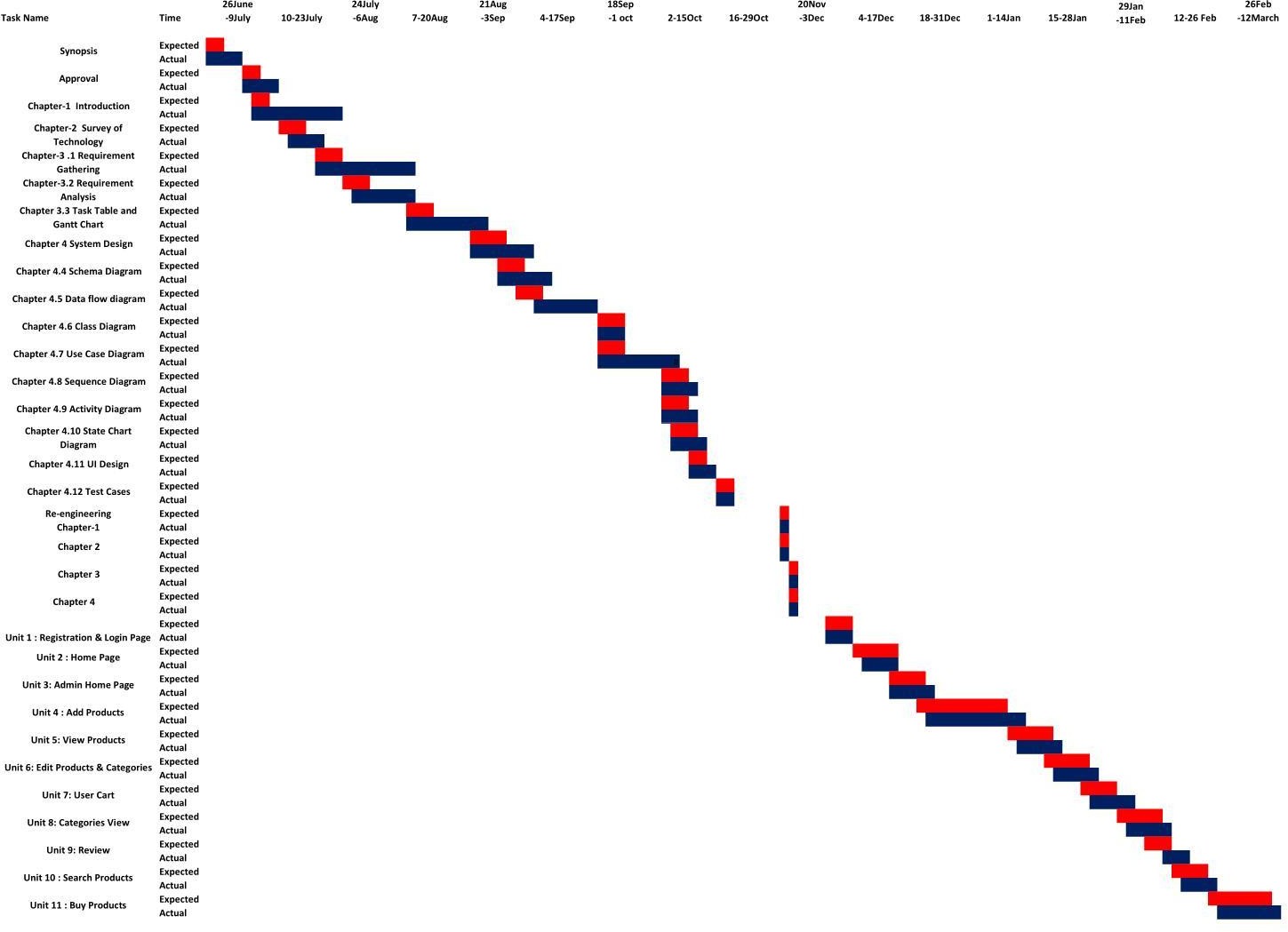


Figure 3.2 Gantt Chart

# Chapter 4 : System Design

### Business Rule :

* + - When the web application is opened the user can either use it as a guest user or a registered user.
    - The guest user can only browse and see the different items, categories in the website.
    - The registered user will be able to use all the features that the guest user can use plus they can use other features that are present like using the cart, order the product.
    - If a user is already registered then they can simply login by entering their email/phone number and the password.
    - While registering the user will have to a password which will be composed of minimum 1 capital letter, 1 small letter, 1 number, 1 special character, and the length of the password will be between 8 to 16.

### Module Diagram :

Module diagram is a diagram which is used for showing the allocation of classes and objects to module in the physical design of a system. Module Diagram indicates the partitioning of the system architecture. Through these diagram , it is possible to understand the general physical architecture of a system. The two essential elements of a module diagram are modules and their dependencies.

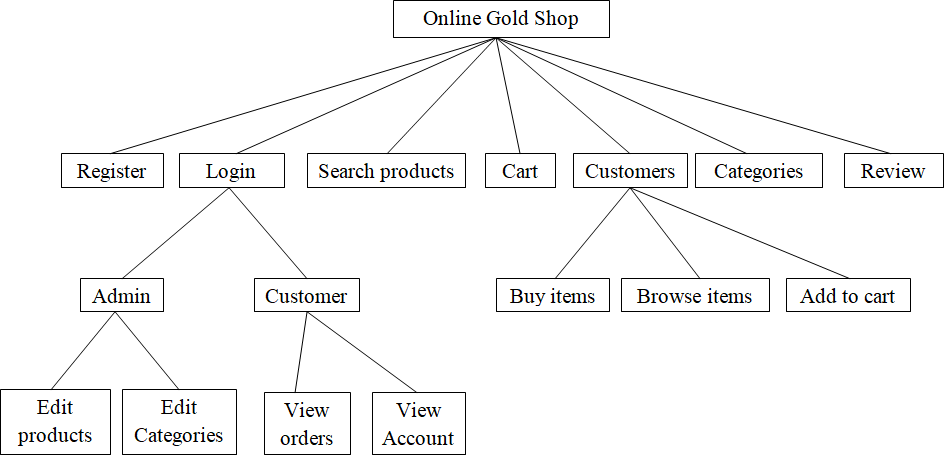


Fig 4.1 Module diagram

### ER Diagram :

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Symbol** | | **Description** |
| Rectangle |  | | Entity Set |
| Double Rectangle |  | | Weak entity set |
| Eclipse |  | | Attribute |
| Double Eclipse |  | | Multivalued Attribute |
| Dotted Eclipse |  | | Derived Attribute |
| Diamond |  | | Relationship set |
| Double Diamond |  | | Multi Valued attributes |
| Line |  | | Links attribute to entity set or  entity set to a relationship set |
| Double Line |  | | Represents Total participation of  entity |
| Many to many |  | | Many to many relationship |
| Many to One |  | | Many to One Relationship |
| One to One |  | | One to One |
| IS A |  |  | IS A(Specialization or Generalization) |
| ISA | |

Table 4.1 Er diagram notations

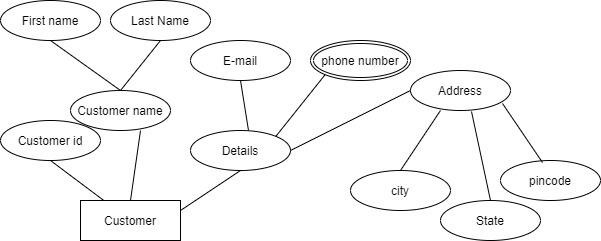
### Entity Sets :

* + - * Customer :

It will contain all the details of the customer that are registered in the system.

Attributes:

* + - * + Customer id
        + Name
        + Phone number
        + Email
        + Password
        + City
        + Pincode
        + State
        + Address



* + - * Order :

Fig 4.3.1.1 customer entity set

It will contain the details about the order that are made by the customer Attributes:

* + - * + Order id
        + Customer id
        + Customer name
        + Order number
        + Order details
        + Order date
        + Order quantity

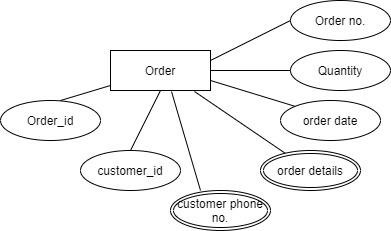


Fig 4.3.1.2 order entity set

* + - * Category :

Attributes :

It has the details about the various category that are used.

* + - * + Category Id
        + Category name
        + Description

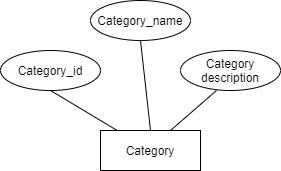


Fig 4.3.1.3 category entity set

* + - * Product:

It contains the details about the products that are present in the system.

Attributes:

* + - * + Product id
        + Product name
        + Product Description
        + Product Price
        + Product type
        + Stock
        + Category name

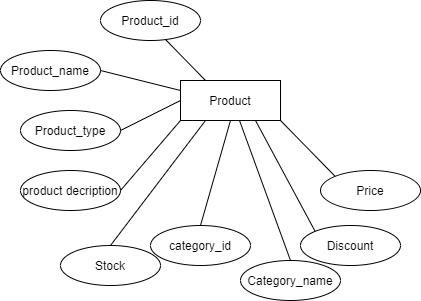


Fig 4.3.1.4 product entity set

* + - * Billing info:

It will contain the information about the order that is placed and its billing

information.

Attributes:

* + - * + Bill date
        + Billing address
        + Billing id
        + Payment method
        + Order id
        + Customer name
        + Address

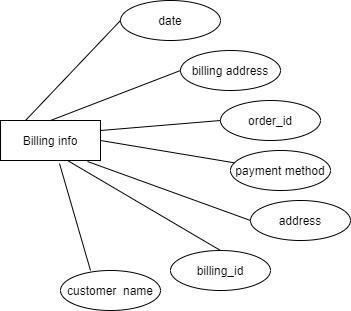


Fig 4.3.1.5 billing info entity set

* + - * Cart :

It will have the details about the products that are been saved in the cart.

Attributes :

* + - * + Product id
        + Product name
        + product price
        + Grand total
        + Product type
        + Subtotal

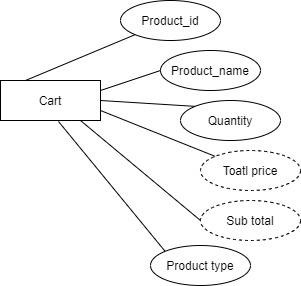


Fig 4.3.1.6 cart entity set

* + - * Feedback :

Attributes :

It will store the feedback given by the customer.

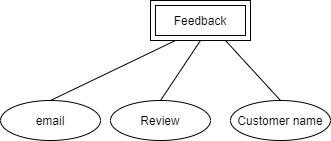
* + - * + Email
        + Review
        + Name

Fig 4.3.1.7 Feedback entity set

### Relationship Sets :

* + - * Feedback entity set and Customer entity set:
* Feedback will use the details of the customers while executing.
* It will have a one to many cardinality.

feed relation.jpg

Fig 4.3.2.1 customer feedback relation

* + - * Order entity set and Customer entity set :
* while doing the order the order entity set will use the various information of the customer entity set
* It will have a one to many cardinality.

customer order.jpg

Fig 4.3.2.2 customer order relation

* + - * Billing info entity set and Order entity set :
* When the bill will be prepared it be depended on the order entity set for the details
* It will have an one to many cardinality

order billing.jpg

Fig 4.3.2.3 order billing info relation

* + - * Product entity set and Category entity set :
* Each product will belong to a certain category that are present in the database.
* It will have a one to many cardinality

product category.jpg

Fig 4.3.2.4 product & category relation

* + - * Cart entity set and product entity set :
* Cart will store products in it so it will have a relationship with product entity set
* It can have a many to many cardinality

cart rt.jpg

Fig 4.3.2.1 Product & cart relation

### ER Diagram:

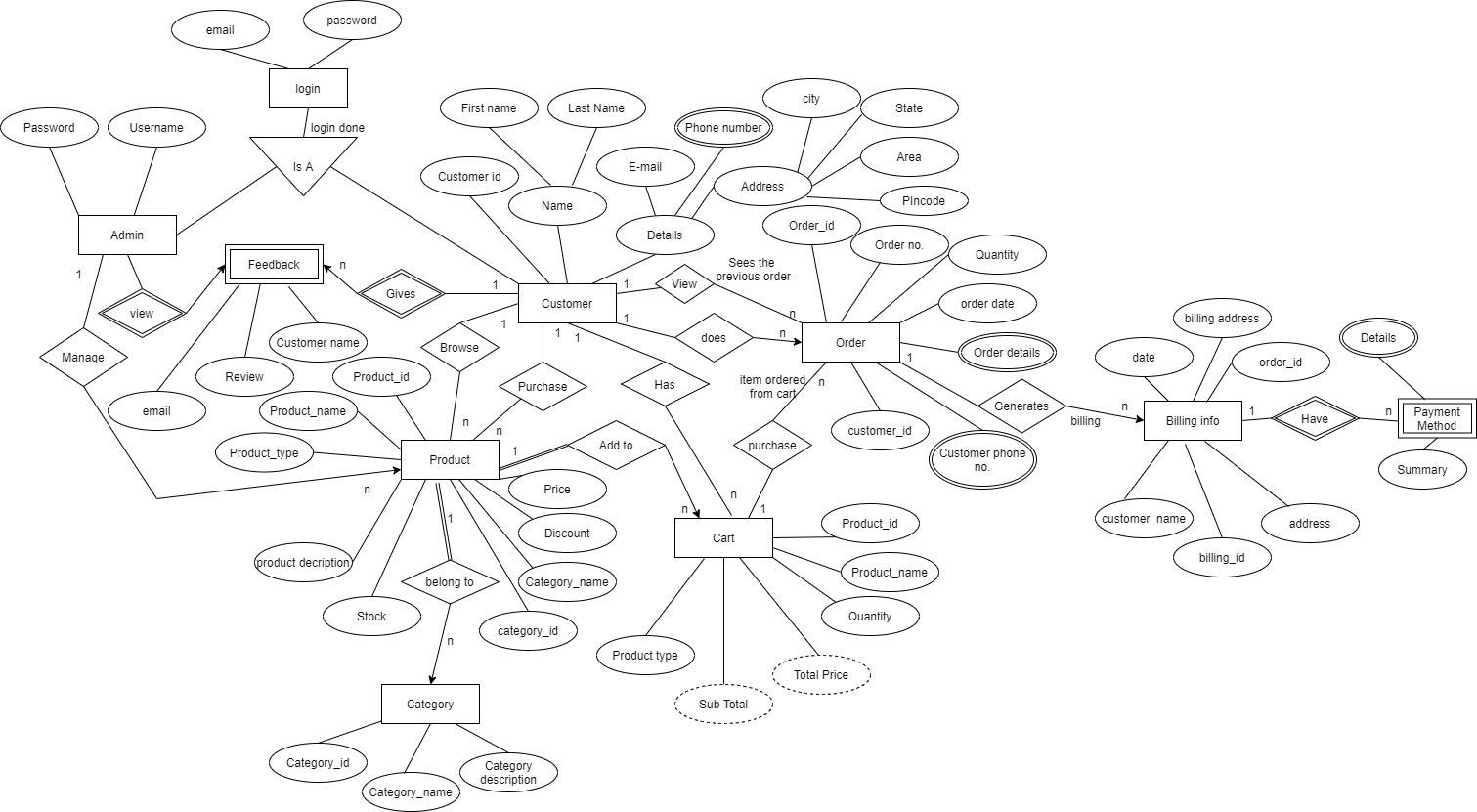


Fig 4.3 er diagram

### Schema Diagram :

A database schema is the skeleton structure that represents the logical view of the entire database. It defines how the data is organized and how the relations among them are associated. It formulates all the constraints that are to be applied on the data.

### Symbols :

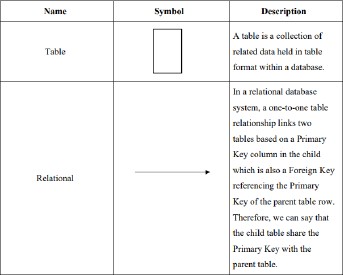


Table 4.2 Schema diagram notations

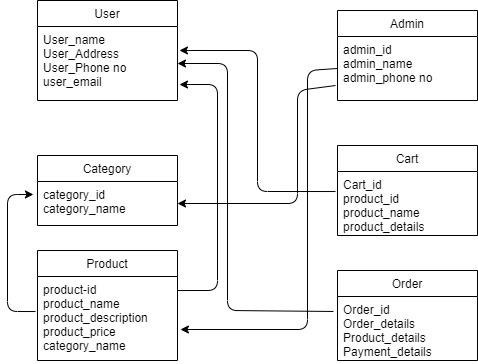


Fig 4.4 schema diagram

### Data Flow Diagram(DFD) :

A data-flow diagram is a way of representing a flow of data through a process or a system (usually an information system). The DFD also provides information about the outputs and inputs of each entity and the process itself. A data-flow diagram has no control flow — there are no decision rules and no loops. Specific operations based on the data can be represented by a flowchart.

### Symbols :

|  |  |  |
| --- | --- | --- |
| **Name** | **Symbols** | **Description** |
| Data Process |  | A process transforms incoming data flow into  outgoing data flow |
| Data Store |  | Data store are the repositories of data in the system |
| Data Flow |  | Data flow are pipelines through which packets of information flow. Label the arrows with the name of the data with the name of the data  that moves through it. |

Table 4.3 DFD Notations

### Level 0 for Online jewellery shopping website :

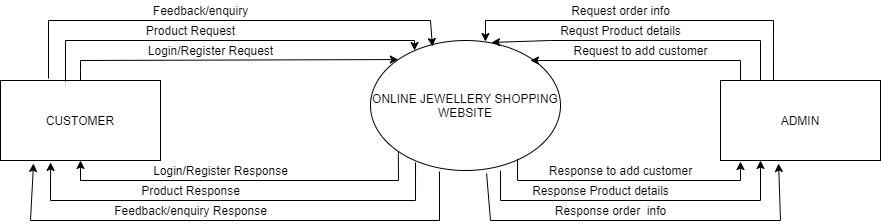
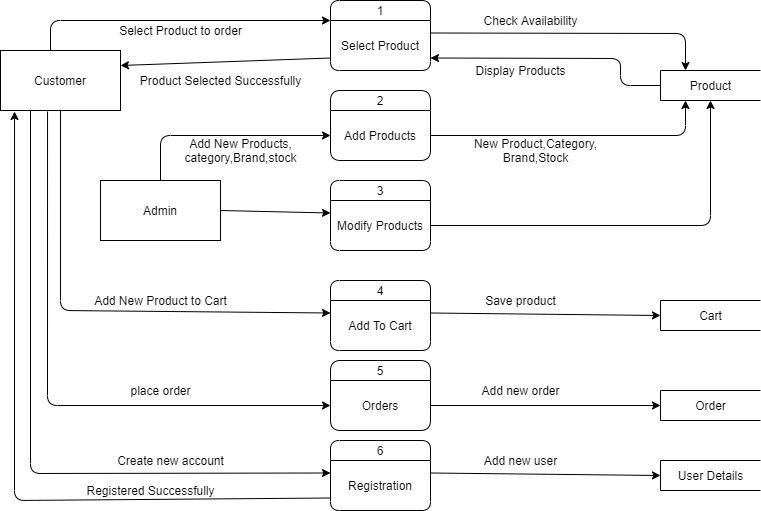


Fig 4.5 level 0 DFD

**DFD Level 1** :



## Fig 4.5.1 level 1DFD

### DFD Level 2 Add new Products :

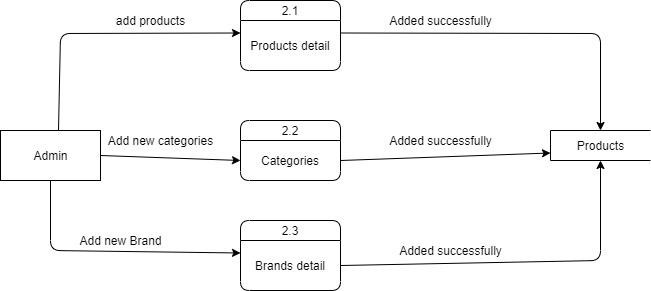


Fig 4.5.1.1 DFD Level2 add new products

### DFD Level 2 Modify Products :

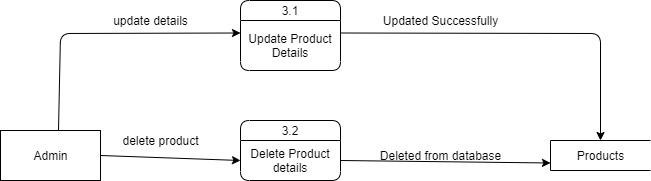


Fig 4.5.1.2 DFD Level2 modify products

### DFD Level2 User Cart :

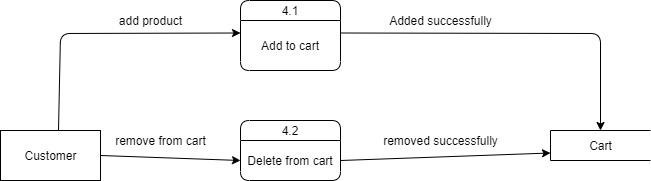


Fig 4.5.1.3 DFD Level2 User Cart

### DFD Level2 User order :

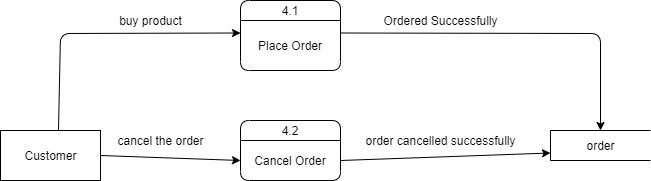


Fig 4.5.1.4 DFD Level2 order

### DFD Level2 Register :

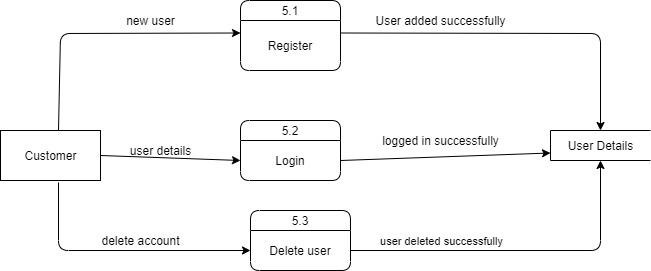


Fig 4.5.1.5 DFD Level2 Register

### Class Diagram :

A class diagram in the Unified Modeling Language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, operations (or methods), and the relationships among objects.

The class diagram is the main building block of object-oriented modeling. It is used for general conceptual modeling of the structure of the application, and for detailed modeling, translating the models into programming code. Class diagrams can also be used for data modeling. The classes in a class diagram represent both the main elements, interactions in the application, and the classes to be programmed.

In the diagram, classes are represented with boxes that contain three compartments:

* + - The top compartment contains the name of the class. It is printed in bold and centered, and the first letter is capitalized.
    - The middle compartment contains the attributes of the class. They are left-aligned and the first letter is lowercase.

The bottom compartment contains the operations the class can execute. They are also left-aligned and the first letter is lowercase.

### Symbols :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Symbols | | | Description |
| Class |  | | | Shows architecture and feature, methods and attributes of a class |
|  | Class |  |
| Attribut |
| Method |
|  | | |
| Association |  | | | Shows the relation between  class |

Table 4.4 Notation of class diagram

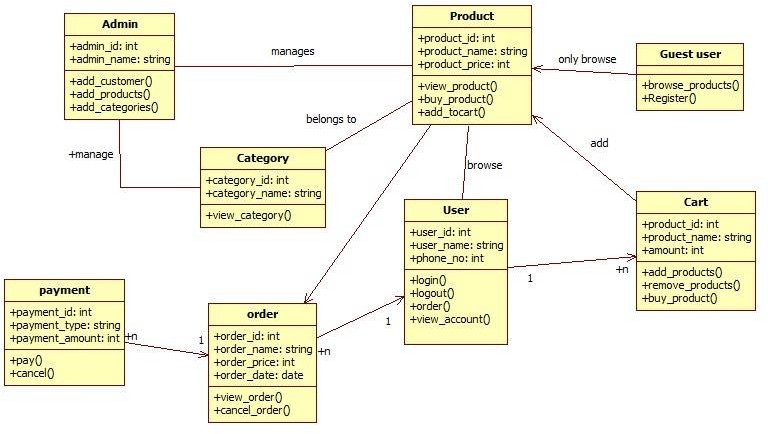


Fig 4.6 Class Diagram

### Use Case Diagram :

A use case diagram is a graphical depiction of a user's possible interactions with a system. A use case diagram shows various use cases and different types of users the system has and will often be accompanied by other types of diagrams as well.

### Symbols:

|  |  |  |
| --- | --- | --- |
| **Name** | **Symbols** | **Description** |
| Actor |  | An actor is the person participation in the interaction with the system |
| Use Case |  | It represents some action that  might be performed |

Table 4.5 Notation of Use Case

* Use Case :**CUSTOMER LOGINS .**
  + **Description :**the customer using the website sign in into his/her respective account.
  + **Actors:** Customer.
  + **Pre-Condition:** user has already registered .
  + **Post-condition:** the user will have access to the account , and can manage their cart, account, and orders ,etc.
* Use Case :**CUSTOMER ADDS ITEM TO CART .**
  + **Description :**the item that the user likes and want to buy later he can store that item in the cart for the easy access.
  + **Actors:** customer.
  + **Pre-Condition:** user has already logged inside .
  + **Post-condition:** the user can either checkout the products in the cart for delivery or can continue browsing other products.
* Use Case :**CUSTOMER ORDERS THE PRODUCT .**
  + **Description :**Order the product that they wants to buy.
  + **Actors:** customer.
  + **Pre-Condition:** The product is available (in stock and is available for delivery in that region/area) .
  + **Post-condition:** the user fills all details of delivery and payment(according to the choice selected for the payment for the payment method) and submit it and wait for the delivery accordingly.
* Use Case :**CUSTOMER ADDS ITEM TO CART .**
  + **Description :**the seller receives the order from the customer.
  + **Actors:** seller.
  + **Pre-Condition:** user selects and order the products .
  + **Post-condition:** The seller deliver approves the order and send the delivery.
* Use Case :**CUSTOMER CANCELS THE ORDER .**
  + **Description :**the order that was placed is been cancelled.
  + **Actors:** seller.
  + **Pre-Condition:** The product was ordered .
  + **Post-condition:** The delivery of the order should be stopped and if the customer has paid for the order earlier then the money should be given back to him.

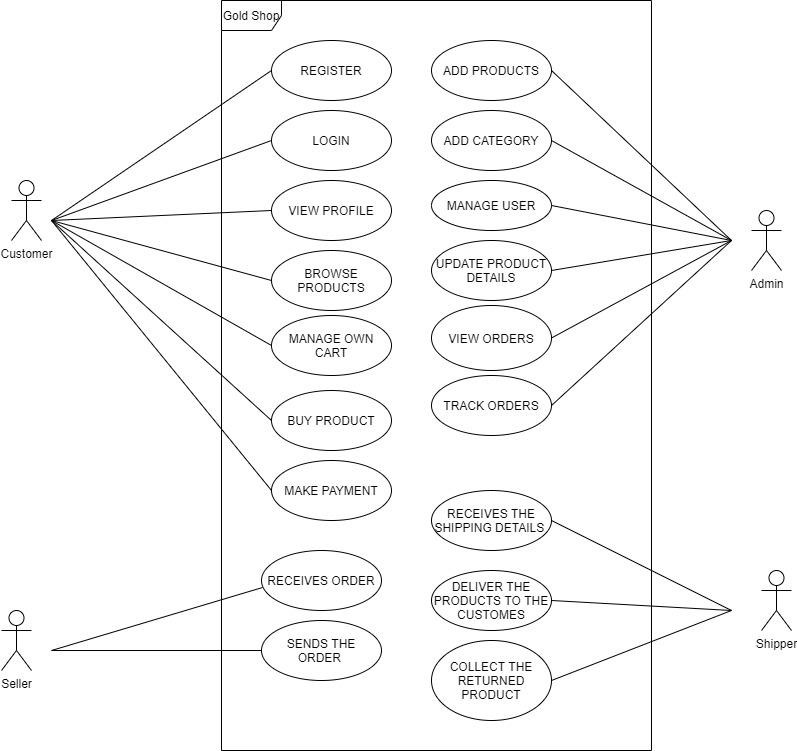


Fig 4.7 use case diagram

### Sequence Diagram :

A sequence diagram is a type of interaction diagram because it describes how—and in what order—a group of objects works together. These diagrams are used by software developers and business professionals to understand requirements for a new system or to document an existing process. Sequence diagrams are sometimes known as event diagrams or event scenarios.

### Symbols :

|  |  |  |
| --- | --- | --- |
| **Name** | **Symbol** | **Description** |
| Activation Box |  | The period when an object if performing an action |
| Object |  | An object that is created and performs action |
| Synchronous Message |  | Does the communication between different objects |

Table 4.6 for notation of sequence diagram Sequence diagram for user log-in :

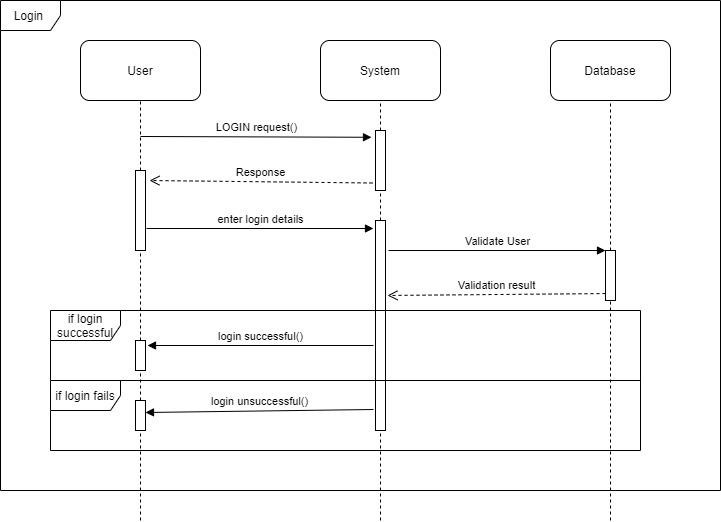


Fig 4.8.1 Sequence diagram for login

Sequence diagram for user Registration :

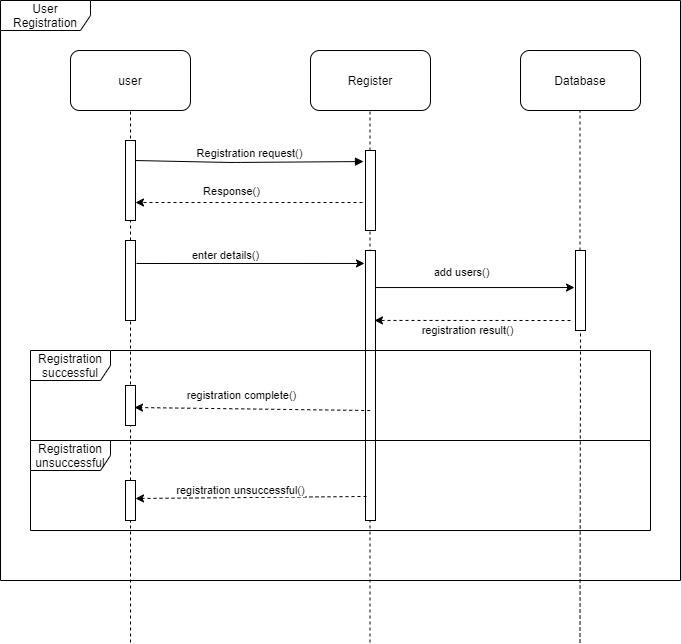


Fig 4.8.2 Sequence diagram for user Registration

Sequence Diagram for adding product to cart :

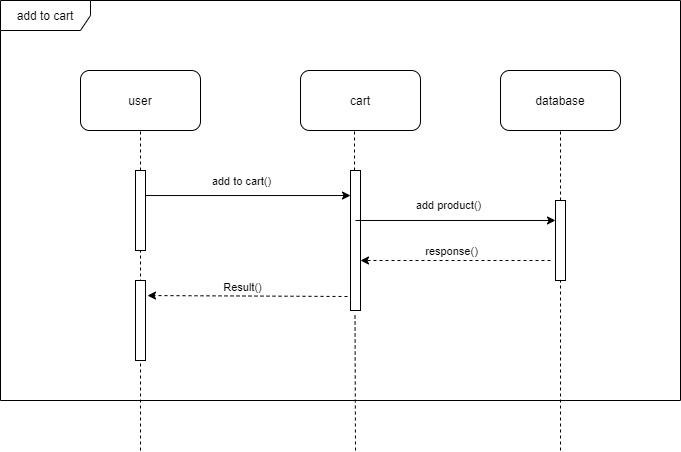


Fig 4.8.3 Sequence diagram for add to cart

Sequence Diagram for Viewing Products :

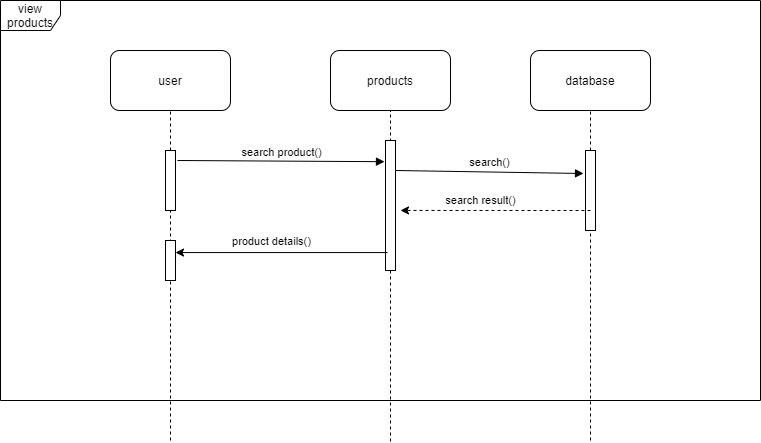


Fig 4.8.4 Sequence diagram for view product

Sequence diagram for Placing the order :

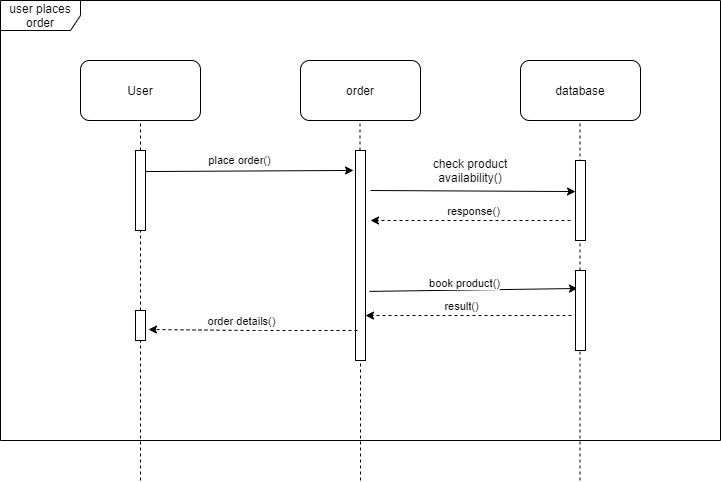


Fig 4.8.5 Sequence diagram for placing order

Sequence diagram for user feedback :

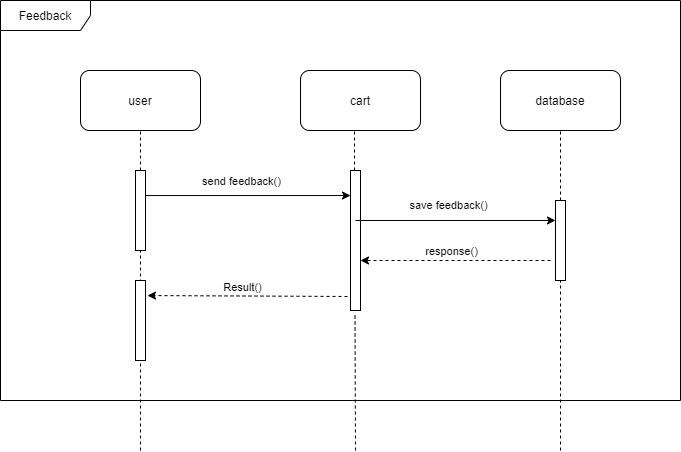


Fig 4.8.6 Sequence diagram for user feedback

Sequence diagram for viewing user account :

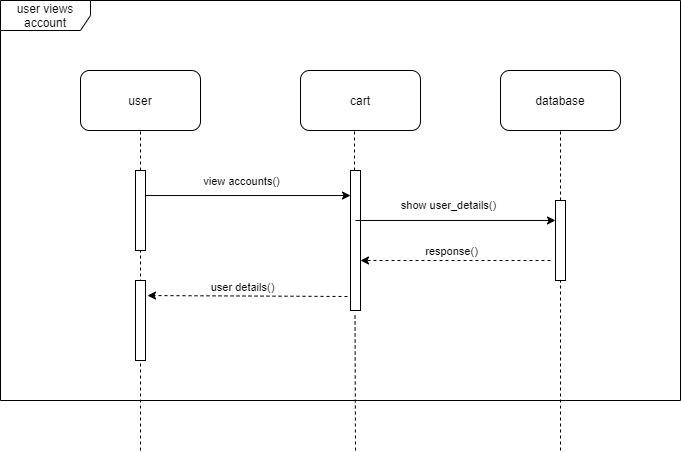


Fig 4.8.7 Sequence diagram for viewing user account

Sequence diagram for adding new products :

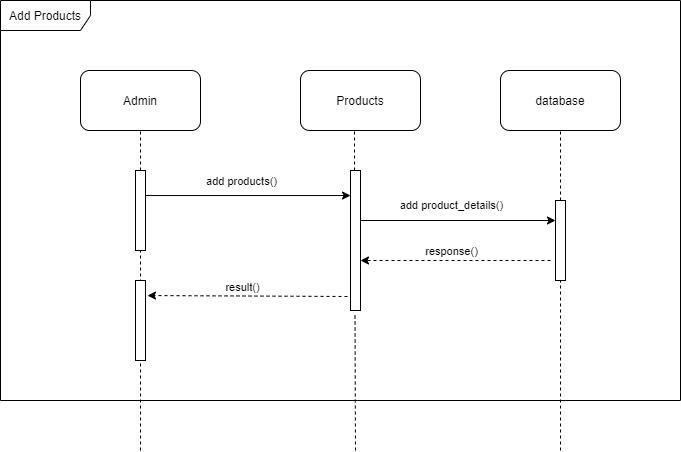


Fig 4.8.8 Sequence diagram for adding new product

Sequence diagram for Cancelling the order :

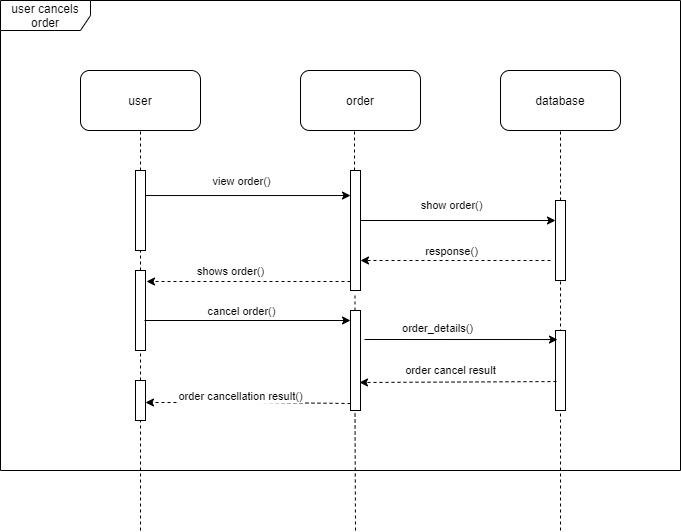


Fig 4.8.9 Sequence diagram for cancelling the order

### Activity Diagram :

An activity diagram is a behavioral diagram i.e. it depicts the behavior of a system. An activity diagram portrays the control flow from a start point to a finish point showing the various decision paths that exist while the activity is being executed. We can depict both sequential processing and concurrent processing of activities using an activity diagram. They are used in business and process modelling where their primary use is to depict the dynamic aspects of a system.An activity diagram is very similar to a flowchart

### Symbols :

|  |  |  |
| --- | --- | --- |
| **Name** | **Symbol** | **Description** |
| Initial State |  | It is the Starting state of the  system design in the activity diagram |
| Final State |  | It is the end or the final state of the diagram |
| Action State |  | Represents the action to be  taken |
| Decision |  | Its like the If else loop the so we  can choose what decision is made |
| Transition |  | Show the control flow of the  process |

Table 4.7 Notation of Activity Diagram

#### activity diagram.jpgFor User :

Fig 4.8.1 Activity diagram for user

#### For Admin :

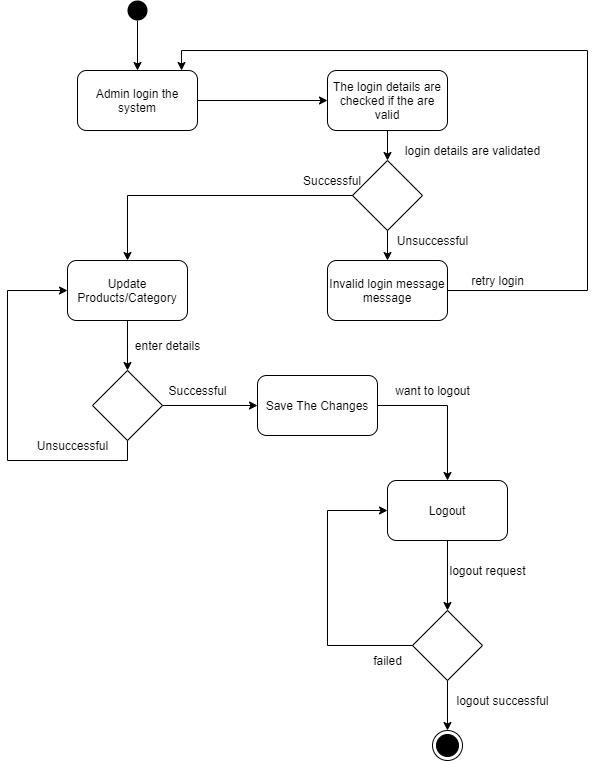


Fig 4.8.2 Activity diagram for Admin

### State Chart Diagram :

A state diagram is a type of diagram used in computer science and related fields to describe the behavior of systems. State diagrams require that the system described is composed of a finite number of states; sometimes, this is indeed the case, while at other times this is a reasonable abstraction.

#### Symbol :

|  |  |  |
| --- | --- | --- |
| **Name** | **Symbol** | **Description** |
| Initial State |  | It is the starting state |
| Transition |  | It shows the flow and what action is been performed |
| State |  | We use a rounded rectangle to represent a state. A state represents the conditions or circumstances of an object of a class at an instant of time. |

Table 4.8 Notation of state chart State chart diagram for user registration :

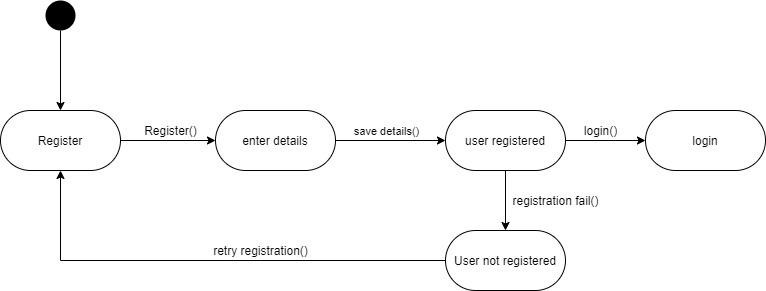


Fig 4.10.1 State chart diagram for user registration

State chart diagram for user login :

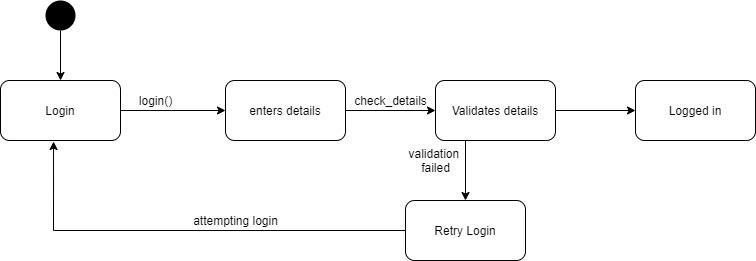


Fig 4.10.2 State chart diagram for user login State chart diagram for adding products to cart :

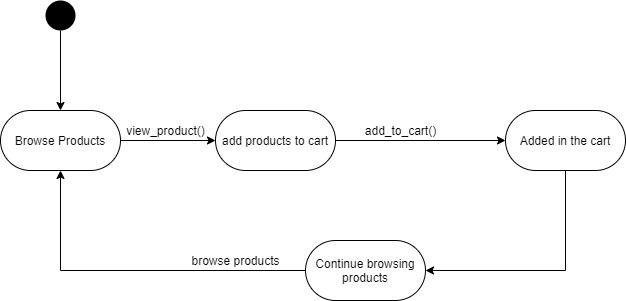


Fig 4.10.3 State chart diagram for adding products to cart State chart diagram for ordering :

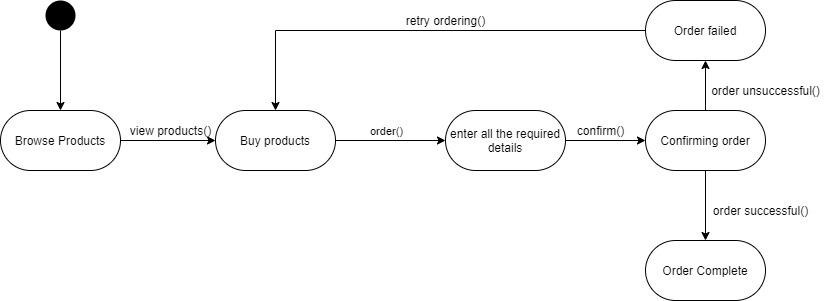


Fig 4.10.4 State chart diagram for ordering

State chart diagram for when adding new products :

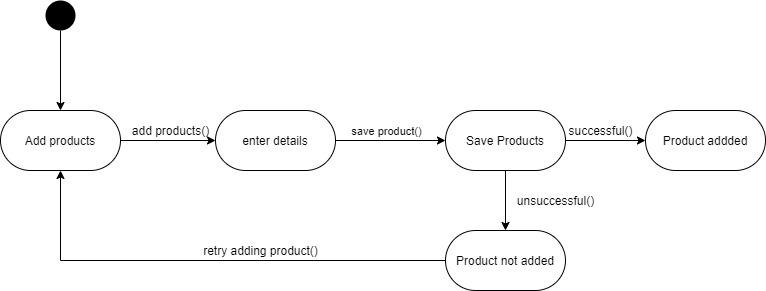


Fig 4.10.5 State chart diagram for when adding new products State chart diagram for viewing user account :

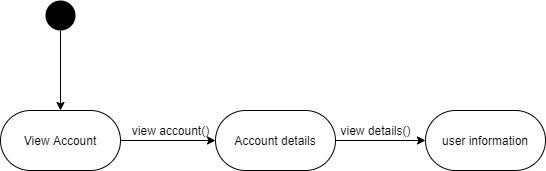


Fig.4.10.6 State chart diagram for viewing user account

State chart diagram for user feedback :

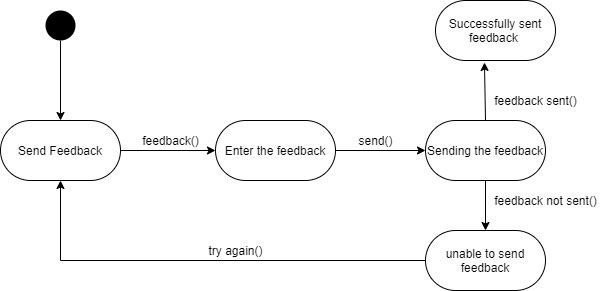
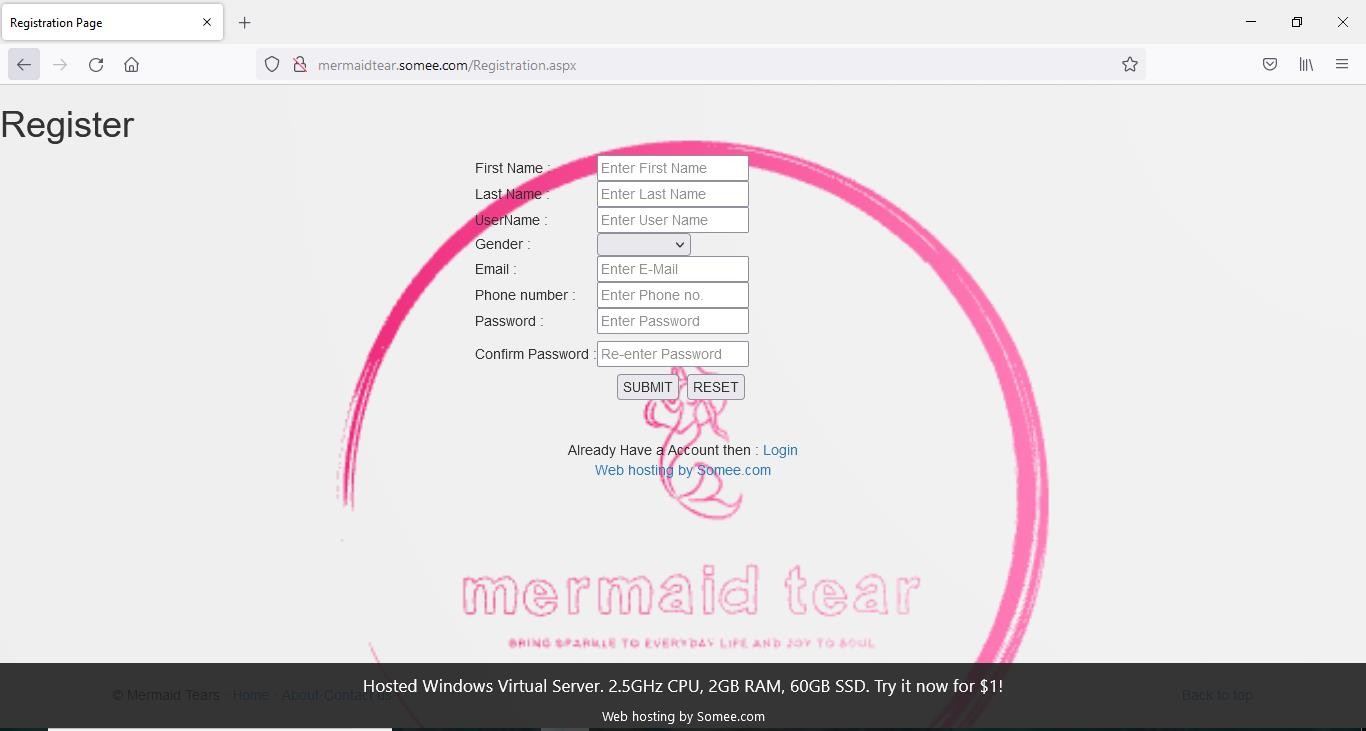


Fig 4.10.7 State chart diagram for user feedback

* 1. **User Interface Design :**



## Fig 4.11.1 registration

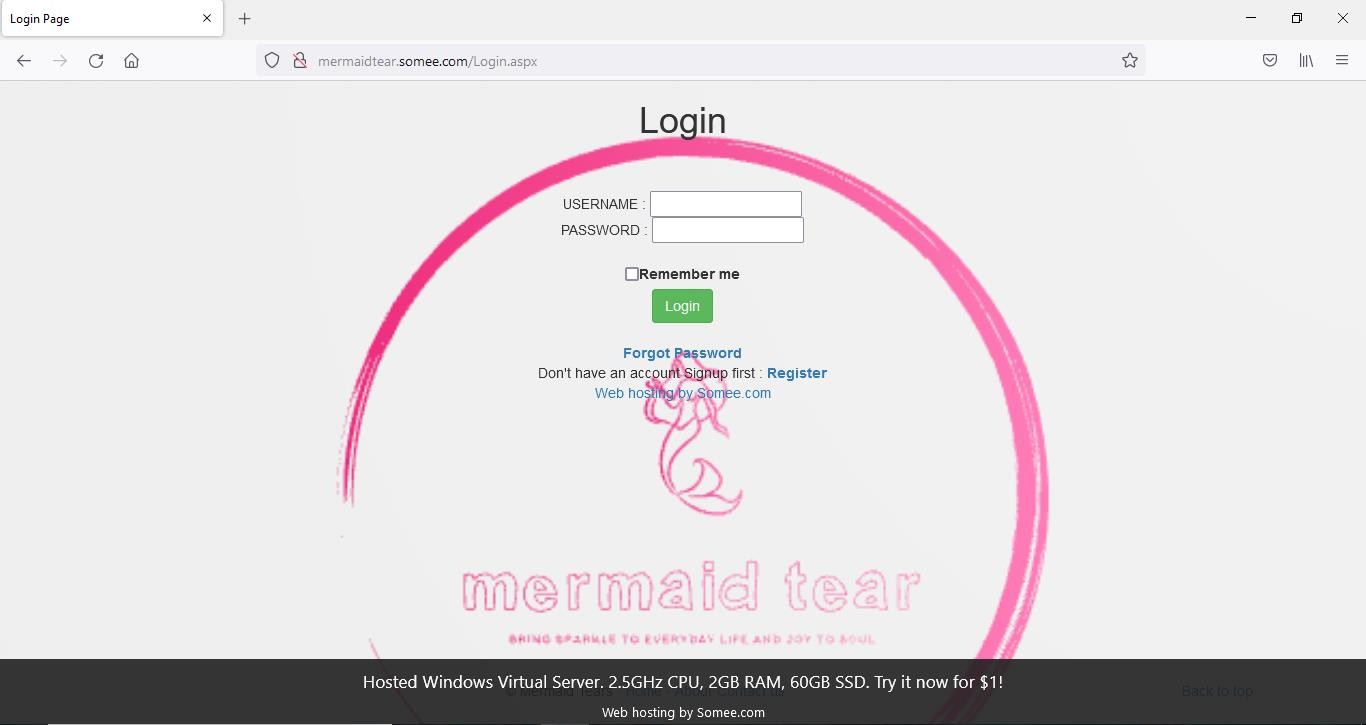


Fig 4.11.2 Login Page

#### UserHomePage.PNGAfter login or as a guest user the following interface will appear :

Fig 4.11.3 User Home page

**On clicking the cart the following interface will appear :**

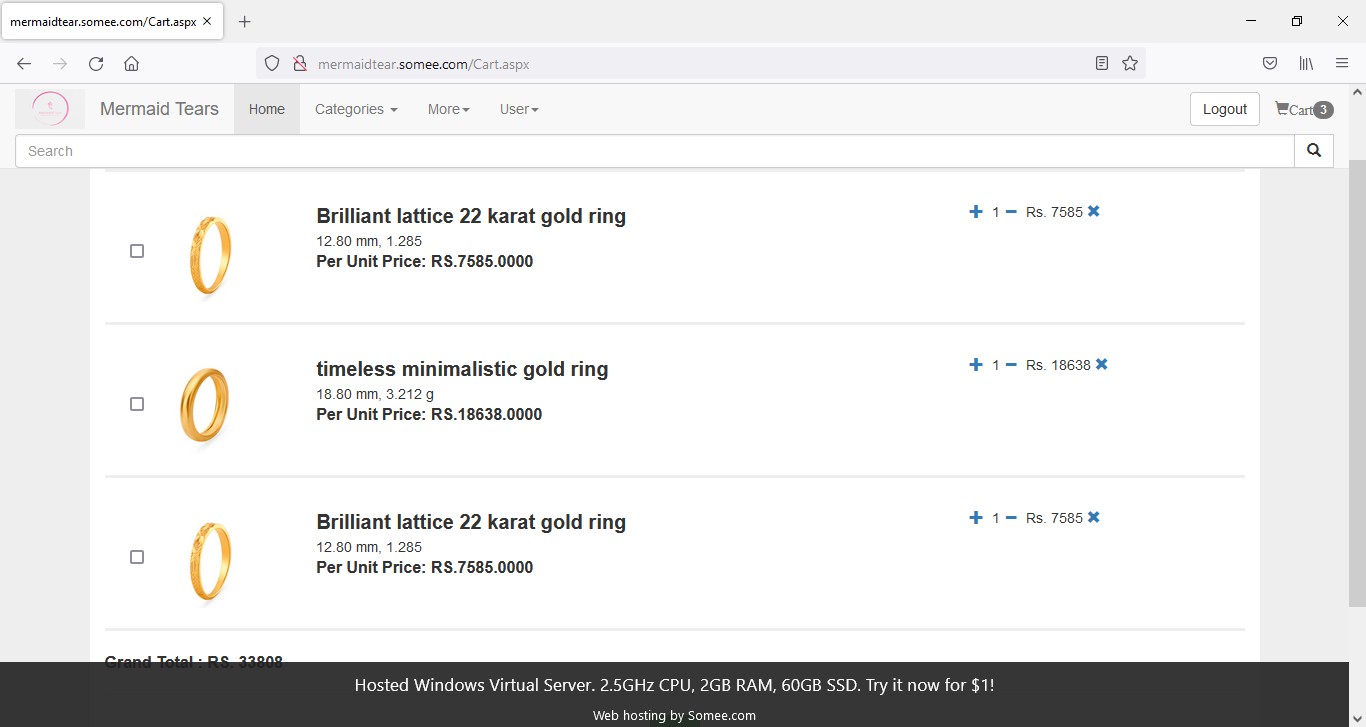


Fig 4.11.4 User Cart

### On clicking orders :

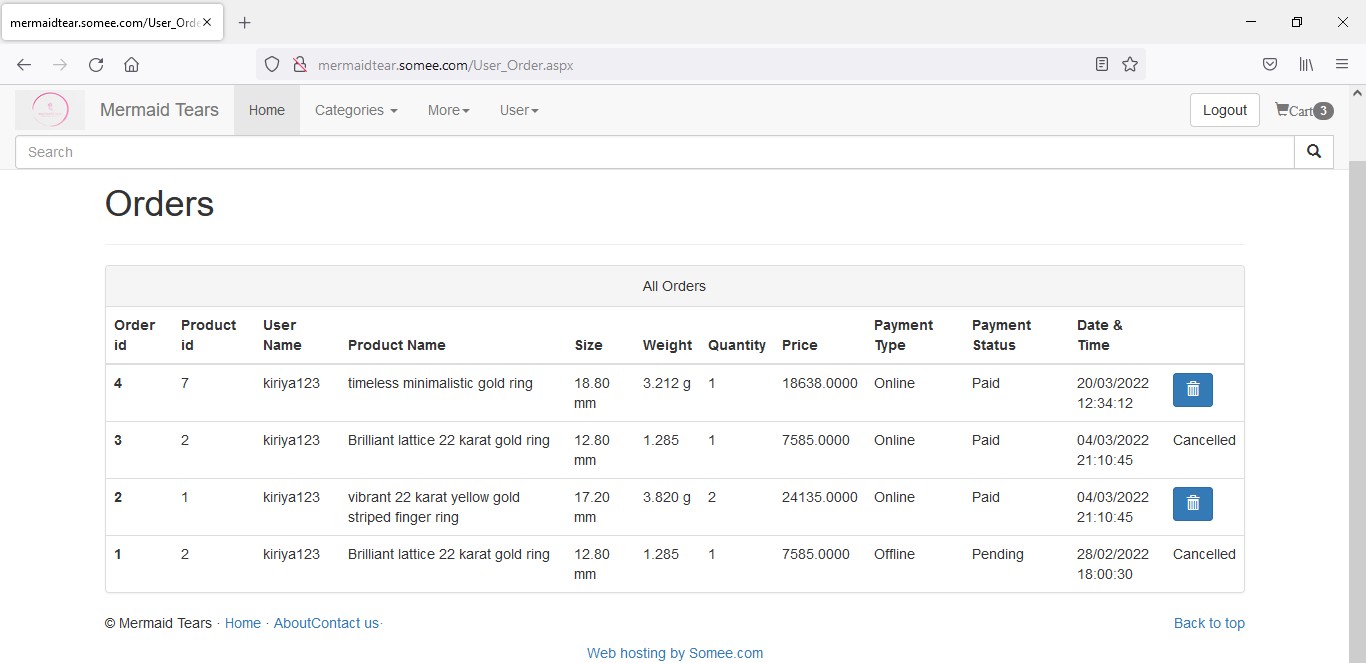
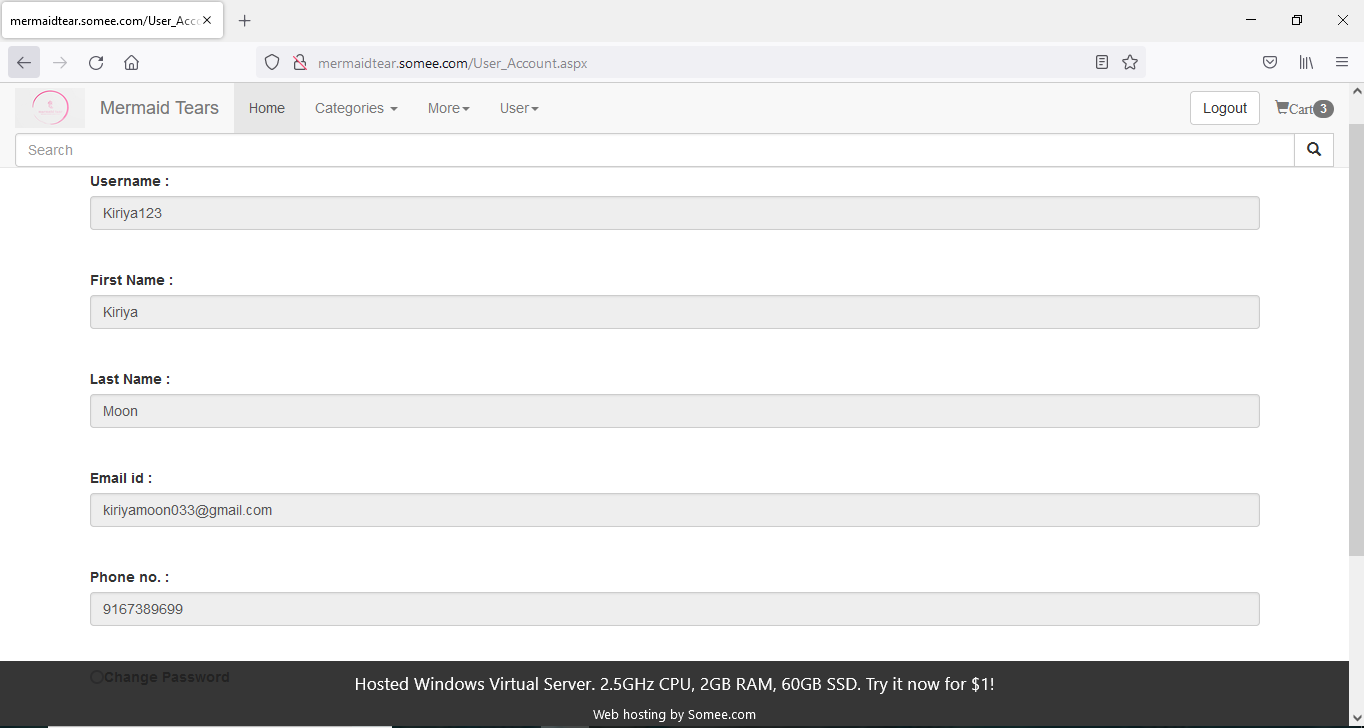


Fig 4.11.5 view orders

### On clicking the user account :



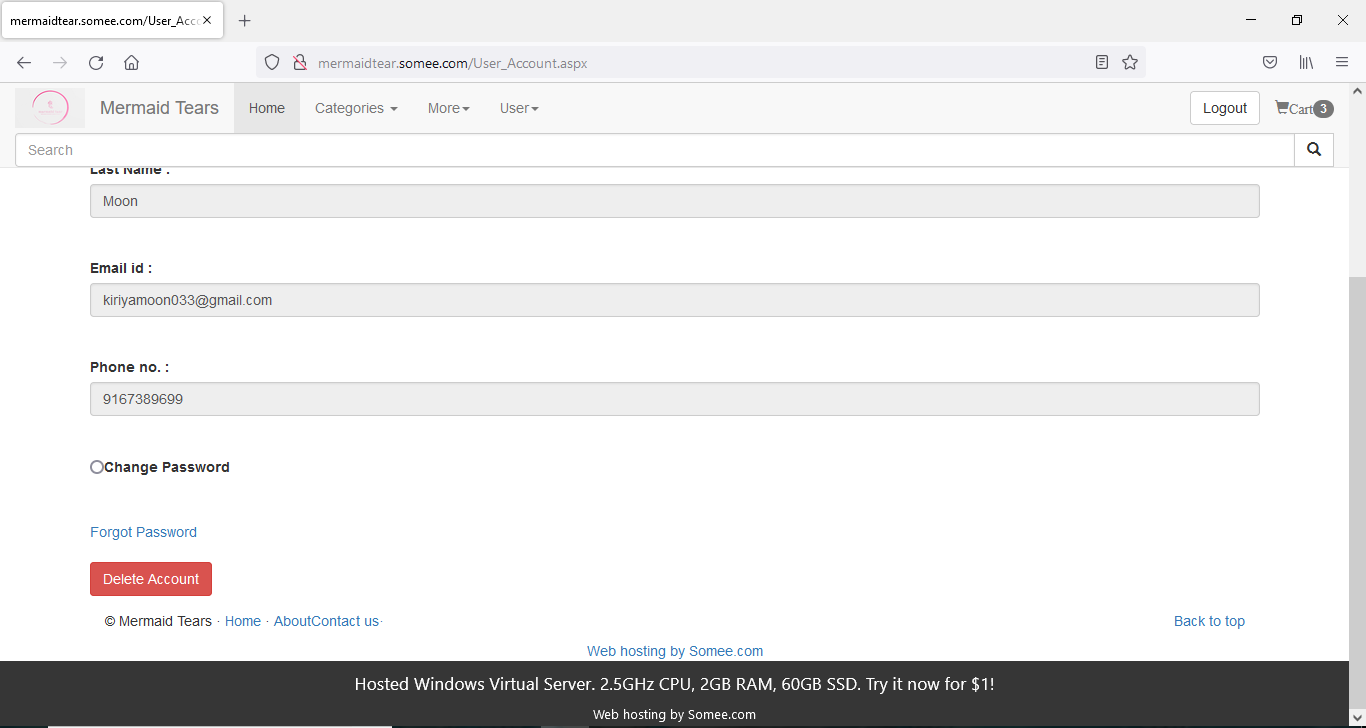


Fig 4.11.6 user account

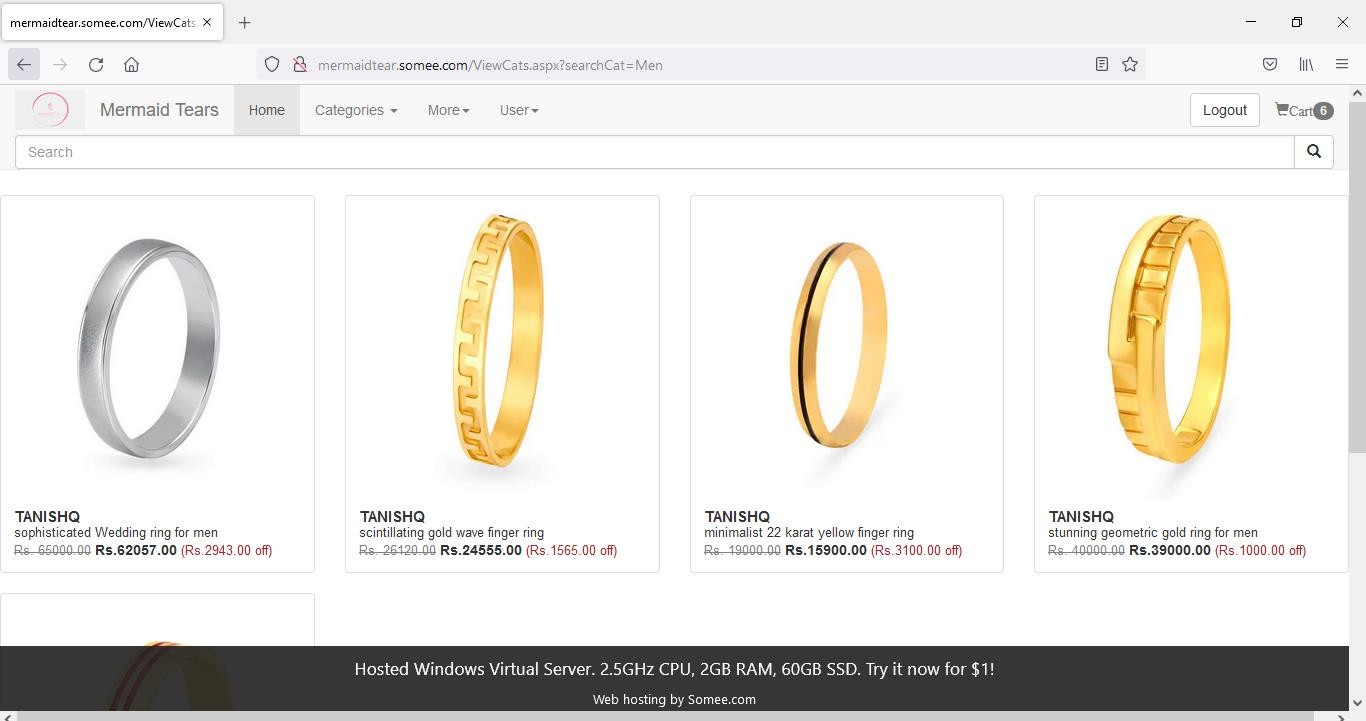


Fig 4.11.7 Category Wise/Seach View products

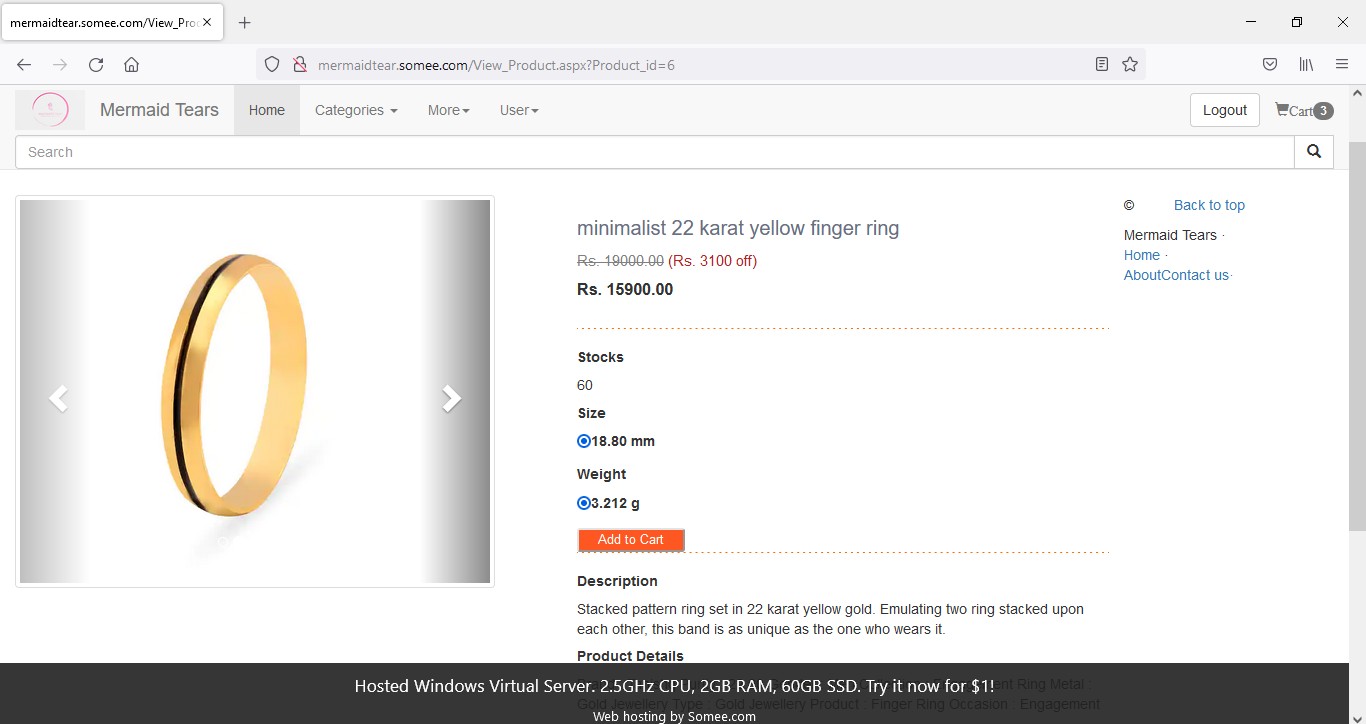


Fig 4.11.8 Products View

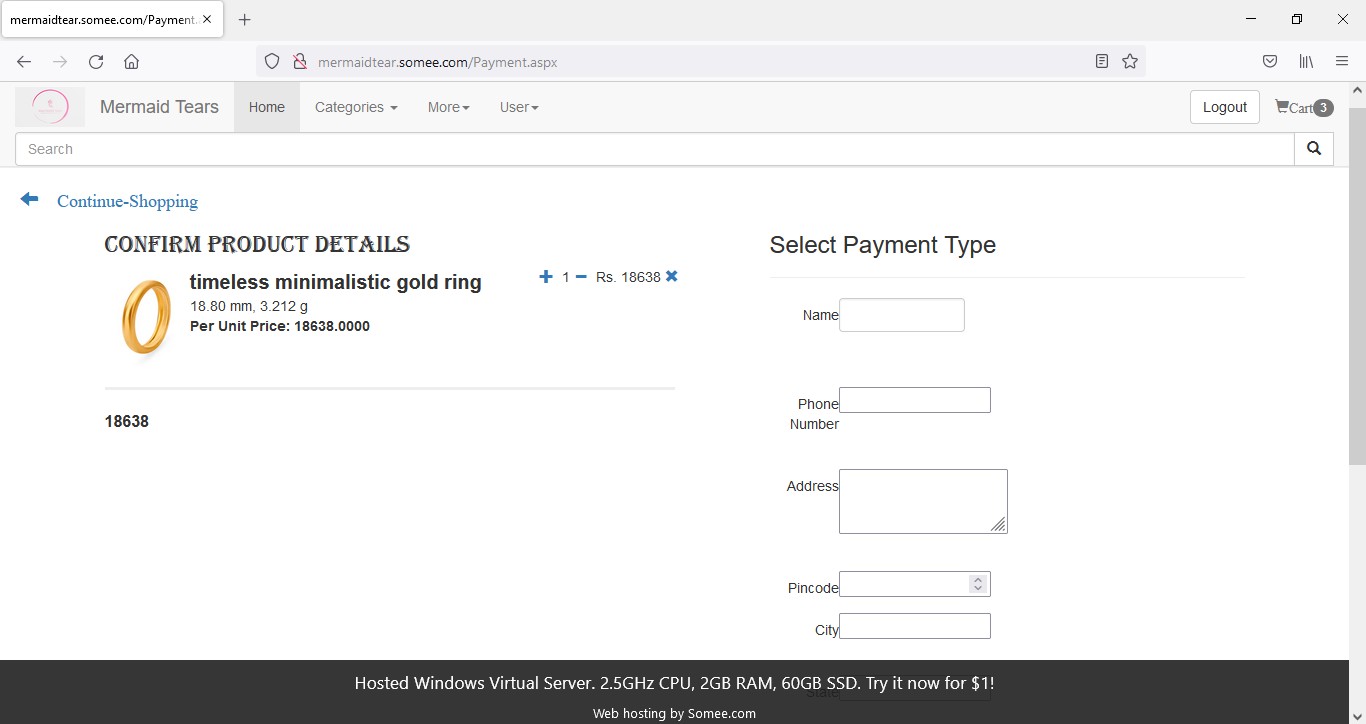


Fig 4.11.9 Placing Order

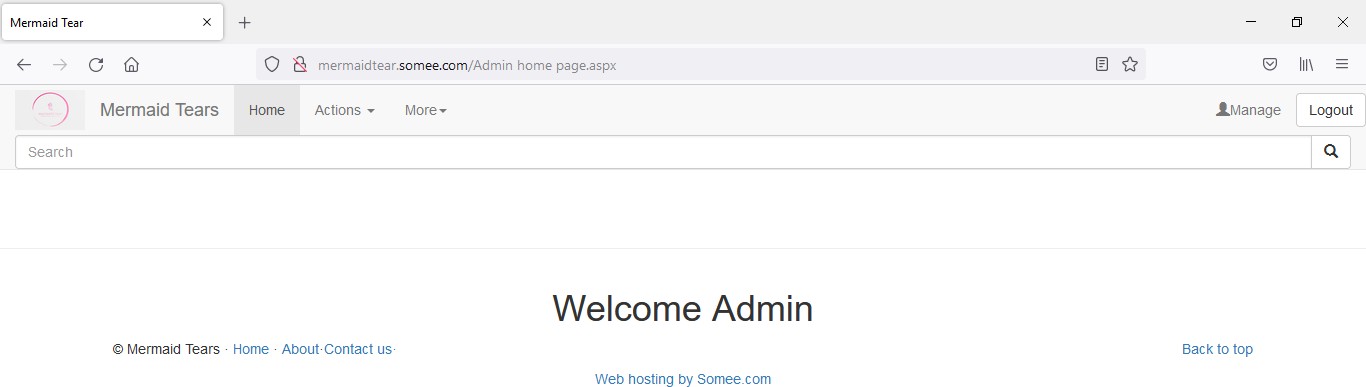


Fig 4.11.10 Admin Home Page

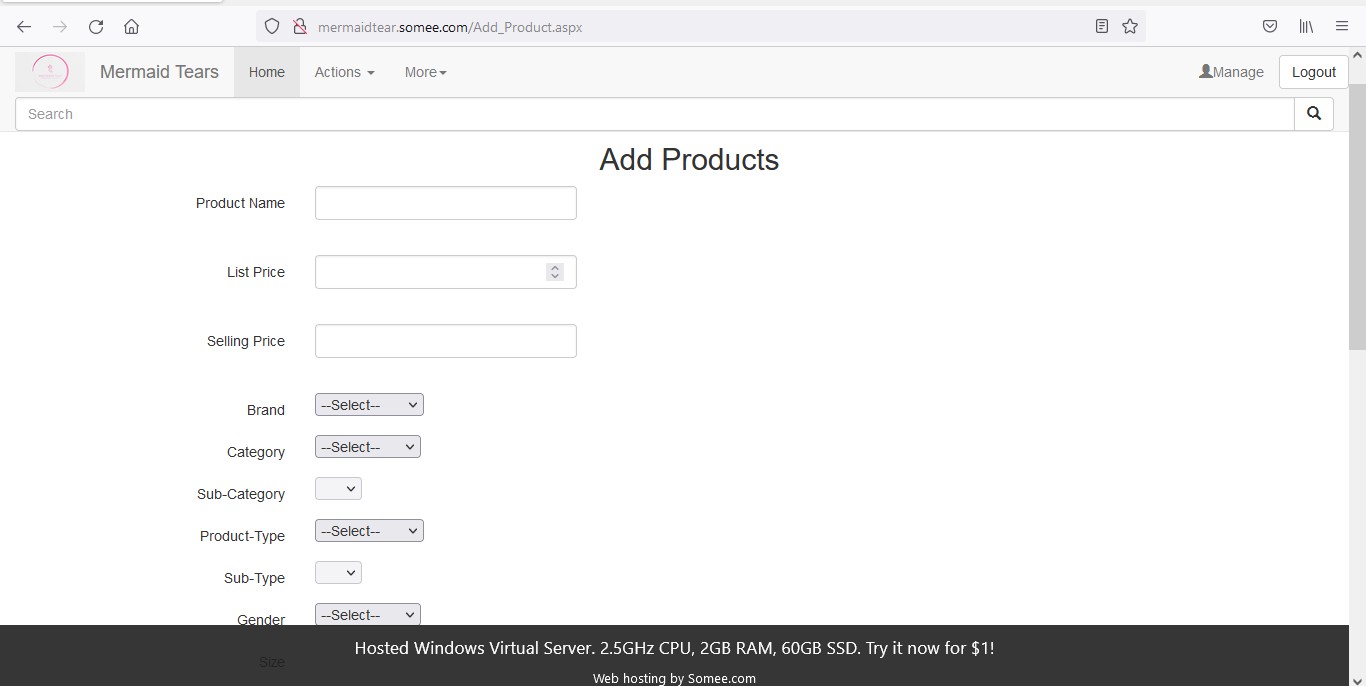


Fig 4.11.11 Add products

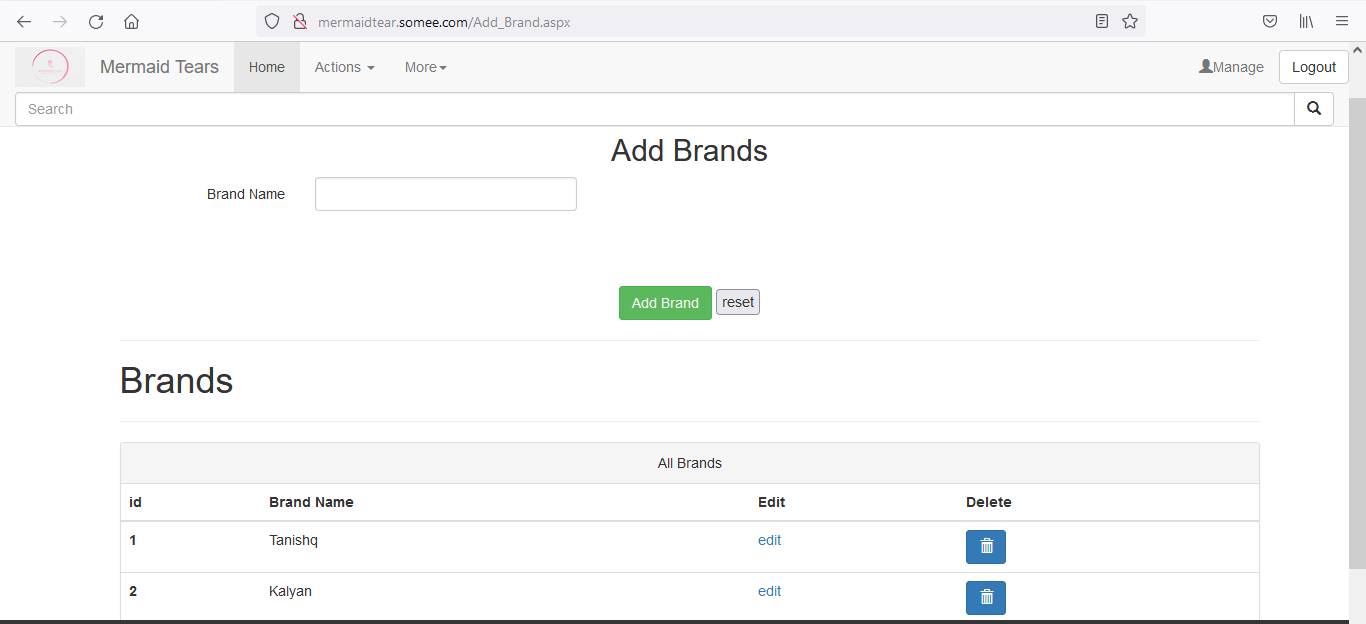


Fig 4.11.12 Add Brands

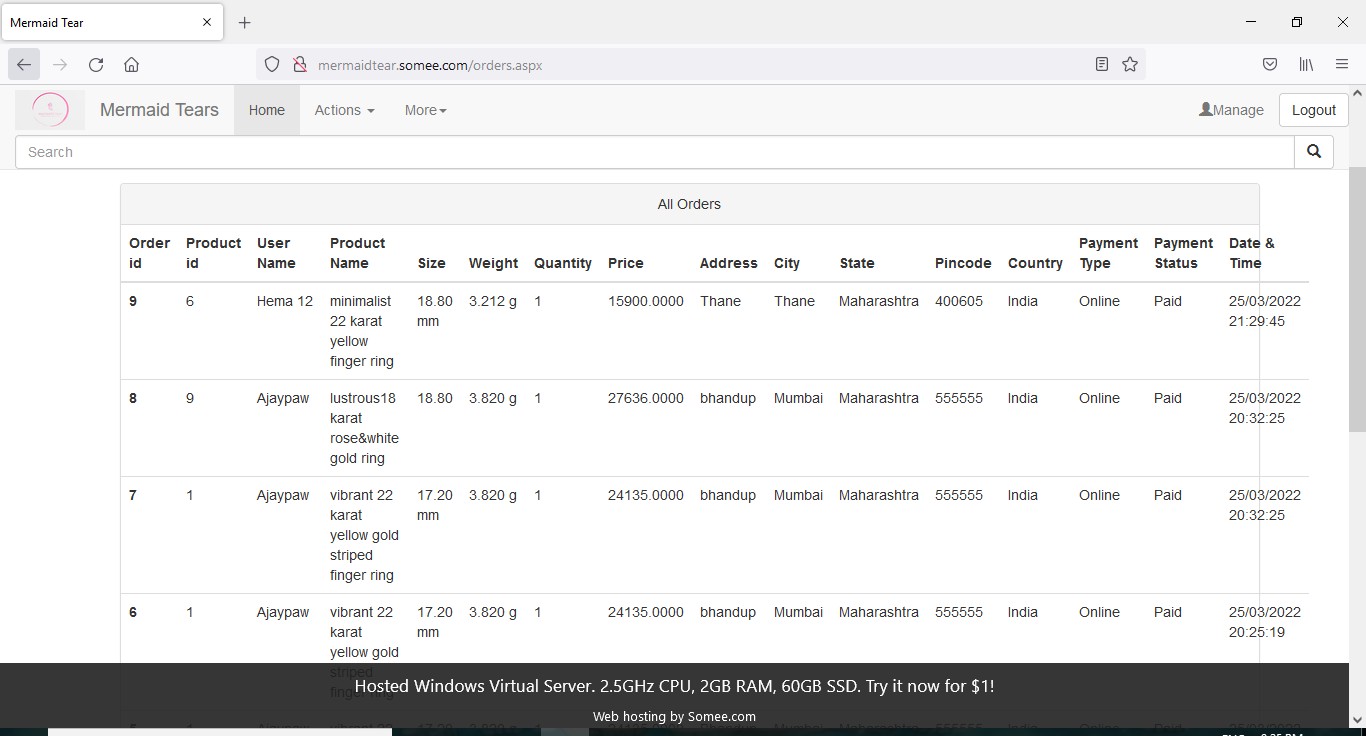


Fig 4.11.13 Admin View Orders

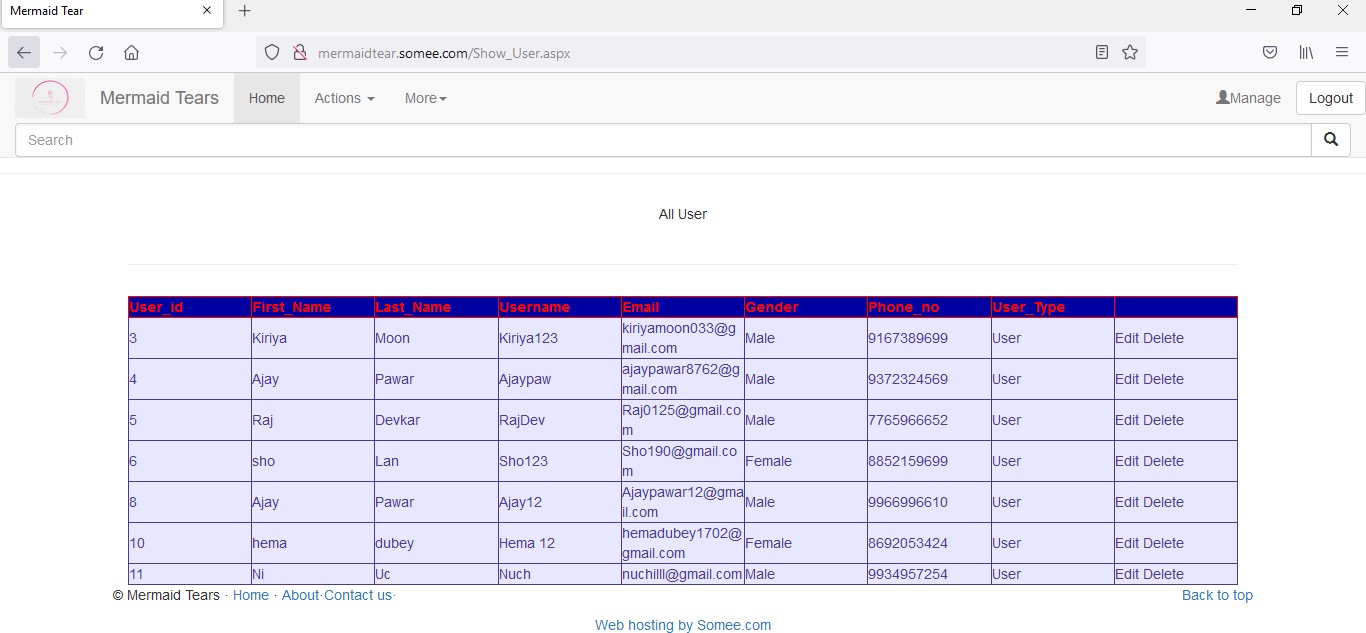


Fig 4.11.14 All Users

# 4.12. Test Cases :

#### Registration :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | First Name : Kiriya Last Name : Moon Username : Kiriya123 Password : Kiriya@123 confirm Password : Kiriya@123  Gender : Male email :  [Kiriya033@gmail.com](mailto:Kiriya033@gmail.com)  phone no. 9167389699 | Registered Successful |  |  |
| 2 | email : Ajay12 | invalid email |  |  |
| 3 | Password : RajDevkar | password must have 8-10 character and should contain  uppercase letter, |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | lowercase letter, and a special character |  |  |
| 4 | Password : Ajay@1234  Confirm Password : Ajay@2432 | Password doesn’t match |  |  |
| 5 | username : Kunal123 | User Already exists |  |  |
| 6 | All Null values | Please enter detail |  |  |

Table 4.9 Registration Test Cases

#### Login :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | username : kiriya123 password : Kiriya@123 | login Successful |  |  |
| 2 | username : Ajay123  passwrd : ajay$12 | invalid details |  |  |
| 3 | username : ABC@12 | invalid details |  |  |
| 4 | null | please enter the  data |  |  |

Table 4.10 Login Test Cases

#### Add Brand :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected output | Actual Output | Remark |
| 1 | Brand name : Tanishq | Brand Added Successfully |  |  |
| 2 | null | brand Name Required |  |  |
| 3 | null | brand Name Required |  |  |

Table 4.11 Add Brand Test Cases

#### Add Category :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | Category Name : Gold | Category Added Successfully |  |  |
| 2 | null | enter details |  |  |
| 3 | null | enter details |  |  |

Table 4.12 Add Categories Test Cases

#### Add sub category:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | Category Type : gold Subcategory  Name : Rings | Subcategory Added Successfully |  |  |
| 2 | Category Type : Null Subcategory  Name : Coins | Category Type Required |  |  |
| 3 | Subcategory  Name : null | enter the name |  |  |
| 4 | Subcategory  Name : null | enter the name |  |  |

Table 4.13 Add Sub-Categories Test Cases

#### Add Gender :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no | Name | Expected Output | Actual Output | Remark |
| 1 | Gender | Added |  |  |
| 2 | null | enter the gender name |  |  |
| 3 | null | enter the gender name |  |  |

Table 4.14 Add Gender Test Cases

#### Add Product Type :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no | Name | Expected Output | Actual Output | Remark |
| 1 | Product Type  Name : Gold | Product Type Added  Successfully |  |  |
| 2 | null | enter details |  |  |
| 3 | null | enter details |  |  |

Table 4.15 Add Product Type Cases

#### Add Product Sub Type :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no | Name | Expected Output | Actual Output | Remark |
| 1 | product Type : Ring  Subtype Name :  gold Rings | subtype Added Successfully |  |  |
| 2 | product Type : Null  Subtype Name :  Coins | sub Type name Required |  |  |
| 3 | Subtype Name :  null | enter the name |  |  |
| 4 | Subtype Name :  null | enter the name |  |  |

Table 4.16 Add Product SubType

#### Add Product Size :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | size name : 79.20mm  Brand : Tanishq Category : Gold Sub-category :  Rings product type : Rings  Product subtype  : gold ring Gender : Male | Size Added Successfully |  |  |
| 2 | Brand not  selected | Please select Brand |  |  |
| 3 | Size name : | Please enter Size name |  |  |
| 4 | Category and Product Type  not selected | Sub Category and sub type not visible |  |  |

Table 4.17 Add Size

#### Add Product :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | Product Name : Vikrant Gold Name Selling Price : 15000 List Price : 17000 Brand : Tanishq Category : Gold  Sub Category : Rings Product Type : Rings Sub Type : Engagement Rings Size : 17.72mm Weight : 20gm Gender : Male Quantity : 20 Description : Rings for Engagement Details : All the  details of the ring | Product added successfully |  |  |
| 2 | Select Product Type,SubType,Catego ry,Sub  category,Gender | Product weight and size visible |  |  |
| 3 | category not selected | select category |  |  |
| 4 | Product type not  selected | select Product type |  |  |
| 5 | gender not selected | select gender |  |  |
| 6 | product name : NULL | Enter The Product Name |  |  |
| 7 | Product Price : NULL | Enter the Product Price |  |  |

Table 4.18 Add Products

#### Search :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | Vk | Search results shown |  |  |
| 2 | Rings | All Rings are shown |  |  |
| 3 | Null | please enter a name |  |  |
| 4 | Tanish  q | Tanishq products are shown |  |  |
| 5 | Male | Male Products are shown |  |  |

Table 4.19 Search

#### Review :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | Liked the  Product | Review Sent Successfully |  |  |
| 2 | Null | Please enter the review |  |  |
| 3 | Nice  Product s | Review Sent Successfully |  |  |

Table 4.20 Review

#### Order Placed :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | name : kunal | Order Placed |  |  |
|  | address :Kalwa | Successfully |
|  | pincode : 400605 |  |
|  | city : thane |  |
|  | state : Maharashtra |  |
|  | country : India |  |
|  | email : |  |
|  | kkewat912gmail.co |  |
|  | m |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | phone no. : 9167389699  mode of payment : offline |  |  |  |
| 2 | email : kkewat | incorrect email |  |  |
| 3 | mode of payment :  online | Rediirect to payment  gateway |  |  |
| 4 | mode of payment :  online | Redirect to payment  gateway |  |  |
| 5 | on cancelling online  payment | Redirect to cart |  |  |

Table 4.21 Placing Order

#### Forgot Password :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | email :  [kkewat91@gmail.com](mailto:kkewat91@gmail.com) | email sent to email  address |  |  |
| 2 | email : [kunal@gmail.com](mailto:kunal@gmail.com) | no account registered with  the following email |  |  |
| 3 | email : Null | please enter the email |  |  |
|  |  |  |  |  |

Table 4.22 Forgot Password

#### User Account:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | New Password :  Kunal@123 | Password Changed  Successfully |  |  |
| 2 | New Password :  Null | enter password |  |  |
| 3 | New Password : Sun | password should contain a uppercase later,  a lowercaseletter, a special character,  minumum 8 letters and  maximum10 letter |  |  |
| 4 | Delete Account | Account deleted |  |  |

Table 4.23 User Account

# Chapter 5 : Implementation and Testing

### Coding Details and Efficiency :

#### Login Page.aspx(frontend page):

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Login.aspx.cs" Inherits="Login" %>

<!DOCTYPE html>

<html xmlns="[http://www.w3.org/1999/xhtml"](http://www.w3.org/1999/xhtml)>

<head runat="server">

<title>Login Page</title>

<meta charset="utf-8"/>

<meta http-equiv="X-UA-Compatible" content="IE-edge" />

<meta name="viewport" content="width=device-width, initial-scale=1" />

<link href="css/StyleSheet.css" rel="stylesheet" />

<link rel="stylesheet"

href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css" />

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

<body style="text-align:center;background-image:url('Images/logo/logo2.png');background- repeat:no-repeat;background-attachment:fixed;background-size:cover;">

<form id="form1" runat="server">

<div>

<h1>Login</h1>

<br/><br />

USERNAME : <asp:TextBox ID="username" runat="server" ></asp:TextBox><br /> PASSWORD : <asp:TextBox ID="password" TextMode="Password" runat="server"

MaxLength="12" ></asp:TextBox><br /><br />

<asp:CheckBox ID="Remember\_me" runat="server" Text="Remember me" /><br />

<asp:Button ID="login" CssClass="btn btn-success" runat="server" Text="Login" OnClick="login\_Click" /><br/><br />

<asp:HyperLink ID="frgtpassword" runat="server" NavigateUrl="~/Forgot\_Password.aspx"><b>Forgot Password</b></asp:HyperLink><br />

<span> Don't have an account Signup first : <asp:HyperLink ID="HyperLink2" NavigateUrl="~/Registration.aspx" runat="server"><b>Register</b></asp:HyperLink></span><br />

<b><asp:Label ID="Label1" runat="server" Text=""></asp:Label></b>

</div>

<%-- Page bottom Conents Starts --%>

<footer class="footer\_position">

<div class="container">

<p class="pull-right"><a href="">Back to top</a></p>

<p>&copy; Mermaid Tears &middot; <a href="Default.aspx">Home </a>&middot; <a href="#">About</a>&middot;<a href="#">Contact us&middot;</a></p>

</div>

</footer>

<%-- Page bottom Contents Ends --%>

</form>

</body></html>

#### Login.cs (backend code of login page):

using System; using System.Data;

using System.Data.SqlClient; using System.Configuration; using System.Collections.Generic; using System.Linq;

using System.Web; using System.Web.UI;

using System.Web.UI.WebControls;

public partial class Login : System.Web.UI.Page

{

public static String Connection = ConfigurationManager.ConnectionStrings["Dbconnection"].ConnectionString;

protected void Page\_Load(object sender, EventArgs e)

{

if(!IsPostBack)

{

if(Request.Cookies["UName"] != null && Request.Cookies["UPassword"] != null)

{

username.Text = HttpContext.Current.Request.Cookies["UName"].Value.ToString(); password.Text =

HttpContext.Current.Request.Cookies["UPassword"].Value.ToString(); Remember\_me.Checked = true;

}

}

}

protected void login\_Click(object sender, EventArgs e)

{

try

{

string Username, Password, trimmed; Username = username.Text; Password = password.Text;

trimmed = String.Concat(Password.Where(c => !Char.IsWhiteSpace(c))); byte[] encData\_byte = new byte[trimmed.Length];

encData\_byte = System.Text.Encoding.UTF8.GetBytes(trimmed); string ePassword = Convert.ToBase64String(encData\_byte); SqlConnection con = new SqlConnection(Connection); SqlCommand cmd = new SqlCommand(@"SELECT [Username]

,[Password]

,[User\_Type]

FROM User\_detail WHERE Username='" + Username + "' AND Password='" + ePassword + "'", con);

SqlDataAdapter sda = new SqlDataAdapter(cmd); DataTable dt = new DataTable();

sda.Fill(dt);

con.Open();

int i = cmd.ExecuteNonQuery(); con.Close();

if (dt.Rows.Count > 0)

{

if (Remember\_me.Checked)

{

Response.Cookies["UName"].Value = Username; Response.Cookies["UPassword"].Value = Password;

Response.Cookies["UName"].Expires = DateTime.Now.AddDays(120); Response.Cookies["UPassword"].Expires = DateTime.Now.AddDays(120);

}

else

{

Response.Cookies["UName"].Value = Username; Response.Cookies["UPassword"].Value = Password;

Response.Cookies["UName"].Expires = DateTime.Now.AddDays(-1); Response.Cookies["UPassword"].Expires = DateTime.Now.AddDays(-1);

}

string Usertype;

Usertype = dt.Rows[0][2].ToString().Trim();

if (Usertype == "User")

{

Session["Username"] = Username; Response.Redirect("UserHomePage.aspx");

}

else

if (Usertype == "Admin")

{

Session["Username"] = Username; Response.Redirect("Admin home page.aspx");

}

//Session["Username"] = Username;

//Response.Redirect("UserHomePage.aspx");

}

else

{

Label1.Text = "Invalid Login Details"; Label1.ForeColor = System.Drawing.Color.Red;

}

}

catch (Exception)

{

Response.Redirect("error.aspx");

}

}

}

The Login Page checks whether the details provider are correct and then if it is correct then depending on whether login details of customer or admin it Redirects the user to the user home page and admin to the admin home page.

#### User Home Page :

<%@ Page Language="C#" AutoEventWireup="true" CodeFile="UserHomePage.aspx.cs" Inherits="UserHomePage" EnableEventValidation="false" %>

<!DOCTYPE html>

<html xmlns="[http://www.w3.org/1999/xhtml"](http://www.w3.org/1999/xhtml)>

<head runat="server">

<title>Home Page</title>

<meta charset="utf-8" />

<meta http-equiv="X-UA-Compatible" content="IE-edge" />

<meta name="viewport" content="width=device-width, initial-scale=1" />

<link href="css/StyleSheet.css" rel="stylesheet" />

<link rel="stylesheet"

href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css" />

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<form id="form1" runat="server">

<div>

<nav class="navbar navbar-default navbar-fixed-top" role="navigation">

<div class="container-fluid">

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data- target="#myNavbar">

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

<a class="navbar-brand" href="UserHomePage.aspx">

<img src="Images/logo/logo2.png" width="70" height="40" style="position: relative; top: -10px" />

</a>

<a class="navbar-brand" href="UserHomePage.aspx">Mermaid Tears</a>

</div>

<div class="collapse navbar-collapse" id="myNavbar">

<ul class="nav navbar-nav">

<li class="active"><a href="UserHomePage.aspx">Home</a></li>

<li class="dropdown">

<a class="dropdown-toggle" data-toggle="dropdown" href="#">Categories

<span class="caret"></span></a>

<ul class="dropdown-menu">

<li class="dropdown-header">Gender</li>

<li role="separator" class="divider"></li>

<li><a href="ViewCats.aspx?searchCat=Men">Men</a></li>

<li><a href="ViewCats.aspx?searchCat=Women">Women</a></li>

<li><a href="ViewCats.aspx?searchCat=Children">Kids</a></li>

<li><a href="ViewCats.aspx?searchCat=Unisex">Unisex</a></li>

<li role="separator" class="divider"></li>

<li><a href="ViewCats.aspx?searchCat=Earrings">Earings</a></li>

<li><a href="ViewCats.aspx?searchCat=Pendants">Pendants</a></li>

<li><a href="ViewCats.aspx?searchCat=Finger Rings">Finger

Rings</a></li>

</ul>

</li>

<li class="dropdown">

<a class="dropdown-toggle" data-toggle="dropdown" href="#">More<span class="caret"></span></a>

<ul class="dropdown-menu">

<li><a href="AboutUs.aspx">About US</a></li>

<li><a href="ContactUs.aspx">Contact us</a></li>

<li><a href="Guide.aspx">Guide book</a></li>

</ul>

</li>

<li class="dropdown">

<a class="dropdown-toggle" data-toggle="dropdown" href="#">User<span class="caret"></span></a>

<ul class="dropdown-menu">

<li><a href="User\_Account.aspx">Account</a></li>

<li><a href="User\_Order.aspx">Orders</a></li>

</ul>

</li>

<li><a href="Products.aspx">All Products</a></li>

</ul>

<ul class="nav navbar-nav navbar-right">

<li>

<asp:Button ID="loginbtn" CssClass="btn btn-default navbar-btn glyphicon- log-in" runat="server" Text="Login" OnClick="loginbtn\_Click" />

<asp:Button ID="logoutbtn" CssClass="btn btn-default navbar-btn glyphicon-log-out" runat="server" Text="Logout" OnClick="logoutbtn\_Click" />

</li>

<li>

<asp:LinkButton runat="server" ID="Cart" type="button" OnClick="Cart\_Click1"><span aria-hidden="true" class="glyphicon glyphicon-shopping- cart">Cart</span><span id="num" class="badge" runat="server">6</span></asp:LinkButton>

</li>

</ul>

</div>

<form class="navbar-form navbar-left" action="/action\_page.php">

<div class="input-group">

<asp:TextBox ID="search" runat="server" class="form-control" placeholder="Search" ></asp:TextBox>

<div class="input-group-btn">

<asp:LinkButton ID="searchbtn" runat="server" class="btn btn-default" OnClick="searchbtn\_Click" ><i class="glyphicon glyphicon-search"></i></asp:LinkButton>

<i class="glyphicon glyphicon-search"></i>

</button>

</div>

</div>

</form>

</div>

</nav>

</div>

<br />

<br />

<br />

<br />

<hr />

<asp:Label ID="LblSuccess" runat="server" CssClass="text-success"></asp:Label>

<%-- Image Slider Start --%>

<br /> <br /><br /><br />

<hr />

<div class="container">

<div id="myCarousel" class="carousel slide" data-ride="carousel">

<!-- Indicators -->

<ol class="carousel-indicators">

<li data-target="#myCarousel" data-slide-to="0" class="active"></li>

<li data-target="#myCarousel" data-slide-to="1"></li>

<li data-target="#myCarousel" data-slide-to="2"></li>

</ol>

<!-- Wrapper for slides -->

<div class="carousel-inner">

<asp:Repeater ID="Imagerptr" runat="server">

<ItemTemplate>

<div class="item <%# GetActiveImage(Container.ItemIndex) %>">

<a href="ViewCats.aspx?searchCat=<%# Eval("Heading\_Name") %>">

<asp:Image ID="Image1" ImageUrl='<%# Eval("ImageUrl") %>' runat="server" style="height: 386px; width: 100%;" Title="image taken from Google.com" /></a>

<%--<img src="Images/Product\_Images/<%#Eval("Product\_id")

%>/<%#Eval("Name") %><%#Eval("Extension") %>" alt="<%#Eval("Name") %>" title="image taken from <%#Eval("Brand\_name") %>.com" onerror="this.src='Images/no\_img.png'" />--%>

<div class="carousel-caption">

</div>

</div>

</ItemTemplate>

</asp:Repeater>

</div>

<!-- Left and right controls -->

<a class="left carousel-control" href="#myCarousel" data-slide="prev">

<span class="glyphicon glyphicon-chevron-left"></span>

<span class="sr-only">Previous</span>

</a>

<a class="right carousel-control" href="#myCarousel" data-slide="next">

<span class="glyphicon glyphicon-chevron-right"></span>

<span class="sr-only">Next</span>

</a>

</div>

</div>

<%-- Image Slider End --%>

<hr />

<%-- Page Contents Starting --%>

<div class="container-fluid">

<%--<h1>Hello World!</h1>--%>

<div class="row">

<div class="col-xs-6 col-sm-3" style="background-color: lavender; text-align: center">

<a href="ViewCats.aspx?searchCat=Rings">

<img class="img-circle" src="Images/dod img/Rings\_dod.jpg" alt="Rings" height="150" width="150" />

<h2>Rings</h2>

</a>

</div>

<div class="col-xs-6 col-sm-3" style="background-color: lavenderblush; text-align:

center">

<a href="ViewCats.aspx?searchCat=Floral Necklaces">

<img class="img-circle" src="Images/dod img/Neckalce\_floral.JPG" alt="Floral

Design Necklaces" height="150" width="150" />

<h2>Floral Necklaces</h2>

</a>

</div>

<!-- Add clearfix for only the required viewport -->

<div class="clearfix visible-xs"></div>

<div class="col-xs-6 col-sm-3" style="background-color: lightcyan; text-align: center">

<a href="ViewCats.aspx?searchCat=Bangles">

<img class="img-circle" src="Images/dod img/Bangles.jpg" alt="Bangles" height="150" width="150" />

<h2>Bangles </h2>

</a>

</div>

<div class="col-xs-6 col-sm-3" style="background-color: lightgray; text-align: center">

<a href="ViewCats.aspx?searchCat=Coin">

<img class="img-circle" src="Images/dod img/Gold coin.jpg" alt="Gold Coins" height="150" width="150" />

<h2>Gold & Silver Coins</h2>

</a>

</div>

</div>

</div>

<hr />

<%--Middle Page Contents To show Products Starts Here--%>

<div class="panel panel-primary">

<div class="panel-heading"> Deals Of The Day

</div>

<div class="row" style="padding-top: 50px">

<asp:Repeater ID="rptrProducts" runat="server">

<ItemTemplate>

<div class="col-sm-3 col-md-3">

<a href="View\_Product.aspx?Product\_id=<%#Eval("Product\_id") %>" style="text-decoration: none;">

<div class="thumbnail">

<img src="Images/Product\_Images/<%#Eval("Product\_id")

%>/<%#Eval("ImageName") %><%#Eval("Extension") %>" alt="<%#Eval("ImageName") %>" title="image taken from <%#Eval("Brand\_Name") %>.com" style="height: 300px; width: 100%;"

/>

<div class="caption">

<div class="probrand"><%#Eval("Brand\_Name") %></div>

<div class="proName"><%#Eval("Product\_Name") %></div>

<div class="proPrice">

<span class="pro\_OriginalPrice">Rs.

<%#Eval("Product\_ListPrice","{0:0.00}") %></span> Rs.<%#Eval("Product\_SellingPrice","{0:0.00}") %>

<span class="proPriceDiscount">(Rs.<%#Eval("DiscountAmount","{0:0.00}") %> off)</span>

</div>

</div>

</div>

</div>

</ItemTemplate>

</asp:Repeater>

</div>

</div>

<%--Middle Page Contents To show Products Starts Here--%>

</form>

<%-- Page bottom Contents Starts --%>

<footer>

<div class="container">

<p class="pull-right"><a href="#">Back to top</a></p>

<p>&copy; Mermaid Tears &middot; <a href="Default.aspx">Home </a>&middot; <a href="AboutUs.aspx">About</a><a href="ContactUs.aspx">Contact us&middot;</a></p>

</div>

</footer>

<%-- Page bottom Contents Ends --%>

</body>

</html>

### Testing Approach :

Software testing is a approach of testing the functionality of our software application to find out the software bugs and errors if any. It is to done to check whether our software meets the our required criteria and is there any defect presents in it so that we can work on it.

There are three types of software testing approaches :

* + 1. WhiteBox Testing:

It is also called as glass box testing, clear box, structural testing, It is based on applications internal code structure. In this the internal perspective of the system as well as the programming skills is used to design the test cases. This is done in the unit level.

* + 1. Black Box Testing:

It is also called as behavioral/specification based input/output testing.

In this the testing is done without looking at the code or without knowing the code.

* + 1. Grey Box Testing:

It is a combination of white box and Black box testing. The tester does not know the code but has the design of the modules and diagram which helps in understanding the working of the code.

#### Registration:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | First Name : Kiriya Last Name : Moon Username : Kiriya123 Password : Kiriya@123 confirm Password : Kiriya@123  Gender : Male email :  [Kiriya033@gmail.com](mailto:Kiriya033@gmail.com)  phone no. 9167389699 | Registered Successful | Registration Successful | pass |
| 2 | email : Ajay12 | invalid email | invalid email | pass |
| 3 | Password : RajDevkar | password must have 8-10 character and should contain uppercase letter, lowercase letter, and a special character | password must have 8-10 character and should contain uppercase letter,lowercase letter, and a  special character | pass |
| 4 | Password : Ajay@1234  Confirm Password : Ajay@2432 | Password doesn’t match | Password Doesn’t match | Pass |
| 5 | username : Kunal123 | User Already exists | User Already  exists | Pass |
| 6 | All Null values | Please enter detail | Enter the details | pass |

* + 1. **Login :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | username : kiriya123 password : Kiriya@123 | login Successful | Login Successful | Pass |
| 2 | username : Ajay123  passwrd : ajay$12 | invalid details | invalid details | pass |
| 3 | username : ABC@12 | invalid details | invalid details | pass |
| 4 | null | please enter the  data | details required | Pass |

#### Add Brand :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected output | Actual Output | Remark |
| 1 | Brand name : Tanishq | Brand Added Successfully | Brand Added Successfully | Pass |
| 2 | null | brand Name Required | Brand Added Successfully | Fail.  Added a validation for  empty string. |
| 3 | null | brand Name Required | Brand Name Required | Pass |

* + 1. **Add Category :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | Category Name : Gold | Category Added Successfully | Category Added Successfully | Pass |
| 2 | null | enter details | Category Added Successfully | Fail. Added a  Validation for  empty string. |
| 3 | null | enter details | enter details | Pass |

#### Add SubCategory :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | Category Type : gold Subcategory  Name : Rings | Subcategory Added Successfully | SubCategory Added Successfully | Pass |
| 2 | Category Type : Null Subcategory  Name : Coins | Category Type Required | Select Category Type | Pass |
| 3 | Subcategory Name : null | enter the name | SubCategory Added Successfully | Fail.  Added a  validation for empty string. |
| 4 | Subcategory  Name : null | enter the name | enter the name | pass |

* + 1. **Add Product Type :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no | Name | Expected Output | Actual Output | Remark |
| 1 | Product Type  Name : Gold | Product Type Added  Successfully | Product Type Added  Successfully | Pass |
| 2 | null | enter details | Product Type Added Successfully | Fail Added a empty  string  Validation |
| 3 | null | enter details | enter details | Pass |

#### Add Gender :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no | Name | Expected Output | Actual Output | Remark |
| 1 | Male | Added | Added successfully | pass |
| 2 | null | enter the gender name | Added successfully | Fail Added a empty  string validaton |
| 3 | null | enter the gender name | enter the gender name | pass |

* + 1. **Add Product SubType :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no | Name | Expected Output | Actual Output | Remark |
| 1 | product Type : Ring  Subtype Name :  gold Rings | subtype Added Successfully | Subtype Added Successfully | Pass |
| 2 | product Type : Null  Subtype Name :  Coins | sub Type name Required | Select product Type | Pass |
| 3 | Subtype Name : null | enter the name | Subtype Added Successfully | Fail  Added an empty string validation |
| 4 | Subtype Name :  null | enter the name | enter the name | pass |

#### Add Size :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | size name : 79.20mm  Brand : Tanishq Category : Gold Sub-category :  Rings product type : Rings  Product subtype  : gold ring Gender : Male | Size Added Successfully | Size Added successfully | Pass |
| 2 | Brand not  selected | Please select Brand | Please Select brand | Pass |
| 3 | Size name : | Please enter Size name | Size name not entered | Pass |
| 4 | Category and Product Type  not selected | Sub Category and sub type not visible | "select category to view Sub category; | Pass |

* + 1. **Add Products :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | Product Name : Vikrant Gold Name Selling Price : 15000  List Price : 17000 Brand : Tanishq Category : Gold Sub Category : Rings  Product Type : Rings  Sub Type : Engagement Rings Size : 17.72mm Weight : 20gm Gender : Male Quantity : 20 Description : Rings for Engagement Details : All the  details of the ring | Product added successfully | product Added Successfully | Pass |
| 2 | Select Product Type, Sub Type, Category,  Sub category, Gender | Product weight and size visible | Product weight and size not showing | Fail.  Binded Size and weight with onselected index changed  event |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 3 | category not  selected | select category | Select the category | Pass |
| 4 | Product type not  selected | select Product type | Select the type | pass |
| 5 | gender not selected | select gender | Select the Gender | Pass |
| 6 | product name :  NULL | Enter The Product Name | Enter the Product  name | Pass |
| 7 | Product Price :  NULL | Enter the Product Price | Enter the Product  Price | Pass |

#### Search Products :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | Vk | Search results shown | products visible | Pass |
| 2 | Rings | All Rings are shown | all rings are  shown | Pass |
| 3 | Null | please enter a name | Enter the name | Pass |
| 4 | Tanish  q | Tanishq products are shown | tanishq products  are shown | Pass |
| 5 | Male | Male Products are shown | Male Products are  shown | Pass |

* + 1. **Placing Order :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | name : kunal address :Kalwa pincode : 400605 city : thane  state : Maharashtra country : India email : kkewat912gmail.co m  phone no. : 9167389699  mode of payment :  offline | Order Placed Successfully | order placed successfully | pass |
| 2 | email : kkewat | incorrect email | incorrect email | pass |
| 3 | mode of payment : online | Redirect to payment gateway | Redirected to home page | Fail Inserted payment  gateway link instead of home page  link. |
| 4 | mode of payment :  online | Redirect to payment  gateway | Redirected to  payment gateway | pass |
| 5 | on cancelling online  payment | Redirect to cart | Redirect to cart | pass |

#### Review :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | Liked  the Product | Review Sent Successfully |  |  |
| 2 | Null | Please enter the review |  |  |
| 3 | Nice Product  s | Review Sent Successfully |  |  |

* + 1. **Forgot Password :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | email : [kkewat91@gmail.co](mailto:kkewat91@gmail.co)  m | email sent to email address | email sent | pass |
| 2 | email : [kunal@gmail.com](mailto:kunal@gmail.com) | no account registered with  the following email | unable to find account | pass |
| 3 | email : Null | please enter the email | please enter the  email | pass |

* + 1. **User Account :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| no. | Name | Expected Output | Actual Output | Remark |
| 1 | New Password :  Kunal@123 | Password Changed  Successfully | Password  Changed | Pass |
| 2 | New Password :  Null | enter password | enter password | pass |
| 3 | New Password : Sun | password should contain a uppercase later,  a lowercaseletter, a special character,  minumum 8 letters and maximum10 letter | password should contain a uppercase later,  a lowercaseletter, a special character, minumum 8 letters and  maximum10 letter | pass |
| 4 | Delete Account | Account deleted | Account deleted  successfully | Pass |

# Chapter 6 : Results and Discussion

### Test Report :

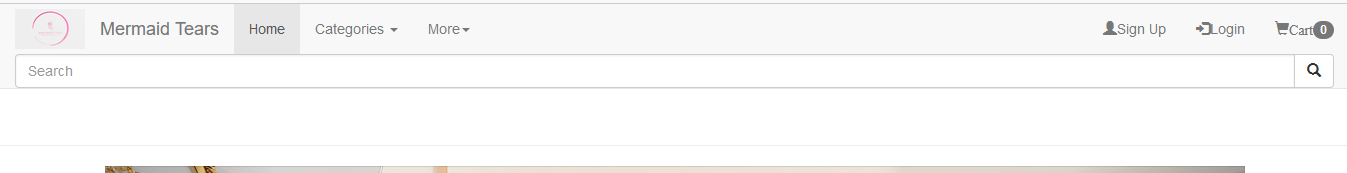
The Testing part in project documentation is a very important phase. This phase helps to know whether all the functionalities are being performed the way that they are supposed to be executed.

The testing phase started with designing the test cases for each module as well as the designing process for integrating test cases were formed. Each module was analyzed and according to that test cases were formed. The test cases include input and the expected output to be seen after entering the values. After designing the test cases, the test cases were checked by actually entering the inputs and checking from different users whether they are getting the expected output or not. If the expected output matched the actual output then the test cases were remarked as successful or else remarked as failed. Not all the values were tried or tested but the process made sure the system would be able to cope up with any values.

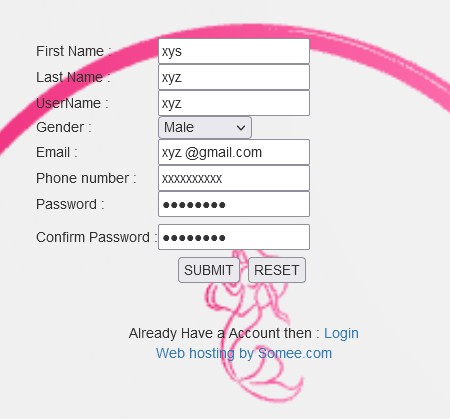
After performing all the test cases, there were no more errors , so no more modification were needed in the respective modules. However sometimes some minor bugs were seen somewhere and were dealt accordingly without harming or changing any Modules.

### User Documentation :

* + 1. Open the website [http://mermaidtear.somee.com](http://mermaidtear.somee.com/)
    2. You will be redirected to default page as guest user. Then on the top right click on Register/sign up to register as new user.

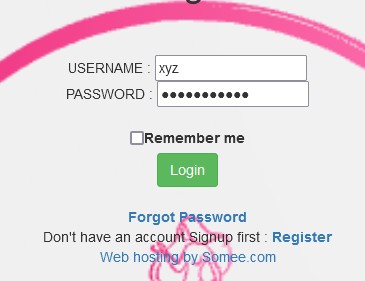


* + 1. Register page will open enter all details and click on Submit.

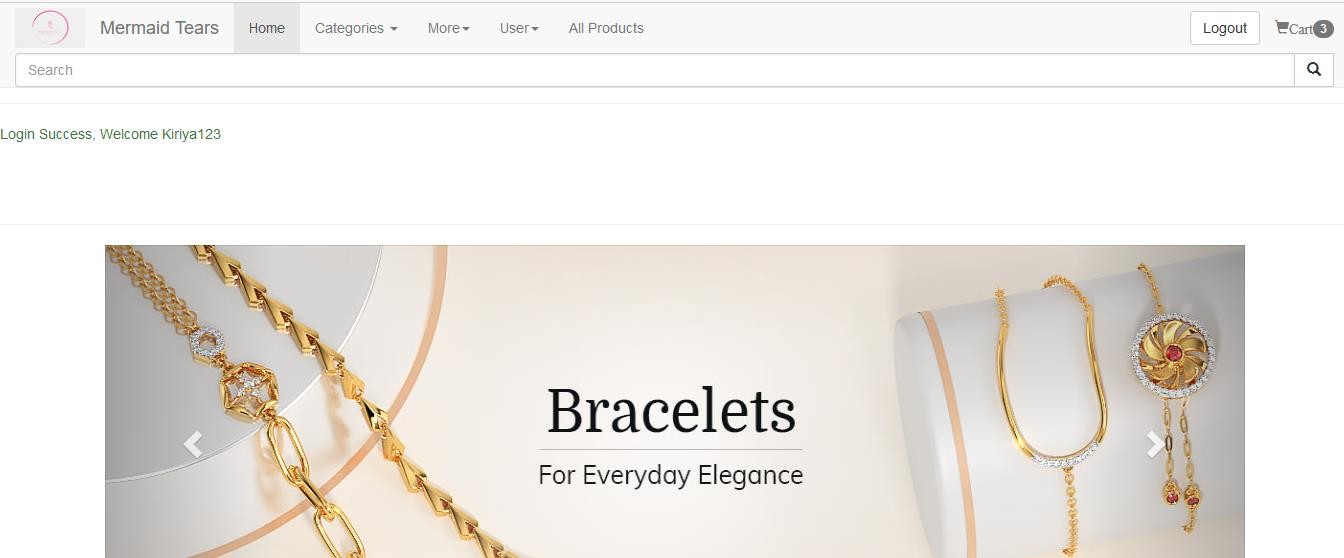


After Successful Registration or if you are already a registered user then click on login button.

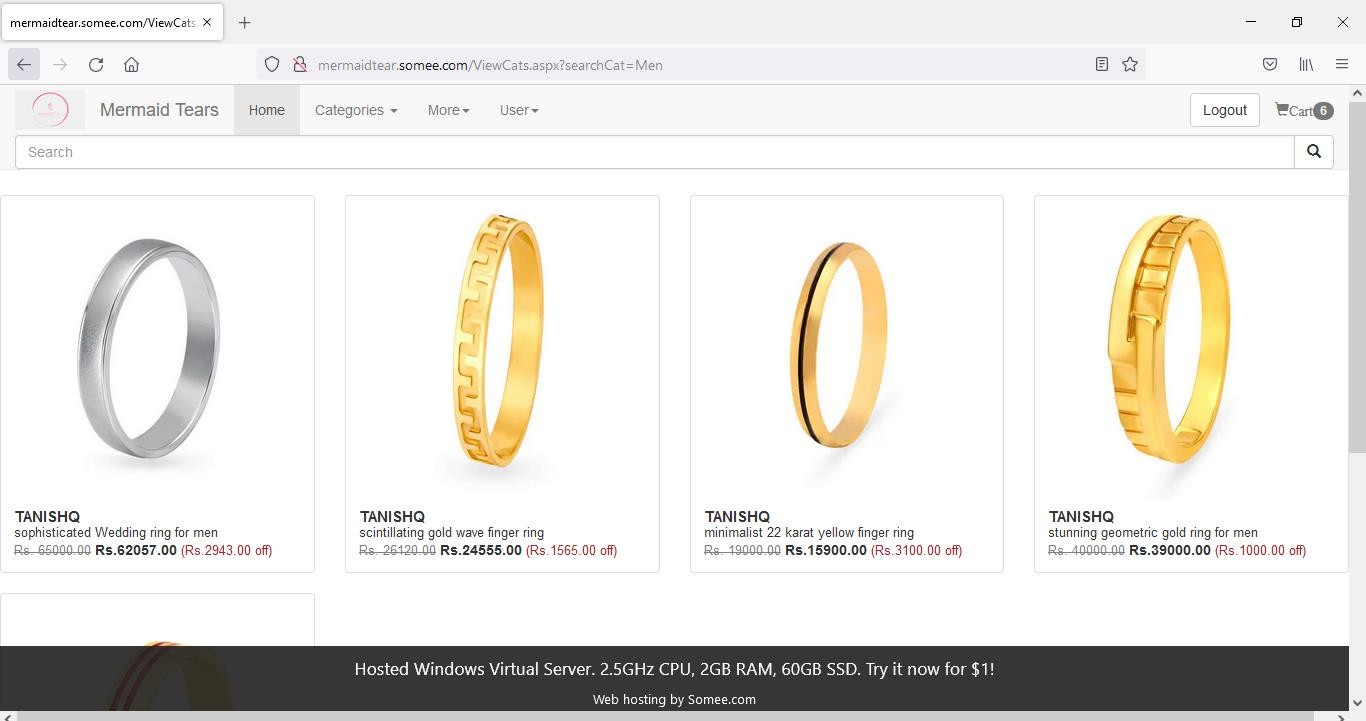
* + 1. On login page enter all the details and click on the submit button.



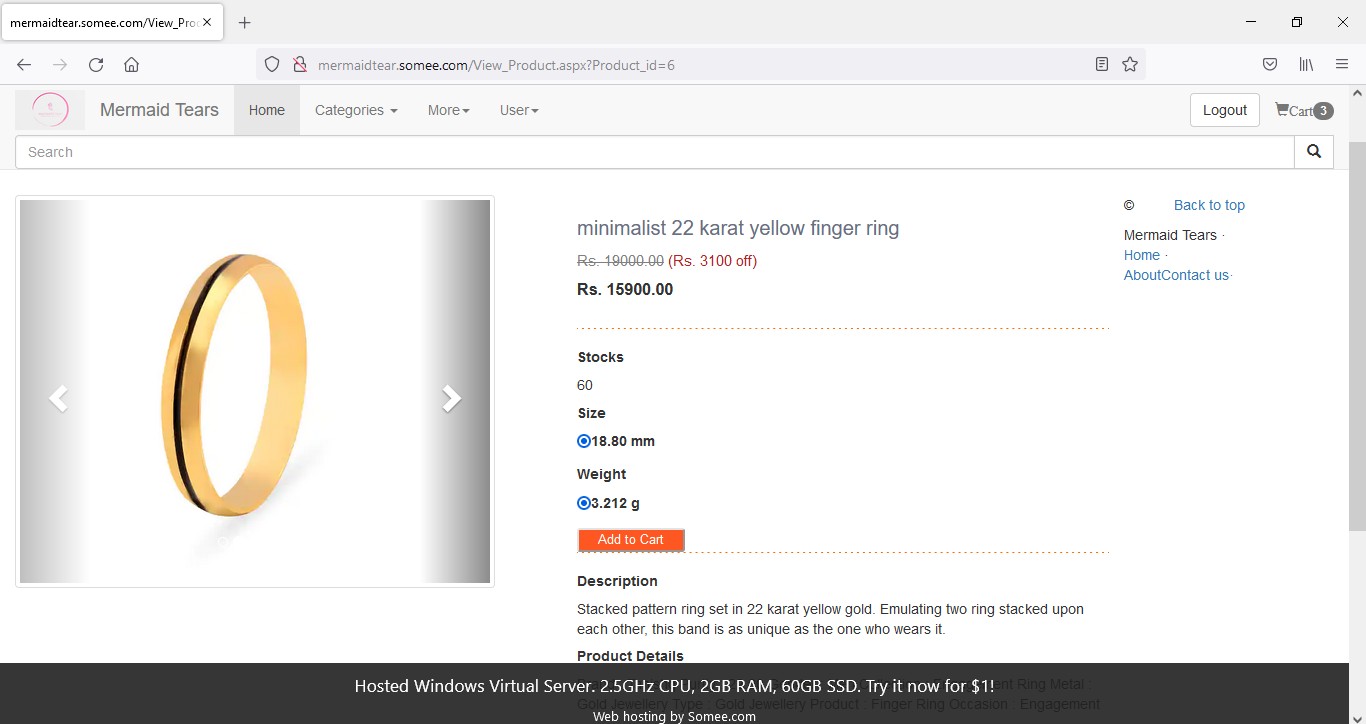
* + 1. You will be redirected to user home page.
    2. On home page you can view categories, search products, view your carts, view your account.



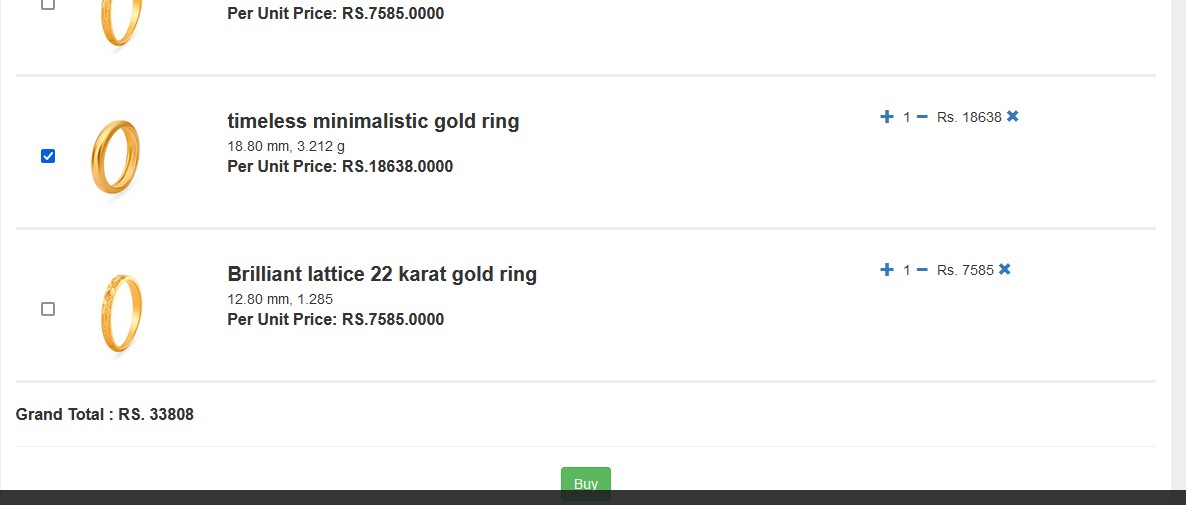
* + 1. Click on all products or search for a product.



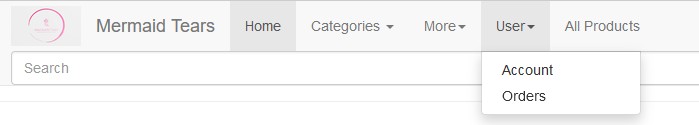
* + 1. Click on any Product to view its detail. And if you want to buy it then click on add to cart button.

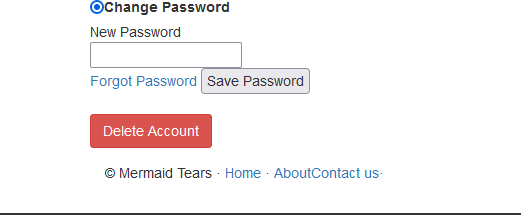


* + 1. To Buy products. Go to cart and select the products and click on buy button.

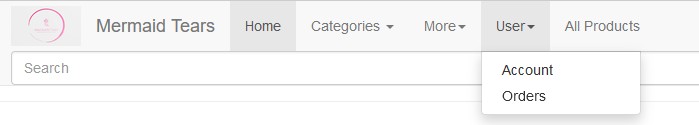


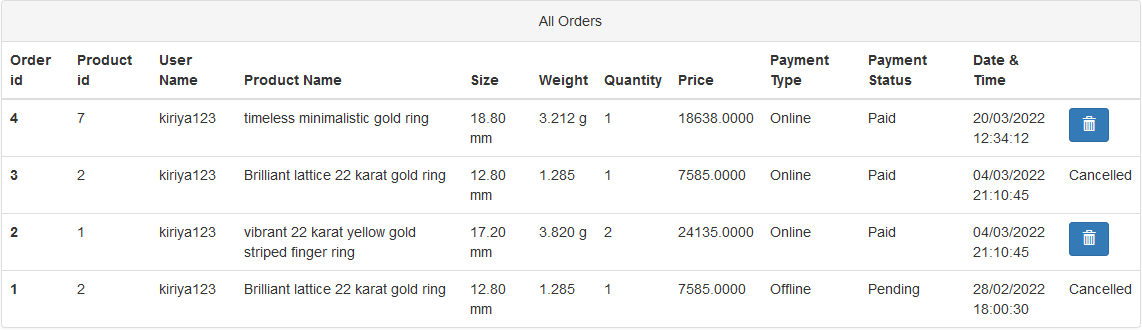
* + 1. On checkout page give all the details and click select the payment type and click on buy button.
    2. Your order will be placed
    3. To Change the password click on user button then click my account then select change password and enter the password and click on update password.



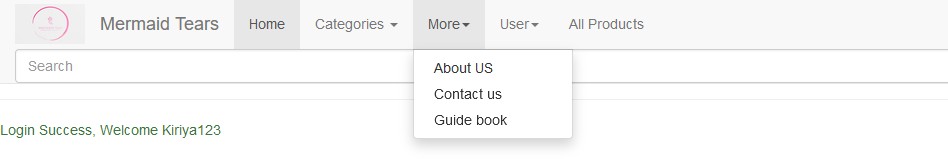


* + 1. To view the order click on order button right below my account button in the user tab.





* + 1. He about us, contact us and the guide book for jewellery shopping is available in more tab.



* 1. **Conclusion :**

# Chapter 7 : Conclusion

The online jewellery website will be helpful for the customer as well as the

seller for buying and selling jewelleries. This will save their time as they can buy jewellery from their home. The seller will also will be able to make a large profit as many people will see the website and at their home convenience and it will increase the number of the customers.

The customer will be able to get a variety of choice to choose from and all the certified and hallmarked products at a good price and with discount and by sitting anywhere at their convenience saving time and money.

There will be many types of brands and categories to choose from and products of all types will be available. This system will create a bridge between the Customer and seller which will help them to overcome the barrier of time and place. T

The customer can write any review which will be available to seller to view and thus they can work on any improvement needed. The customer can also request for any custom made jewellery to the seller which the seller will make after proper discussion with the customer.

### Limitations :

* + - User cannot view live gold and silver rates.
    - Bill/Receipt is not generated on placing the order.
    - User can update only their password.
    - Admin cannot reply directly from the page to any reviews or customization request, They have to copy the users email address and paste it in the mail recipients to reply them.
    - User cannot select any different size or weight of the products.
    - Price cannot change if different size or weight of products is choosed.
    - Proper category name as mentioned in database should be available for viewing the products on slider click of category click.
    - Since the payment button is used in this website and real money will be deducted the amount is set to Rs.1 for online payment on any products.
    - Payment gateway for shopping website was unable to integrate with the website.

### Future Scope :

* + - Payment Gateway can be integrated to make the payment of the products and their amount.
    - Create a link for incoming and outgoing response between the customer and the seller.
    - It can be made more dynamic for better use .
    - The system can be divided into more parts where the seller can also be added into the system as right now only customer and admin are present in the picture.
    - The guide book can be made more easy to unserstand by the user.
    - AI can be used for trying the jewellery by 3d try view through the device.

**Bibilography and References**

**Books Referred :**

* + - Uml Tutorialspoint
    - Software Engineering,”Ian Somerville”, pearson publisher 8 edition
    - Database System Conceptes,”Henry F Korth, Abraham Silberschatz”
    - Beginning Asp.net 4.5 in C#,”Mattew MacDonald”,Apress

### Website References :

The Links referred from the date 9/07/2021 to 15/10/2021 :

* + - [https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&uact=](https://www.google.com/url?sa=t&rct=j&q&esrc=s&source=web&cd&cad=rja&uact=8&ved=2ahUKEwiEv8Lt8OnzAhUXAXIKHQrDBKMQFnoECAUQAQ&url=https%3A%2F%2Fwww.ablebits.com%2Foffice-addins-blog%2F2014%2F05%2F23%2Fmake-gantt-chart-excel%2F&usg=AOvVaw3fF-Mv94XWAM04rBGCSFS7) [8&ved=2ahUKEwiEv8Lt8OnzAhUXAXIKHQrDBKMQFnoECAUQAQ&url=https%3](https://www.google.com/url?sa=t&rct=j&q&esrc=s&source=web&cd&cad=rja&uact=8&ved=2ahUKEwiEv8Lt8OnzAhUXAXIKHQrDBKMQFnoECAUQAQ&url=https%3A%2F%2Fwww.ablebits.com%2Foffice-addins-blog%2F2014%2F05%2F23%2Fmake-gantt-chart-excel%2F&usg=AOvVaw3fF-Mv94XWAM04rBGCSFS7) [A%2F%2Fwww.ablebits.com%2Foffice-addins-blog%2F2014%2F05%2F23%2Fmake-](https://www.google.com/url?sa=t&rct=j&q&esrc=s&source=web&cd&cad=rja&uact=8&ved=2ahUKEwiEv8Lt8OnzAhUXAXIKHQrDBKMQFnoECAUQAQ&url=https%3A%2F%2Fwww.ablebits.com%2Foffice-addins-blog%2F2014%2F05%2F23%2Fmake-gantt-chart-excel%2F&usg=AOvVaw3fF-Mv94XWAM04rBGCSFS7) [gantt-chart-excel%2F&usg=AOvVaw3fF-Mv94XWAM04rBGCSFS7](https://www.google.com/url?sa=t&rct=j&q&esrc=s&source=web&cd&cad=rja&uact=8&ved=2ahUKEwiEv8Lt8OnzAhUXAXIKHQrDBKMQFnoECAUQAQ&url=https%3A%2F%2Fwww.ablebits.com%2Foffice-addins-blog%2F2014%2F05%2F23%2Fmake-gantt-chart-excel%2F&usg=AOvVaw3fF-Mv94XWAM04rBGCSFS7) (2 days)
    - Draw io: <https://app.diagrams.net/>(1 month)
    - Geeks for Geeks: <https://www.geeksforgeeks.org/>(15 days)
    - Wikipedia: [https://en.wikipedia.org](https://en.wikipedia.org/) (5days)
    - JavaPoint: <https://www.javatpoint.com/software-processes> (10 days)
    - Project topic ideas : <https://nevonprojects.com/project-ideas/software-project-ideas/> (4 days)
    - Youtube : [https://www.youtube.com](https://www.youtube.com/) (7 days)

The Links referred from the date 20-Nov-2021 to 1-April-2022:

* + - W3School : [https://www.w3schools.com](https://www.w3schools.com/) (3 Months)
    - W3School Bootstrap3 : [https://www.w3schools.com/bootstrap/default.asp (2](https://www.w3schools.com/bootstrap/default.asp%20(2) months)
    - Asp snippets : <https://www.aspsnippets.com/>(10 days)
    - C# corner : <https://www.c-sharpcorner.com/>(3 months)
    - Geeks for Geeks : <https://www.geeksforgeeks.org/>(2 months)
    - Stack Overflow : <https://stackoverflow.com/>(4 months)
    - Youtube : [https://www.youtube.com](https://www.youtube.com/) (2 months)