

**TITLE OF THE PROJECT**  
**ONLINE SHOPPING PORTAL**

By

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**P181310**

**MSCT23 – SOFTWARE ENGINEERING**  
**PROJECT REPORT**

**MASTER OF SCIENCE**

*in*

**COMPUTER SCIENCE**



**CENTRAL UNIVERSITY OF TAMIL NADU**  
**THIRUVARUR – 610 005**  
**APRIL 2019**

## **BONAFIDE CERTIFICATE**

Certified that this project report “**ONLINE SHOPPING PORTAL**” is the bonafide work of **KADALI SAI KALYAN** who carried out the project under my supervision for the course title **MSCT23: SOFTWARE ENGINEERING**

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*Department of Computer Science*  
*Central University of Tamil Nadu*  
*Thiruvavur – 610 005*

## DECLARATION

We hereby declare that this project titled “**ONLINE SHOPPING PORTAL**” submitted for the course **MSCT23: SOFTWARE ENGINEERING**, Department of Computer Science, School of Mathematics and Computer Science, Central University of Tamil Nadu, Thiruvarur – 610 005, is a record of bonafide project work carried out by us under the guidance and supervision of ***Dr.A.Martin, Department of Computer Science, Central University of Tamil Nadu, Thiruvarur – 610 005.*** This work is original and has not been submitted, in part or full to this or any other University / Institution.

Place: Thiruvarur

Date:

Signature

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## **ACKNOWLEDEGMENT**

I have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals and my teaching staff. I would like to extend my sincere thanks to all of them.

I am highly indebted to Dr. Martin, my guide for his guidance and constant supervision as well as for providing necessary information regarding the project & also for his support in completing the project. He has also helped me in doing a lot of Research and i came to know about so many new things I am really thankful to them.

I would like to express my gratitude towards my seniors and classmates for their kind co-operation and encouragement which help me in completion of this project.

I would like to express my special gratitude and thanks to industry persons for giving me such attention and time.

## **Abstract of the project**

The purpose of online shopping is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements. So that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

# **1. Introduction**

## **1.1 About the Project**

### **1.1.1 Objective:**

1. The objective of the system is to provide the customer with on-the-click functionality that helps them to search over a variety of products at a centralized location and buy the products that best suit their requirements in an easier and faster fashion.
2. The software system is designed in such a way that anyone can view the updates of the products being offered on the website at any time that too easily.
3. The system also aims at providing the customers with a quick and easy way to compare the products being offered.
4. The software will help in easy maintaining and updating products in the website for the administrator.

### **1. 1.2 Scope of the Project**

1. The scope of the system is to provide the users with an account through the process of registration and with a mechanism that lets the customer give some feedback or ask a query pertaining to the products being offered online.
2. The system also helps in carrying out the transactions with the help of simple shopping cart and checkout system.
3. The system will also reduce the manual operation associated with the maintenance of the records consisting of the product order details, customer details.
4. The system also facilitates user by providing an easy search mechanism to search his desired product on the basis of product name, category and brand.

## **2. PROBLEM DEFINITION AND FEASIBILITY ANALYSIS**

### **2.1 Introduction**

There are the Problem areas for our Project:

1. As a User, the customer gets confusion of different models.
2. The customer will know the price of the products.

### **2.2 PROBLEM DEFINITION**

#### **2.2.1 EXISTING SYSTEM**

1. In the existing system all transactions, dealings of products, purchasing of products were done manually which is time consuming.
2. Reports are prepared manually as and when needed. Maintaining of reports is very tedious task.
3. To buy any product user has to collect information about it either by visiting the shop or asking people which is the better one.

#### **2.2.2 DRAWBACKS OF EXISTING SYSTEM**

1. There is no computer system for handling payments. All calculations are performed manually which may not be accurate always. Maintaining the record is really a tedious task.
2. Any internet user can use this existing website to search for any kind of products, select particular products from a wide range of products.
3. Once they make of their mind to purchase any particular thing they can place an order and make a payment throw various available payment option.

#### **2.2.3 PROPOSED SYSTEM**

1. Online Shopping portal is a specific requirement of the client that integrates the buying and selling services specifically to their customers.\
2. Need for the new system is due to major drawbacks of existing system.
3. Reports can be generated at any time within few seconds, so that manual labour is not required, and also analysis can be performed much more frequently which helps in taking decision.
4. The details regarding all users, products can also be maintained as their information is very helpful and sometimes becomes a critical requirement.
5. Allows user to get registered from their places and transact for the required product.



6. To overcome these problems in existing system we develop “**Online Shopping Portal**”.

#### **2.2.4 FEATURES OF PROPOSED SYSTEM**

1. Convenience
2. Consistency of Data
3. Reliability
4. Increases Productivity
5. Easy update and Maintenance Operations
6. Variety
7. Speed Optimization and reduce paper work

### **3. SOFTWARE REQUIREMENTS SPECIFICATION**

#### **3.1 HARDWARE REQUIREMENTS**

##### **3.1.1 Server side**

1. Processor: 2.0 GHz
2. Hard disk: 50 GB Free Space
3. RAM: 2GB

##### **3.1.2 Client side**

1. Processor: 1.0 GHz
2. Hard Disk: 2 GB Free Space
3. RAM: 1GB

#### **3.2 SOFTWARE REQUIREMENTS**

##### **3.2.1 Server side**

1. Operating System: Windows 8
2. Web Server: Chrome, Internet Explorer
3. Front-end Tool: HTML, CSS, Java script
4. Back-end Tool: PHP, My SQL

##### **3.2.2 Client side**

1. Operating System: Windows 8
2. Web Server: Internet Explorer

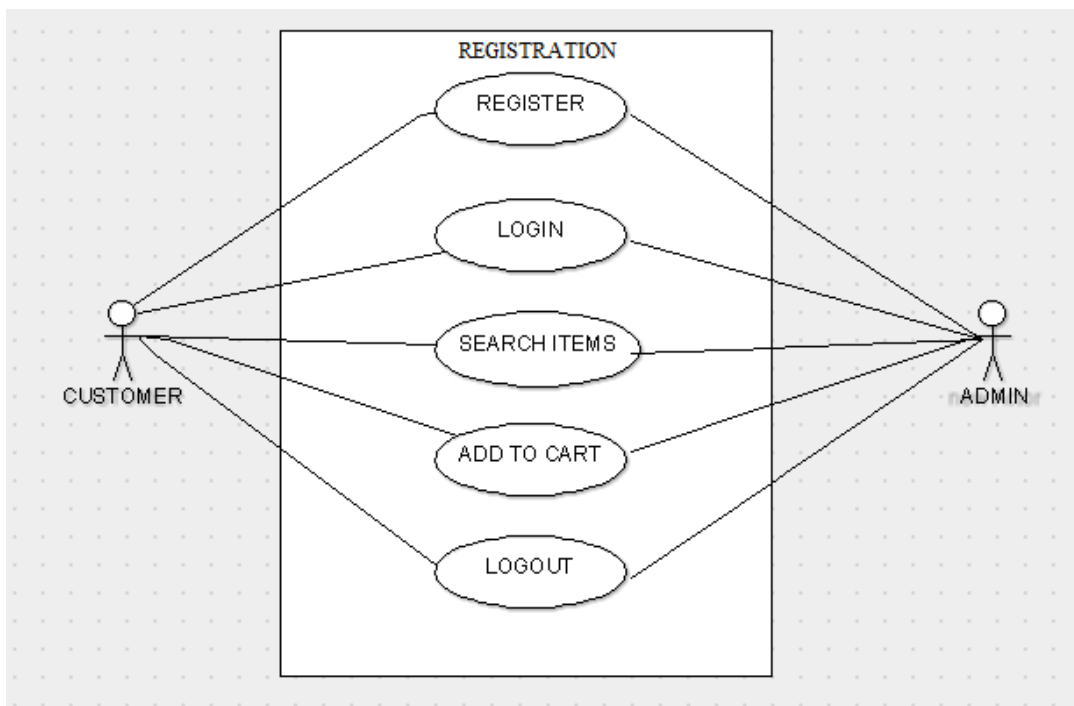
## 4 SYSTEM ANALYSIS

### 4.1 ELEMENTS OF ANALYSIS MODEL

#### 4.1.1 USE CASES AND USE CASE DIAGRAM

##### USE CASE NAME: CUSTOMER REGISTRATION

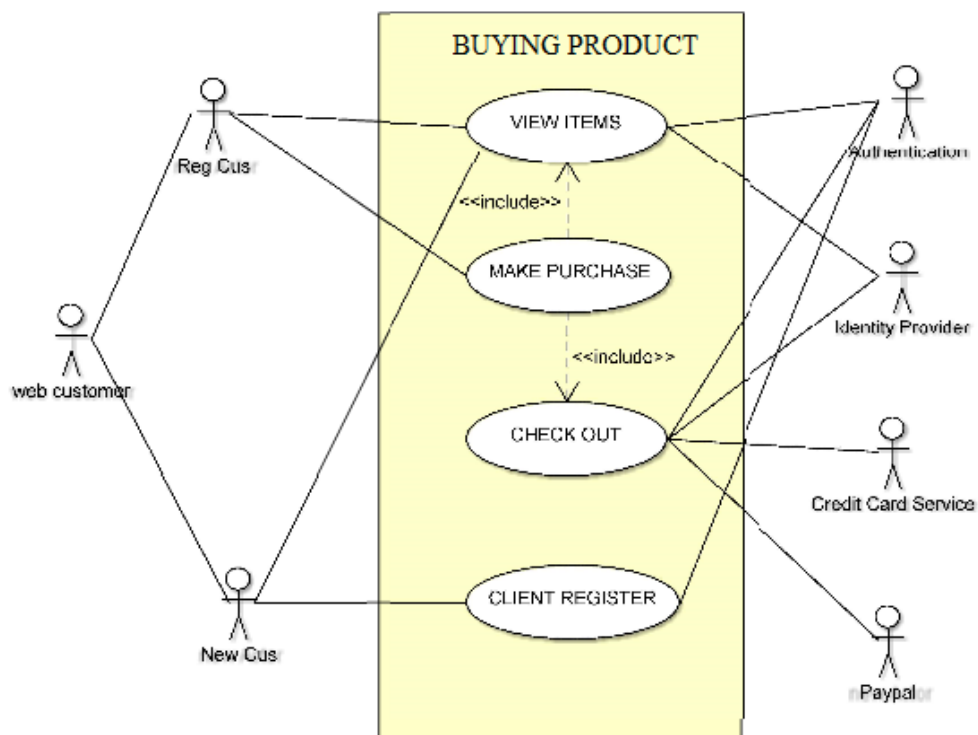
Use case name	Customer Registration
Participants	Customer
Entry conditions	Customer enter into the site
Flow of events	System ask the username and password 1. If the Customer is already registered, he enters the username and password. 2. If the customer is not registered, then he clicks on the new user registration. 3. Then he fill the customer registration form, then he clicks on the submit button.
Exit condition	Customer enters into the site if he it is valid.



Use case diagram for Customer Registration

## USE CASE NAME: BUY NOW

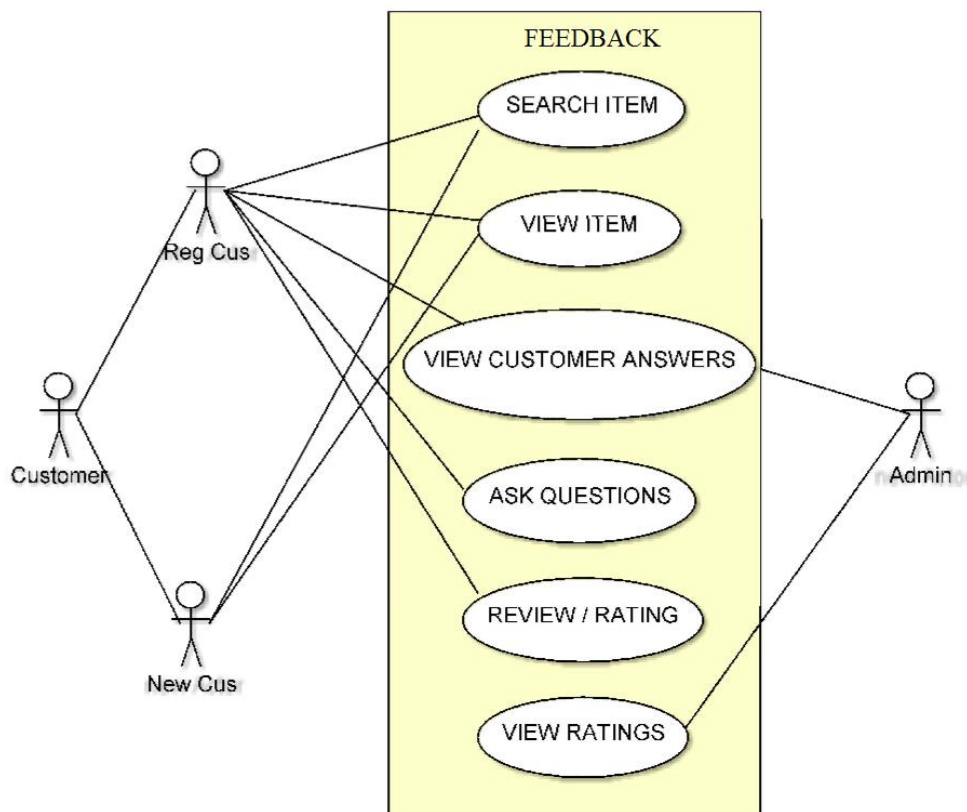
Use case name	Customer buy item
Participants	Customer
Entry condition	1. If Customer selects the item then he fill the buy now form and click the submit button.



Use case diagram for Buying Product

## USE CASE NAME: FEEDBACK

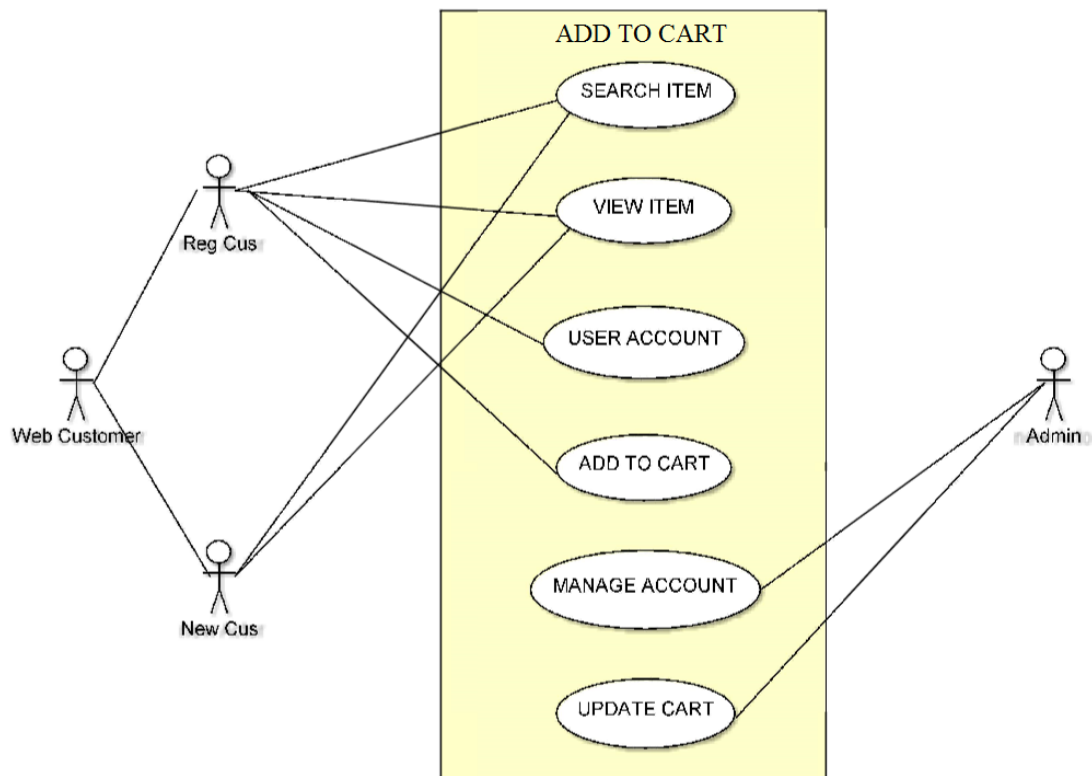
Use Case Name	Feedback
Participants	Customer
Entry condition	Customer login to the site
Flow of events	After login into the site, customer can give the feedback to the admin.
Exit condition	Customer logout from the site.



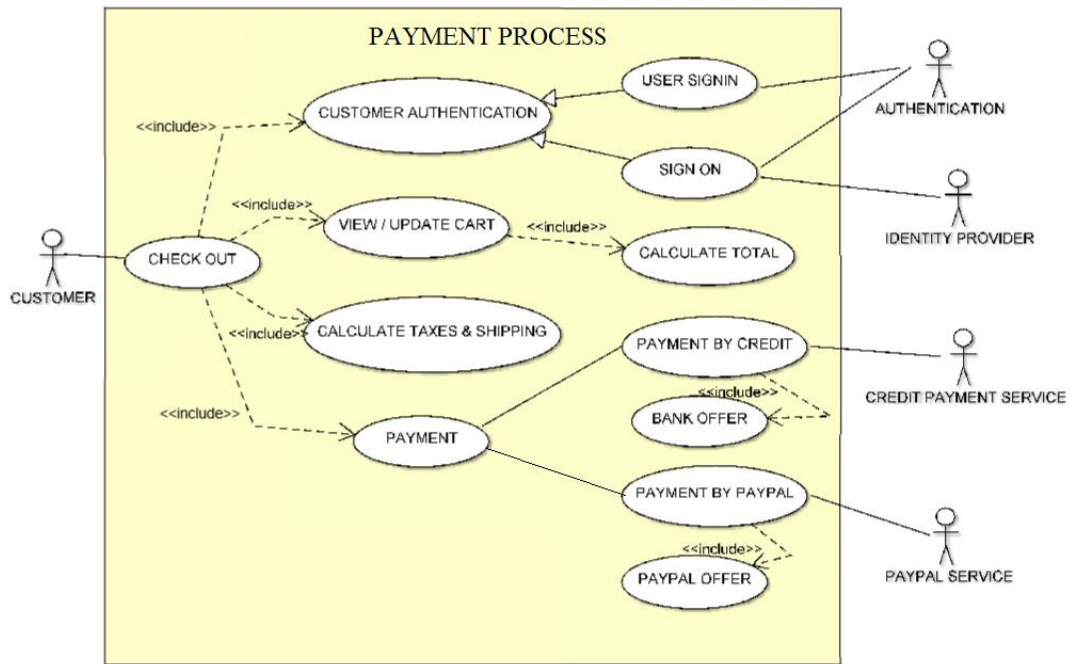
Use case diagram for Feedback

## USE CASE NAME: ADD TO CART

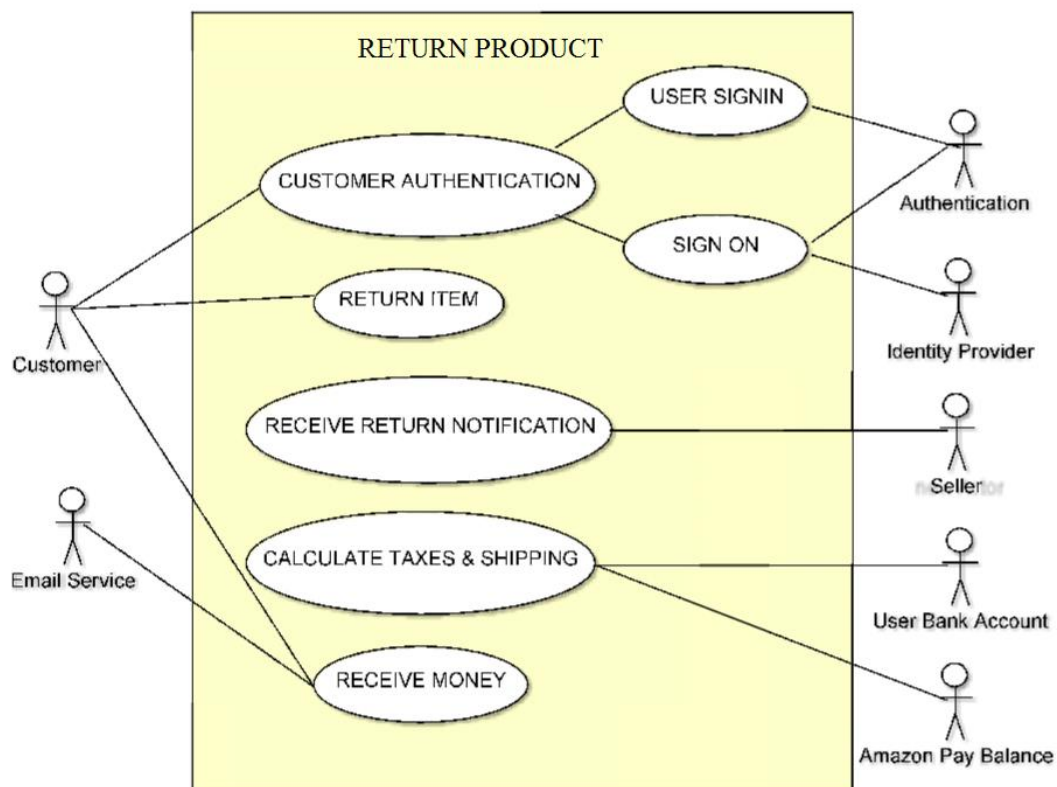
Use case Name	Add to cart
Participants	Customer
Entry condition	Customer login to the site
Flow of events	After the successful login, if the customer want to add the product into his cart then click the add to cart button.



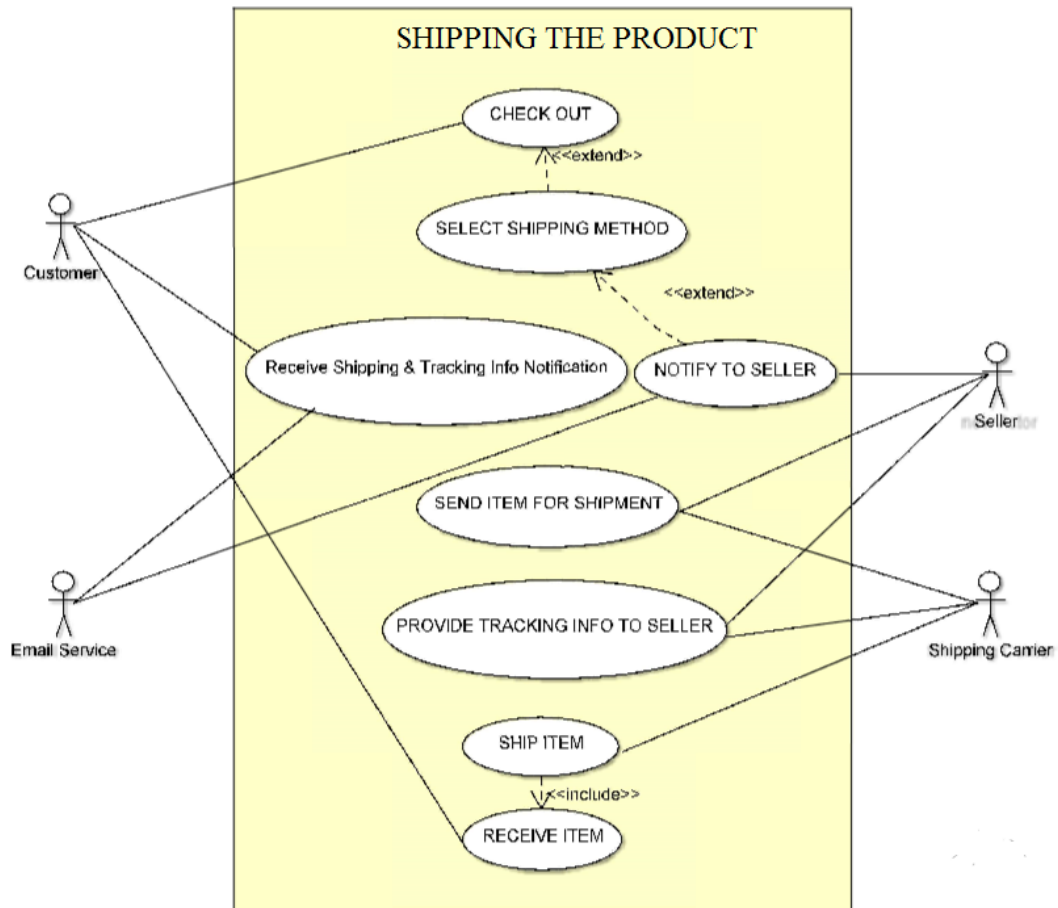
Use case diagram for Add to Cart



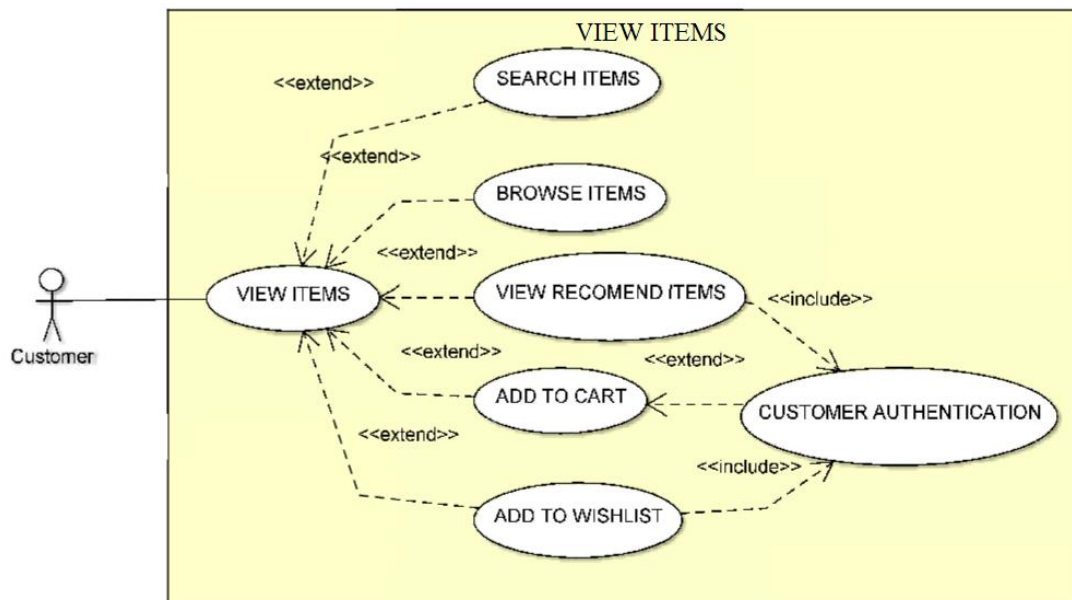
Use case diagram for Payment Process



Use case diagram for Return product

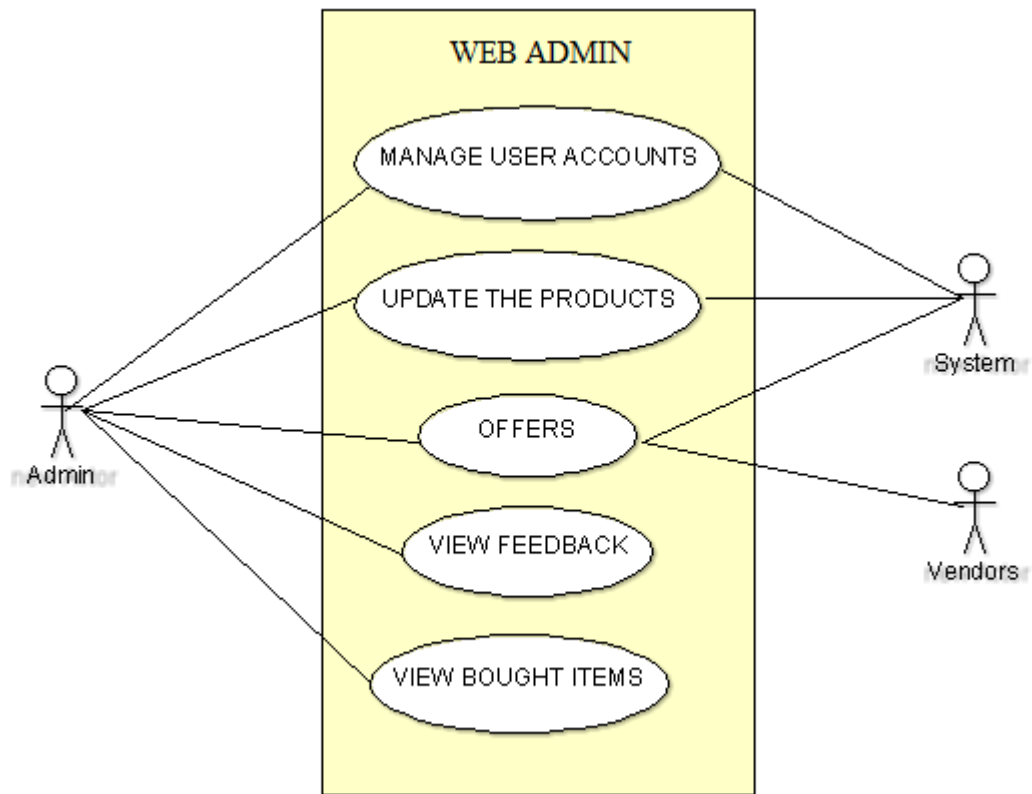


Use case diagram for shipping product



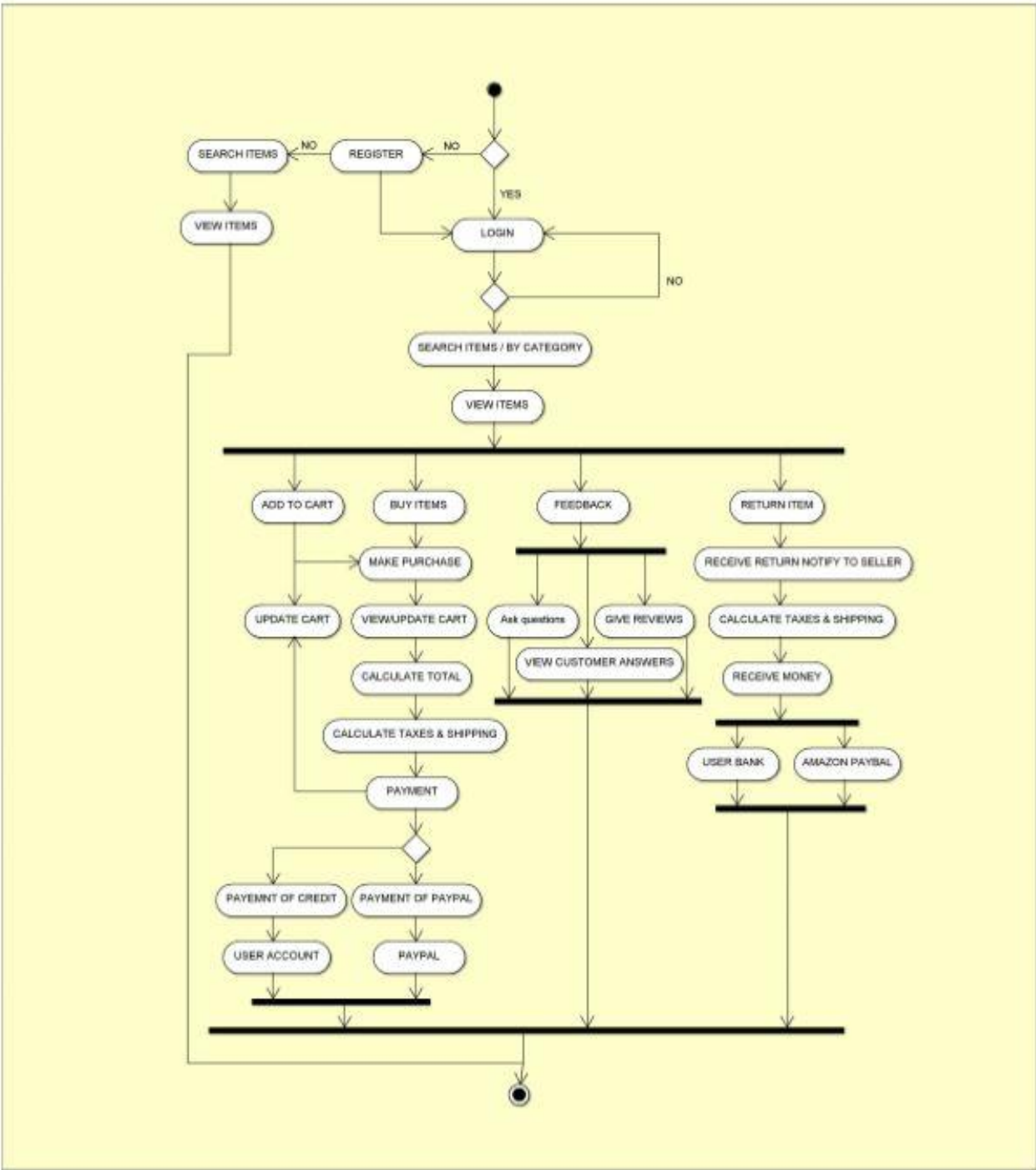
Use case diagram for View items





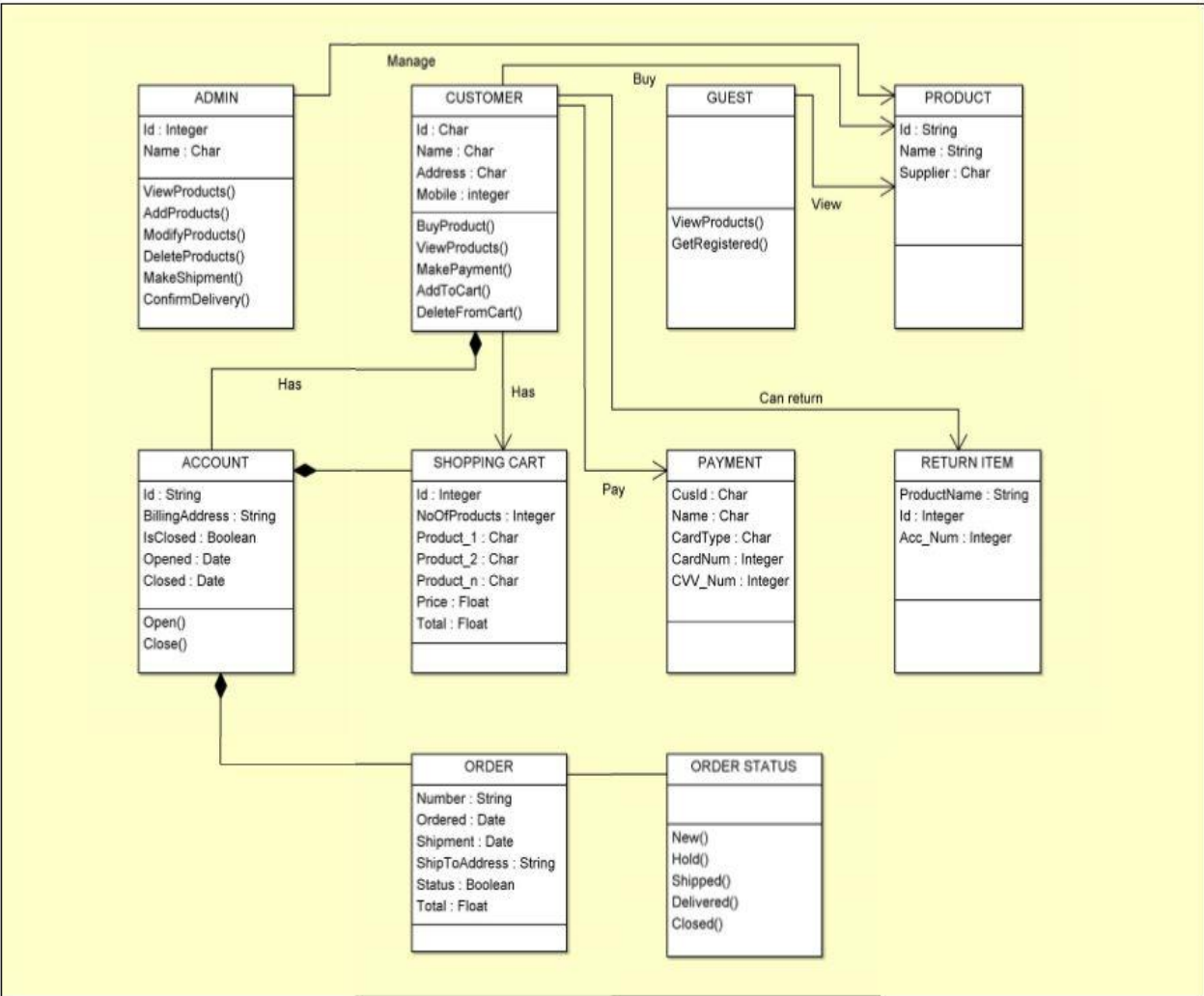
Use case diagram for Web Admin

4.4.2 ACTIVITY DIAGRAM



Activity diagram for Online Shopping Portal

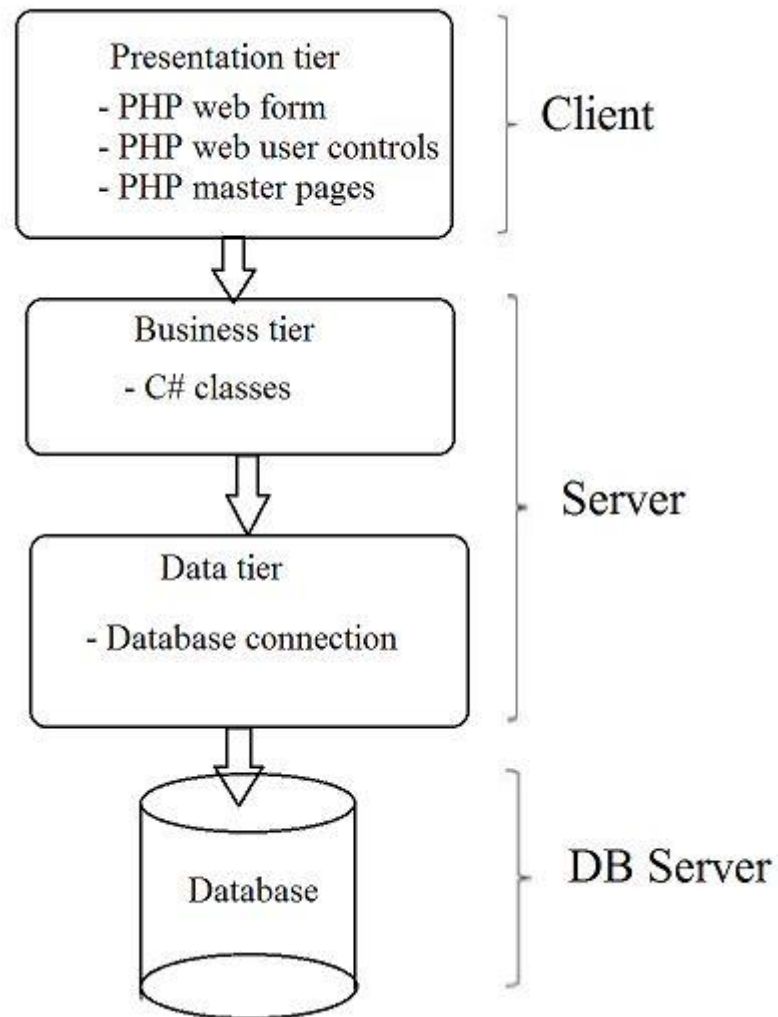
4.4.3 CLASS DIAGRAM



Class diagram for Online Shopping Portal

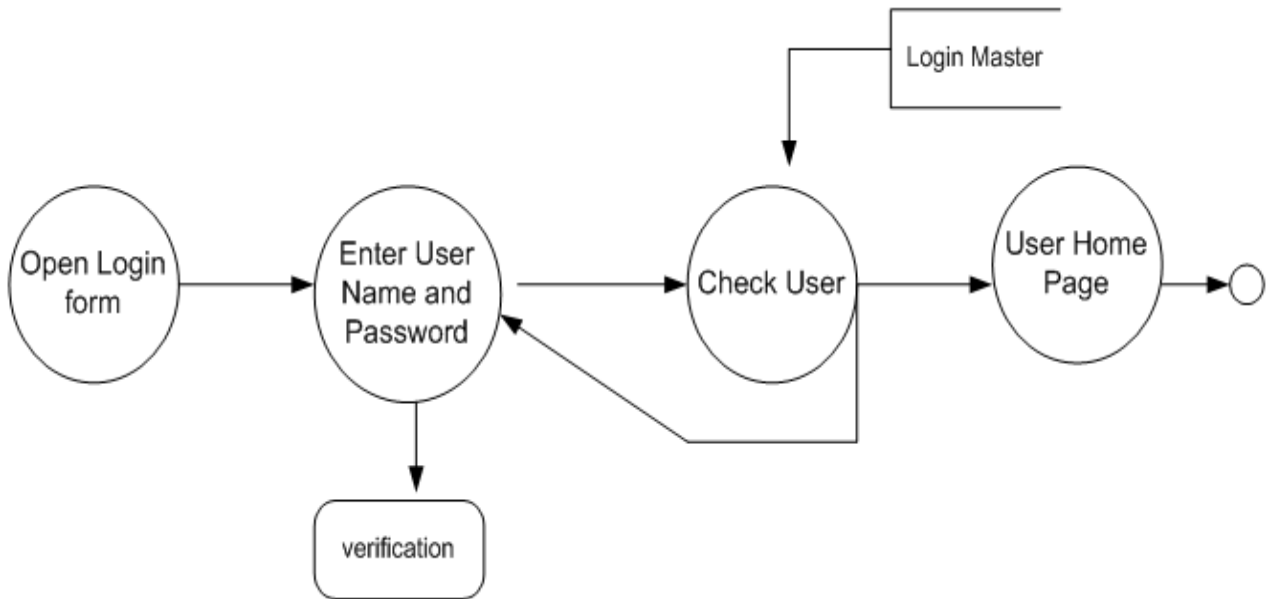
## 5. SYSTEM DESIGN

### 5.1 ARCHITECTURAL DESIGN



3 – Tier Architectural design for Online Shopping

## 5.2 DATA DESIGN



Data design for Online Shopping

### 5.3 USER INTERFACE DESIGN

WELCOME TO FUNCART				
your Funcart	Products	Today's deal	Sign in	Cart
	Electronics			
	Clothing			
	Other items			
	Add to Cart		Submit	

## 6. IMPLEMENTATION

### Index.html

```
<HTML>
  <HEAD>
    <meta charset="utf-8">
    <TITLE></TITLE>
    <style>
      <meta name="viewport" content="width=device-width, initial-scale=1">
      <link
        href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/css/bootstrap.min.css">
        rel="stylesheet"
      <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
      <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.min.js"></script>

.header{
  position : fixed;
  top : 0px;
  background-color : #C0C0C0;
  height : 120px;
  width : 100%;
  text-align : left;
  z-index:1;
}

#containerss{
  margin-top:20px;

}

#containerss ul
{
  list-style:none;

}

#containerss ul li
{
  background:transparent;
```

```

width:120px;
border:0px solid white;
height:40px;
line-height:40px;
text-align:center;
float:left;
color:white;
font-size:13px;
position:relative;

}
#containerss a
{
    text-decoration:none;
    color:white;
}
#containerss ul li:hover
{
    border-bottom:5px solid red;
    background-color:black;
}
#containerss ul ul
{
    display:none;
    margin-left:-40px;
}
#containerss ul li:hover > ul
{
    display:block;
}
#containerss ul ul ul
{
    margin-left:180px;
    top:0px;
    position:absolute;

```



```
}
```

```
iframe
{
position:absolute;
top:100%;
left:-25%;
height:500%;
width:178%;
overflow:auto;
background-color:#F0F0F0;
z-index:-1;

}
```

```
</style>
```

```
</HEAD>
```

```
<BODY>
```

```
<div class="header" style="          position : fixed;
    top : 0px;
    background-color : #C0C0C0;
    height : 120px;
    width : 100%;
    text-align : 15px;
    z-index:1;">
```

```
    <div class="title" style="margin-top: 20px;margin-left: 20px;"><font face="Viner Hand
ITC"    size="5px"    color="orange">Fun</font><font    face="Russo  One"    color="blue"
size="5px">Cart</font><font face="Russo One" color="black" size="15px">.com</font></div>
```

```
    </div>
```

```
    <div class="container" style="position:fixed; top:5px;left:200px;z-index:2">
```

```
        <input            class="form-control"            id="myInput"            type="text"
placeholder="Search.." style="height : 35px;width : 600px;border : 1px solid red;border-radius :
5px;float : center;margin-top : 15px;margin-left : 60px;">
```

```

<div id="containerss" onmouseover="zf()" onmouseout="yf()">
    <ul>
        <li><a href="part2.html" target="a">Your
FunCart.in</a></li>
        <li><a href="#">Products</a>
            <ul>
                <li><a href="#">Books</a></li>
                <li><a href="#">Clothing</a></li>
                <li><a href="#">Home & Kitchen</a></li>
                <li><a href="ele.html"
target="a">Electronics</a></li>
                <li><a href="#">Shoes</a></li>
            </ul>
        </li>
        <li><a href="deal.html">Today's Deals</a> </li>
        <li><a href="aboutus.html">About Us</a></li>
        <li><a href="#">Hello Sign in </a>
            <ul>
                <li><a href="login.html">Sign In</a></li>
                <li><a href="register.html">Sign Up</a></li>
            </ul>
        </li>
        <li><a href="view.php">Cart</a></li>
    </ul>
</div>
<div class="content">
    <iframe name=a src="part2.html" id="B"></iframe>
</div>
</div>

<script>
function zf()
{
    document.getElementById('B').style.zIndex=-1;
}

```

```

        function yf()
        {
            document.getElementById('B').style.zIndex=10;
        }
    </script>

    <script>
        $(document).ready(function(){
            $("#myInput").on("keyup", function() {
                var value = $(this).val().toLowerCase();
                $("#myDIV *").filter(function() {
                    $(this).toggle($(this).text().toLowerCase().indexOf(value) > -
1)
                });
            });
        });
    </script>
</BODY>

```

</HTML>

### **Ele.html**

```

<html>
<head>
<title>Electronics page</title>
<link rel="stylesheet" href="style1.css">
<style>
a{position:relative;top:-170px;}
</style>
</head>
<BODY>

<div class="image">
<div style="margin-left:80px;margin-top:30px;"></div>

```

```

<br><br><div
                                style="margin-top:-290px;margin-left:400px;"><p
onmouseover="this.style.color='blue'"      onmouseout="this.style.color='black'"      style="font-
size:40;">Redmi Note 5 Pro 4.5 out of 5 </p>
<p style="font-size:22;">M.R.P: <strike>Rs 15,961.00</strike></p>
<p style="font-size:22;">Price: <font color="red"> Rs 13,872.00</font><br><font color="blue">
FREE DELIVARY</font>
<font color="blue">FREE Returns</font></p>
<p style="font-size:22;">You Save: <font color="red">Rs 2,089.00</font></p>
<p>Inclusive of all taxes</p></div><br>
<a href="pay.html">BUY NOW</a>
</div>
<div style="display:none;">
    <form action="cart.php" method="post">

                                <input      type="text"
value=" Redmi Note 5 Pro 4.5 out of 5" name="p">

                                <input      type="text"
value="Rs 15,961.00" name="mrp">

                                <input      type="text"
value="Rs 13,872.00" name="price">

                                <input      type="text"
value="Rs 2,089.00" name="save">

                                <input      type="text"
value="Inclusive of all taxes" name="tax">

                                <input      type="text"
value="image1.jpg" name="img"></div><br><br><br>

                                <input      type="submit"
value="ADD TO CART" NAME="submit">
    </form>

<div class="image">
<br><br><div style="margin-left:80px;margin-top:30px;"></div>
<div style="margin-top:-290px;margin-left:400px;"><p onmouseover="this.style.color='blue'"
onmouseout="this.style.color='black'" style="font-size:40;">Mi Earphones Basic with Mic
(Black)</p>

```

```

<p style="font-size:22;">M.R.P: <strike>Rs 599.00</strike></p>
<p style="font-size:22;">Price: <font color="red"> Rs 399.00 </font><br><font color="blue">
FREE DELIVARY</font>
<font color="blue">FREE Returns</font></p>
<p style="font-size:22;">You Save: <font color="red">Rs 200.00</font></p>
<p>Inclusive of all taxes</p></div><br>
<a href="buyhere.html">BUY NOW</a>
</div>
<div style="display:none;">
    <form action="cart.php" method="post">

                                                                    <input        type="text"
value="Mi Earphones Basic with Mic (Black)" name="p">
                                                                    <input        type="text"
value="Rs 599.00" name="mrp">
                                                                    <input        type="text"
value="Rs 399.00 " name="price">
                                                                    <input        type="text"
value="Rs 200.00" name="save">
                                                                    <input        type="text"
value="Inclusive of all taxes" name="tax">
                                                                    <input        type="text"
value="ele2.jpg" name="img"></div><br><br><br>
                                                                    <input        type="submit"
value="ADD TO CART" NAME="submit">
    </form>

<div class="image">
<br><br><div style="margin-left:80px;margin-top:30px;"></div>
<div style="margin-top:-290px;margin-left:400px;"><p onmouseover="this.style.color='blue'"
onmouseout="this.style.color='black'" style="font-size:40;">fastrack men watch</p>
<p style="font-size:22;">M.R.P: <strike>Rs 2,500.00</strike></p>
<p style="font-size:22;">Price: <font color="red"> Rs 2,000.00 </font><br><font color="blue">
FREE DELIVARY</font>
<font color="blue">FREE Returns</font></p>

```

```

<p style="font-size:22;">You Save: <font color="red">Rs 500</font></p>
<p>Inclusive of all taxes</p></div><br>
<a href="buyhere.html">BUY NOW</a>
</div>
<div style="display:none;">
    <form action="cart.php" method="post">
                                                <input        type="text"
value="fastrack men watch " name="p">
                                                <input        type="text"
value="Rs 2,500.00" name="mrp">
                                                <input        type="text"
value="Rs 2,000.00" name="price">
                                                <input        type="text"
value="Rs 500" name="save">
                                                <input        type="text"
value="Inclusive of all taxes" name="tax">
                                                <input        type="text"
value="image7.jpg" name="img"></div><br><br><br>
                                                <input    type="submit"
value="ADD TO CART" NAME="submit">
    </form>

<div class="image">
<br><br><div style="margin-left:80px;margin-top:30px;"></div>
<div style="margin-top:-290px;margin-left:400px;"><p onmouseover="this.style.color='blue'"
onmouseout="this.style.color='black'" style="font-size:40;">Samsung Galaxy A50 (Blue, 4GB
RAM + 64GB) </p>
<p style="font-size:22;">M.R.P: <strike>Rs 21,000.00</strike></p>
<p style="font-size:22;">Price: <font color="red"> Rs 19,990.00</font><br><font color="blue">
FREE DELIVARY</font>
<font color="blue">FREE Returns</font></p>
<p style="font-size:22;">You Save: <font color="red">Rs 1,010.00</font></p>
<p>Inclusive of all taxes</p></div><br>
<a href="buyhere.html">BUY NOW</a>

```

```

</div>
<div style="display:none;">
    <form action="cart.php" method="post">

value="Samsung Galaxy A50 (Blue, 4GB RAM + 64GB) " name="p">
value="Rs 21,000.00" name="mrp">
value="Rs 19,990.00" name="price">
value="Rs 1,010" name="save">
value="Inclusive of all taxes" name="tax">
value="ele4.jpg" name="img"></div><br><br><br>
value="ADD TO CART" NAME="submit">
    </form>

</body>
</html>

```

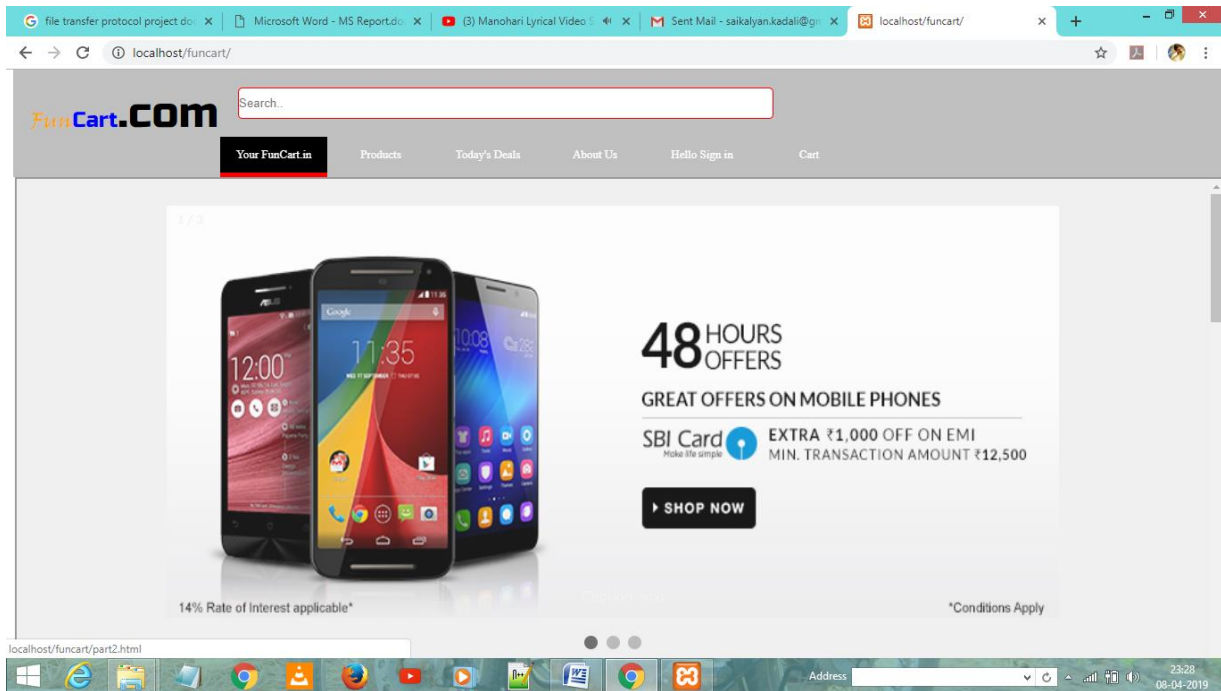
```

<input      type="text"
<input      type="text"
<input      type="text"
<input      type="text"
<input      type="text"
<input      type="text"
<input      type="text"
<input      type="submit"

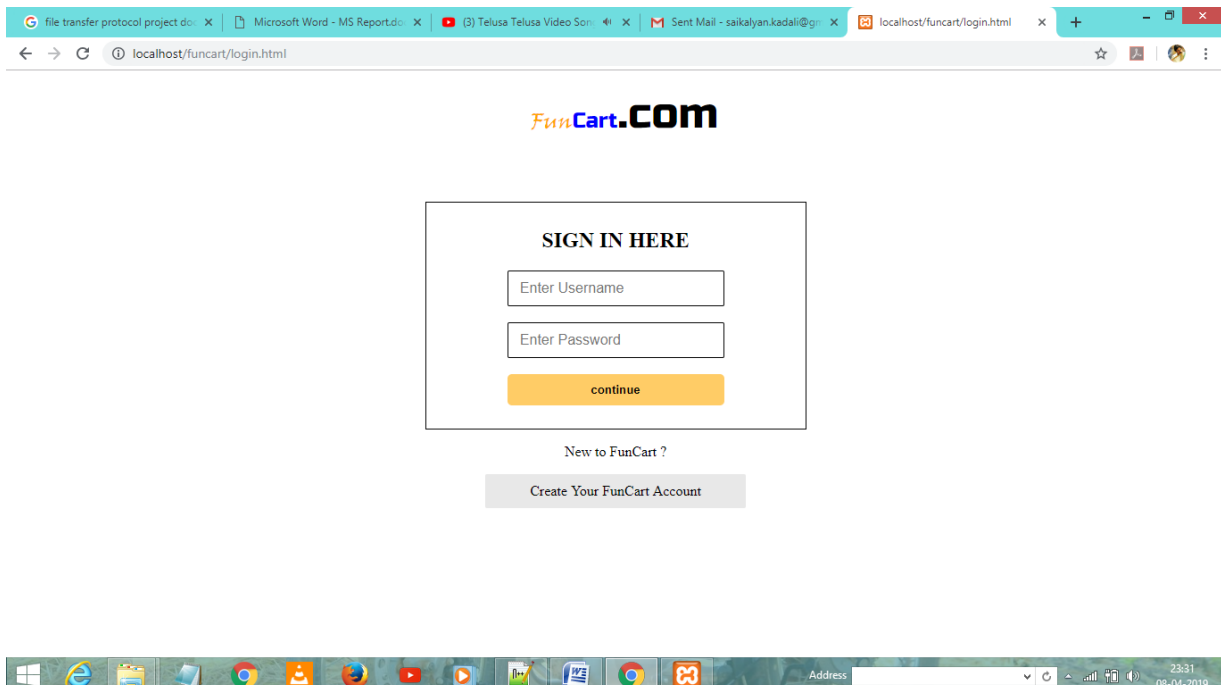
```

## SCREEN SHOTS

### Home Page

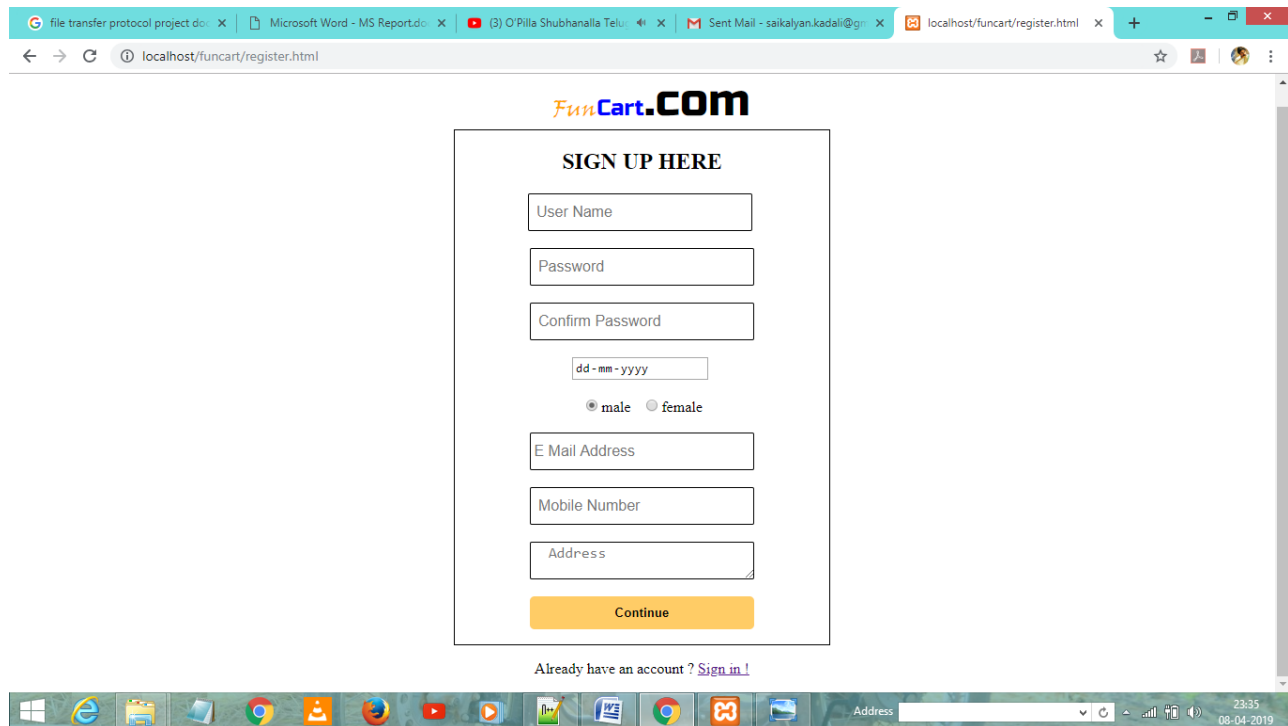


### Sign in Page



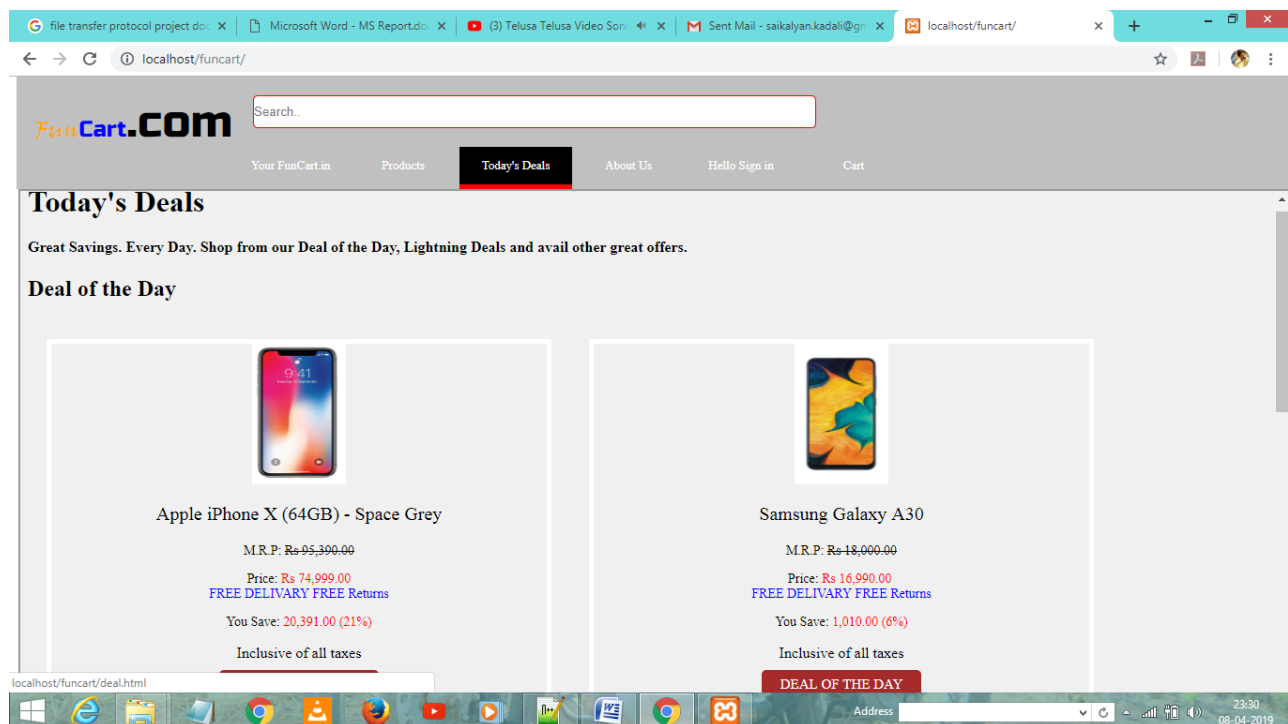


## Signup Page



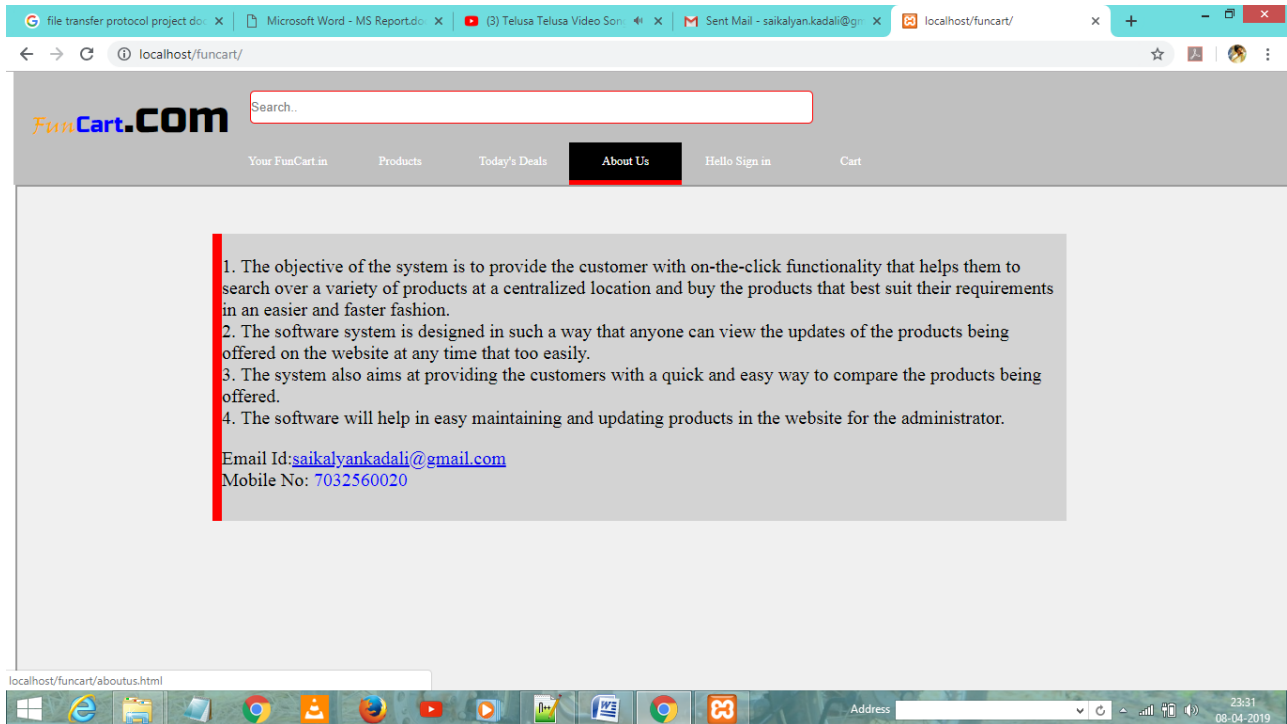
The screenshot shows a web browser window with the URL `localhost/funcart/register.html`. The page features the FunCart.com logo at the top. Below the logo is a "SIGN UP HERE" section with a form containing the following fields: "User Name", "Password", "Confirm Password", a date picker (dd-mm-yyyy), radio buttons for "male" and "female", "E Mail Address", "Mobile Number", and "Address". A yellow "Continue" button is at the bottom of the form. Below the form, there is a link: "Already have an account ? [Sign in !](#)". The browser's taskbar at the bottom shows various application icons and the system clock indicating 23:35 on 08-04-2019.

## Today's Deals

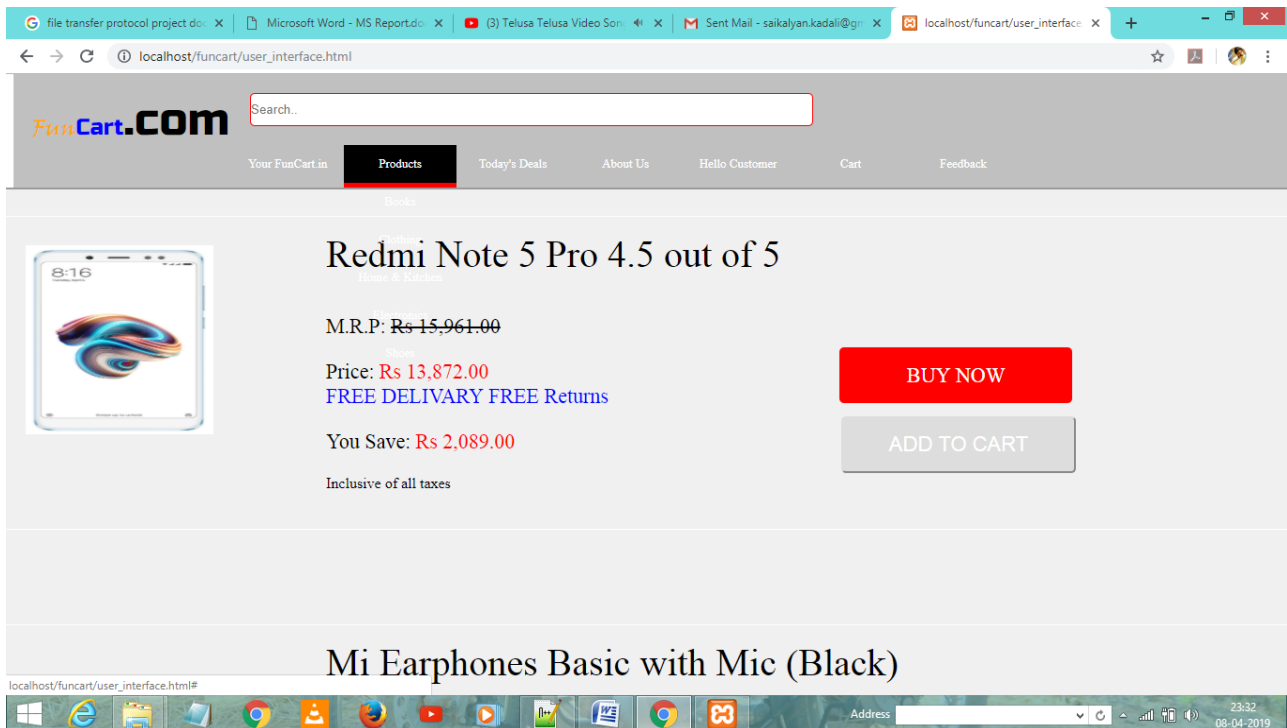


The screenshot displays the "Today's Deals" section of the FunCart.com website. The header includes the FunCart.com logo, a search bar, and navigation links: "Your FunCart.in", "Products", "Today's Deals" (highlighted), "About Us", "Hello Sign in", and "Cart". Below the header, the "Today's Deals" section is introduced with the text: "Great Savings. Every Day. Shop from our Deal of the Day, Lightning Deals and avail other great offers." The "Deal of the Day" section features two product cards. The first card is for an "Apple iPhone X (64GB) - Space Grey" with an M.R.P. of ~~Rs-95,399.00~~, a current price of **Rs 74,999.00**, and a savings of **20,391.00 (21%)**. The second card is for a "Samsung Galaxy A30" with an M.R.P. of ~~Rs-18,000.00~~, a current price of **Rs 16,990.00**, and a savings of **1,010.00 (6%)**. Both cards mention "FREE DELIVERY FREE Returns" and "Inclusive of all taxes". A red banner at the bottom of the Samsung card reads "DEAL OF THE DAY". The browser's taskbar at the bottom shows the system clock indicating 23:30 on 08-04-2019.

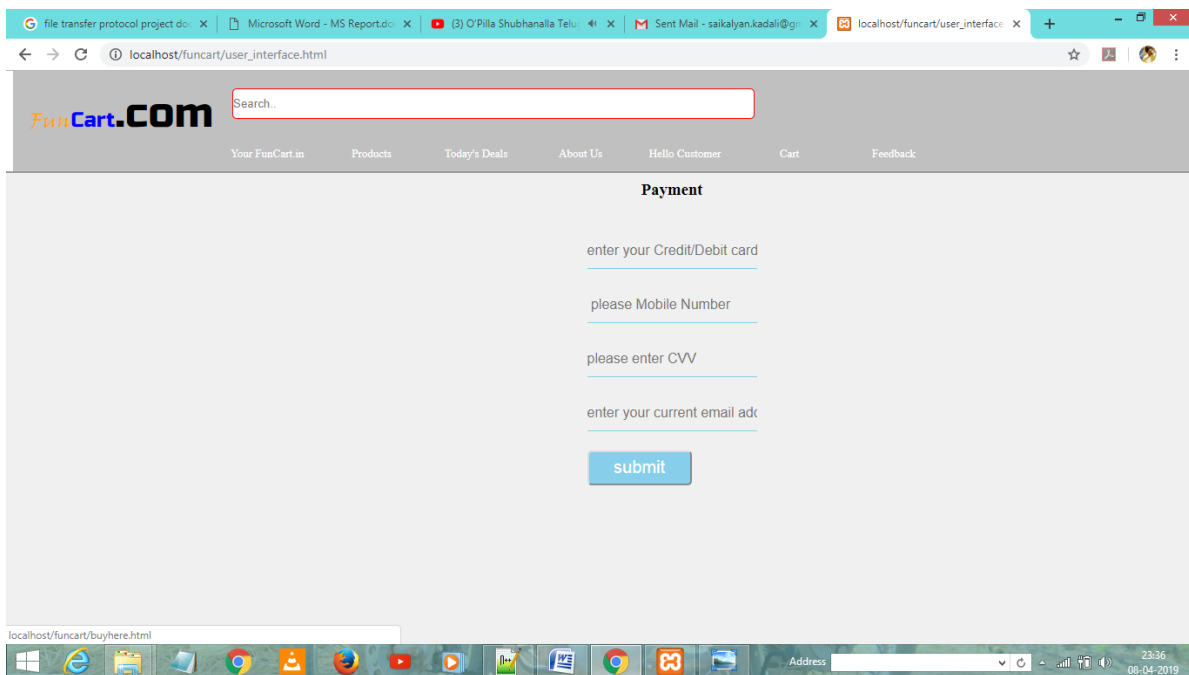
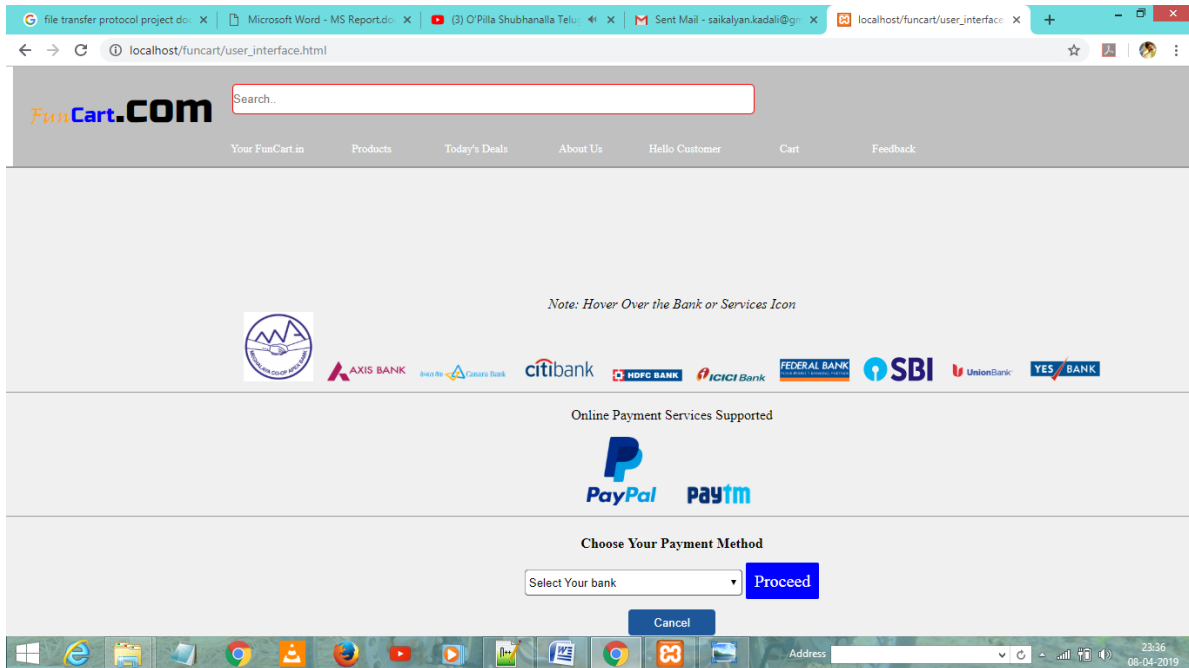
## About us Page



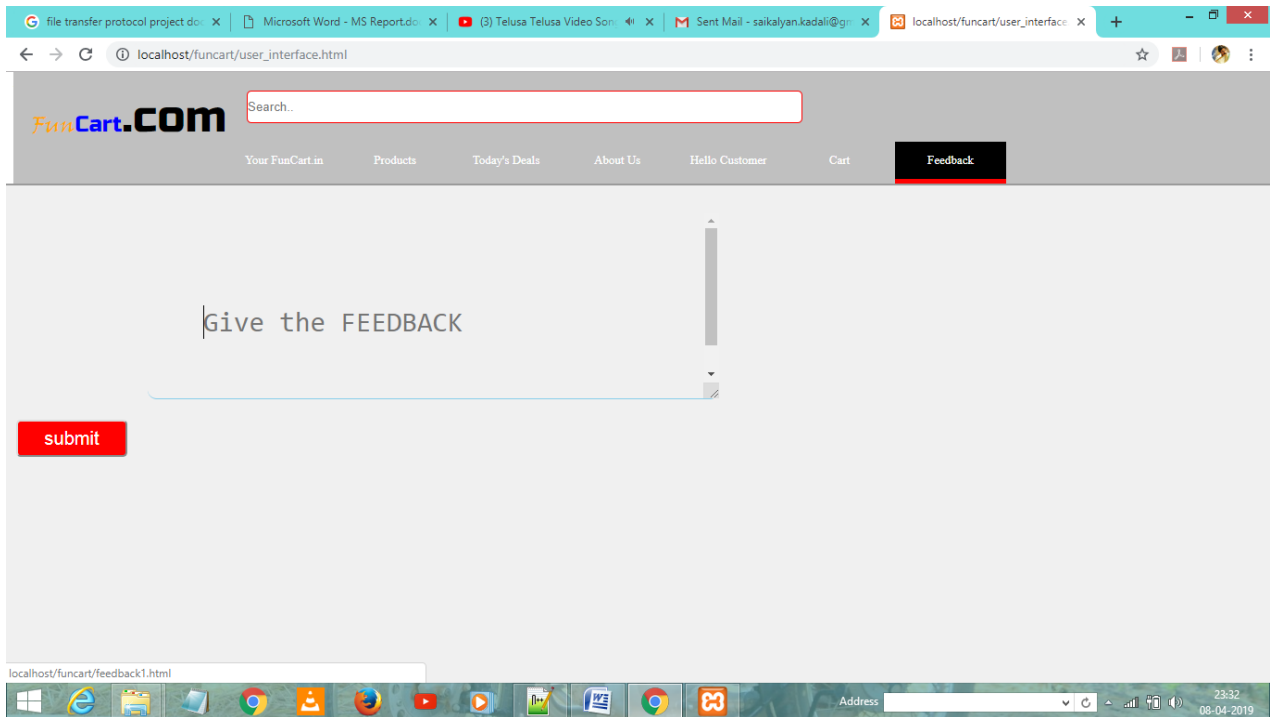
## Products Page



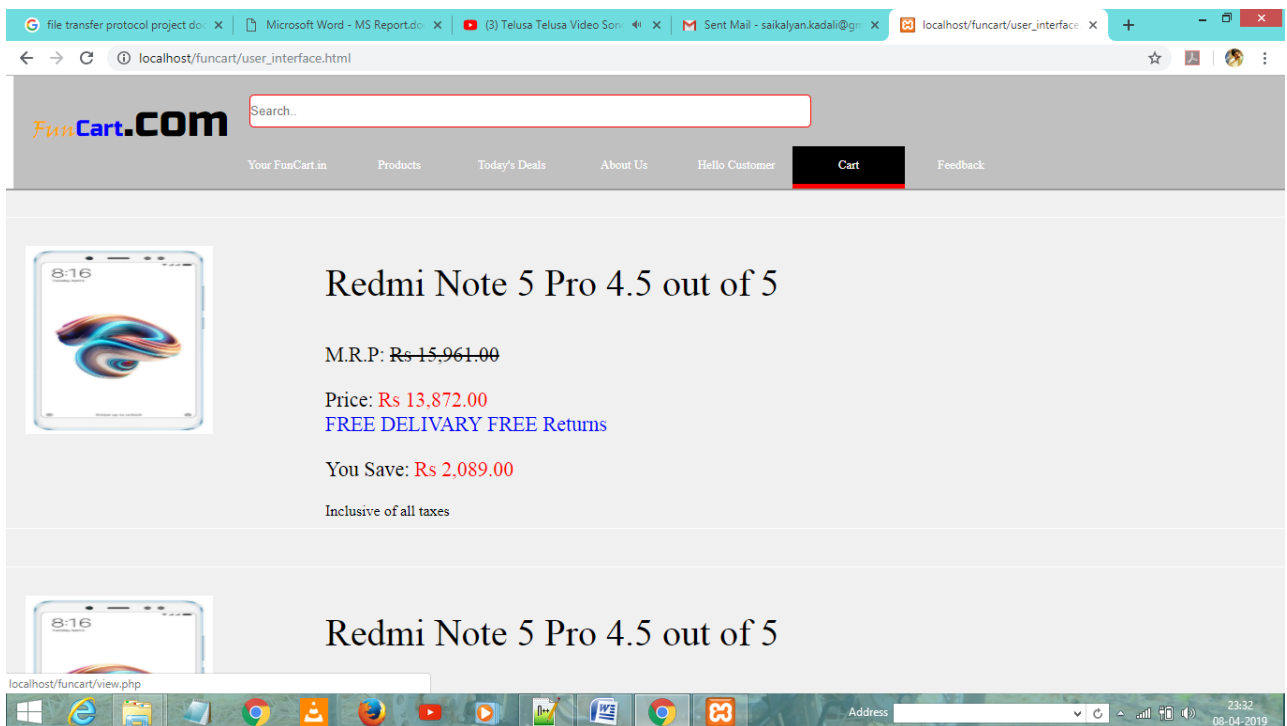
## Payment Page



## Feedback Page



## Cart Page



## Customer Accounts Page

localhost/funcart/admin.php

FunCart.com Search..

Your FunCart.in **CUSTOMER ACCOUNTS** CUSTOMER FEEDBACKS CUSTOMER BOUGHT ITEMS LOGOUT

Username	DOB	Gender	Email	Phone no	Address	Delete
kalyan	2019-04-11	male	saikalyankadali@gmail.com	7093642789	bvrm	<a href="#">delete</a>
lavanya	2019-03-07	male	1234@gmail.com	7093642734	Flat no:404, S.L.V Towers near G.R.K Ho	<a href="#">delete</a>
reddy	2019-04-11	male	reddy@gmail.com	9874632141	vskp	<a href="#">delete</a>

localhost/funcart/viewreg.php

Address 23:33 08-04-2019

## Customer Bought Items Page

localhost/funcart/admin.php

FunCart.com Search..

Your FunCart.in CUSTOMER ACCOUNTS CUSTOMER FEEDBACKS **CUSTOMER BOUGHT ITEMS** LOGOUT

Credit	Mobile No	OTP	Email	Address	Delete
29852869872	7093642734	233	geethasri678@gmail.com		<a href="#">delete</a>
69874469763	07093642734	120132	1234@gmail.com		<a href="#">delete</a>

localhost/funcart/viewbuy.php

Address 23:33 08-04-2019

## **7. TESTING**

### **7.1 TEST PLAN**

Testing is a process, which reveals errors in the program. It is the major quality measure employed during software development. During software development. During testing, the program is executed with a set of test cases and the output of the program for the test cases is evaluated to determine if the program is performing as it is expected to perform.

### **7.2 UNIT TESTING**

Unit Testing is done on individual modules as they are completed and become executable. It is confined only to the designer's requirements

### **7.3 INTEGRATION TESTING**

Integration testing is the phase in software testing in which individual software modules are combined and tested as a group. Integration testing is conducted to evaluate the compliance of a system or component with specified functional requirements. It occurs after unit testing and before validation testing.

### **7.4 VALIDATION TESTING**

The process of evaluating software during the development process or at the end of the development process to determine whether it satisfies specified business **requirements**. Validation Testing ensures that the product actually meets the client's needs.

## **8. CONCLUSION**

The package was designed in such a way that future modifications can be done easily. The following conclusions can be deduced from the development of the project.

Online Shopping System provides with the capability to shop for one's desired products from anywhere in the world in no time thus reducing time, cost and effort factors.

1. It provides a friendly graphical user interface which proves to be more beneficial and productive as compared to the traditional shopping system.
2. It gives appropriate access to the authorized users depending on their permissions.
3. Updating of information becomes so easier.
4. System security, data security and reliability are the striking features.
5. The System has adequate scope for modification in future if it is necessary.

## 9. BIBLIOGRAPHY

- **W3SCHOOLS ONLINE WEB TUTORIALS**

<https://www.w3schools.com>

- **JAVASCRIPT TUTORIAL**

<https://www.w3schools.com/js/default.asp>

- **CSS TUTORIAL**

<https://www.w3schools.com/css/default.asp>

### BOOKS:

- **Learning Web Design**

Book by Jennifer Niederst Robbins

- **The Definitive Guide to HTML5**

Book by Adam Freeman

- **Head First HTML5 Programming: Building Web Apps with JavaScript**

Book by Elisabeth Freeman and Eric Freeman