

E-Commerce Website

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E-Commerce Website

Submitted in fulfillment of the requirements

For the degree of

Bachelor of Technology in Information Technology

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CERTIFICATE

This is to certify that the Seminar entitled “[**E-commerce website**]” submitted by [**JAYDEEP RAM(15BIT045), VAIBHAV GELOT(15BIT010)**], towards the partial fulfillment of the requirements for the degree of Bachelor of Technology in Information Technology of Nirma University is the record of work carried out by him under my supervision and guidance. In my opinion, the submitted work has reached a level required for being accepted for examination.

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E-Commerce Website

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ABSTRACT

The project is implemented using Hypertext markup language, PHP and CSS. We have used HTML, CSS, and BOOTSTRAP to design the layout of the webpage. The server is established using XAMPP and then using SQL query language is used for accessing the database. The user need to login is already registered otherwise he need to sign up.

There is an add to cart option were he could add the product and proceed to the checkout and he could also give the rating to the previously bought product. He need to give the address at the time of the checkout to deliver. At last the details page is formed with all the details required for the product like the price, quantity, and the address. In the product page there is a recommendation system were the user is recommended the product.

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Chapter 1

Introduction

1.1 About project

In India, running time of digital revolution. The public are use more and more digital services. The online shopping is most growing technology in India. Everyone want to save her/his money and time and both features offer by the online shopping E-commerce web portal. There are some big companies in this area like amazon, filpkart, snapdeal etc.

The online shopping is the E-commerce web portal. We have created the web interfaces by which user can purchase the product. Here, customer need to login into web site and registration for customer is free of cost. The website gives freedoms to customer to select any product and customer can add the product into cart. Customer can confirm order of product by doing the payment. The customer would give rating on past ordered product and the system recommend some of product for customer.

In this project, Xampp used for creating the local server and PhpMyAdmin used for store the record into database and we used MYSQL query language. We have used bootstrap in project that offer the responsive layout for the website so user can open website in any screen size and website open properly. We have implemented recommendation system to recommend the product to customer on basis of rating.

1.2 Future improvement

Several future improvements can be done on this project. Design perspective there would be lot of improvement that can be done. To improve the functionalities of the recommendation system, we required more information about the customer. We can also build the recommendation such that system suggest the product based on recent search and also suggest product based on user location, areas, country etc.

Working smoothness of web portal improved with time. We can also consider building the E-commerce website for iOS system.

Chapter 2

Tools

2.1 Tools used for the project

Any of the following could be used for hosting the webpage on a local server:

- 1) XAMPP
- 2) WAMP SERVER
- 3) MAMP

And many more.

Among them most commonly used is xampp. Detailed information regarding the xampp:

It contains the Apache HTTP server, MariaDB database, and a translator if they programs are written in PHP and Perl. It is an open source cross-stage web server arrangement stack bundle created by Apache Friends.

XAMPP is a short form for the Cross-Stage (X), Apache (A), Maria DB (M), PHP (P) and Perl (P).

It is lightweight which helps the testers and designers and makes their work really easy. The webserver can be established using Server application, database, scripting dialect.

XAMPP is additionally cross-stage, which implies it works similarly well on Linux, Macintosh and Windows. Since most genuine web server organizations utilize an indistinguishable segment from XAMPP, it makes progressing from a neighborhood test server to a live server to a great degree simple too.

XAMPP is also a cross-stage which means that it works on Linux, Mac and Windows in a similar way. As most web server's organizations a segment which is indistinguishable from the XAMPP, thus It make easy for changing from the test server to the live server.

X - as an ideographic letter alluding to cross-platform

A - Apache[6] or its extended shape, Apache HTTP Server

M - MariaDB

P - PHP

P – Perl

Requirements: -

We just need to download the compressed file or tar or exe and to be executed, and the different segment from it form the webserver.

Highlights: -

XAMPP is regularly updated with the latest updates of the various components like the PHP, Perl, Maria DB and Apache. There are also various modules included into it like OpenSSL, Phpmyadmin, MediaWiki, Joomla, WordPress and many more. it is portable like we can have number of xampp in a pc and also we can copy them on other pc. it is available in two form either full version or the standard form.

Use: -

The main idea behind XAMPP was to provide the creators of the website, software engineers with the flexibility so that they can create, experiment and test various things without entering the web. To implement this, they have tried to stop the vital security highlights by default. They provide the password protection so that important webpages could be password protected. It can also server the world wide web.

The database creation and manipulating the data the data could be done in SQLite and Maria DB.

2.2 Hardware requirement

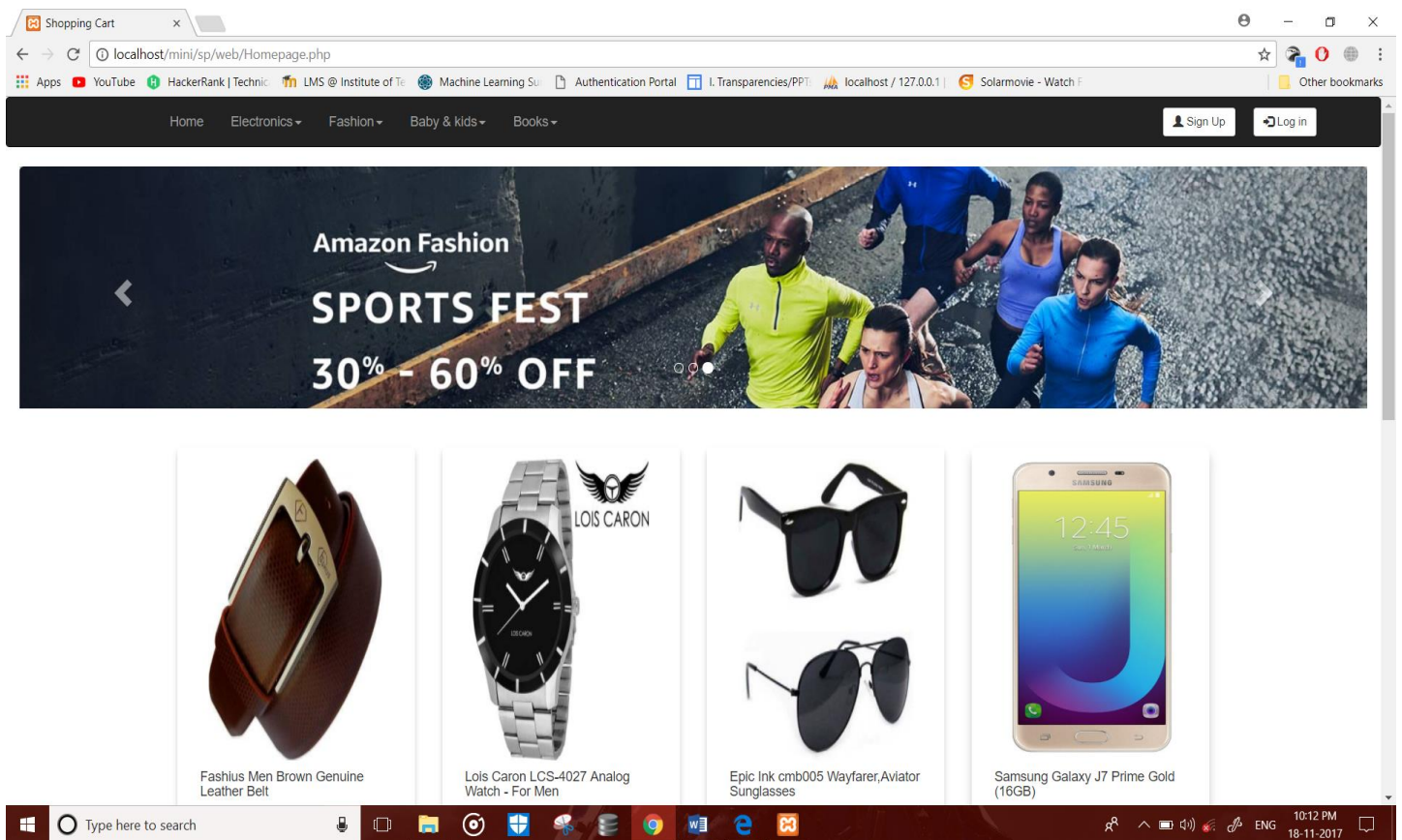
The system on which we are going to use the software should contain 64 MB RAM or more and 350 MB free space on the hard disk. It supports the various windows versions like 2003, XP, VISTA, Windows 7, Windows 10.

Chapter 3

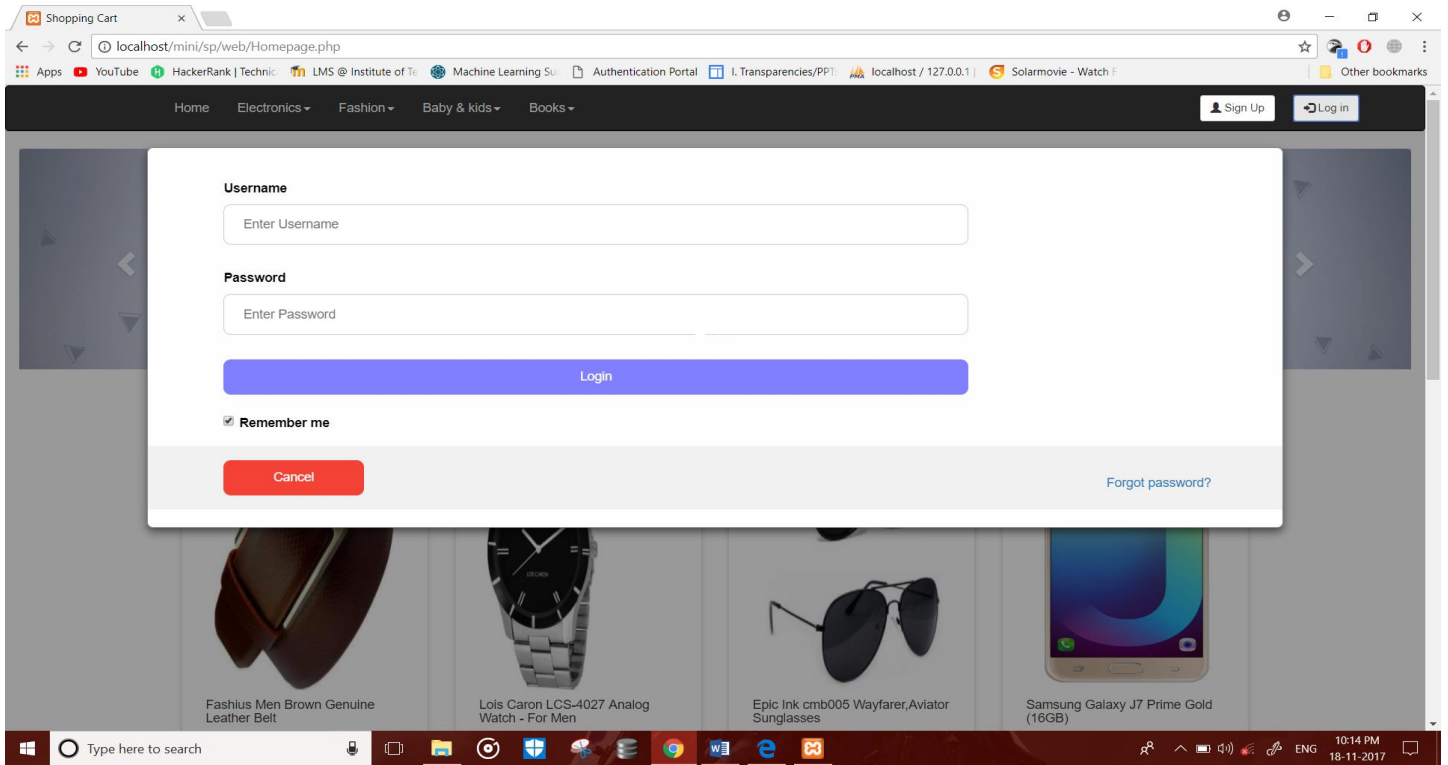
Flow of Website

Here, we have discussed the flow of portal, how portal look and explained by the screen short of the portal.
Basic layout: -

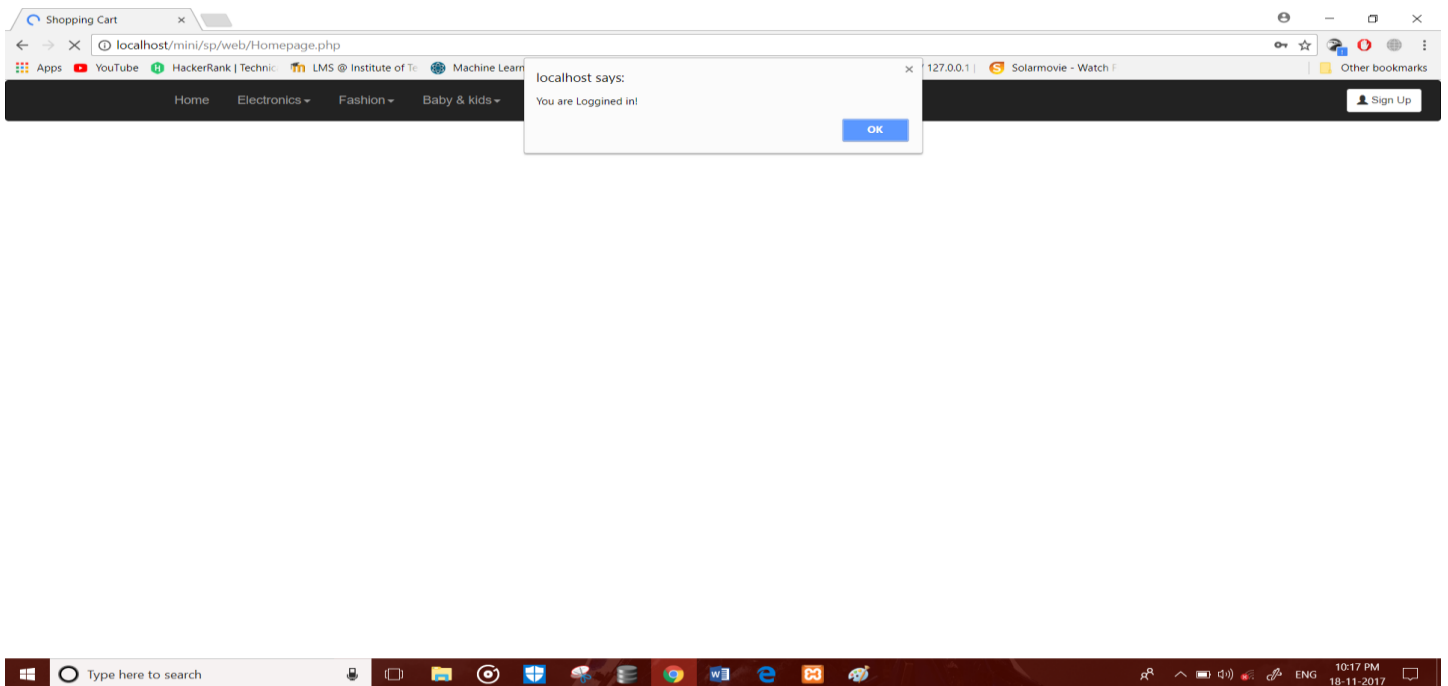
- Below screenshot is the basic interface of home page of the website. Here, menu bar show the various category name of product. carousal display the offer on the product and card that display the various product with two option 1) buy button 2) add to cart button.



- Here, we create pop-up page of login. Pre-condition of login is user should registered first. If user provided username and password is match then user successful logged in.



If username and password not match then system show notification of username and password is incorrect otherwise show message of login successful.



➤ We have created sign-up pop-up page for the registration of the customer. Then customer can login into portal.

WAMP SERVER Homepag Shopping Cart

localhost/sp/web/Homepage.php

Apps Authentication Ports (a,b) Trees Free Video Lectures NPTEL GeeksforGeeks | A c HackerRank | Techni SATISH KASHYAP: Le Introduction to the Tutorials - Javatpoint

Log in

Name

Enter name

Username

Enter User Name

Password

Enter Password

Confirm Password

Enter Confirm Password

SignUp

☒ Remember me

Cancel

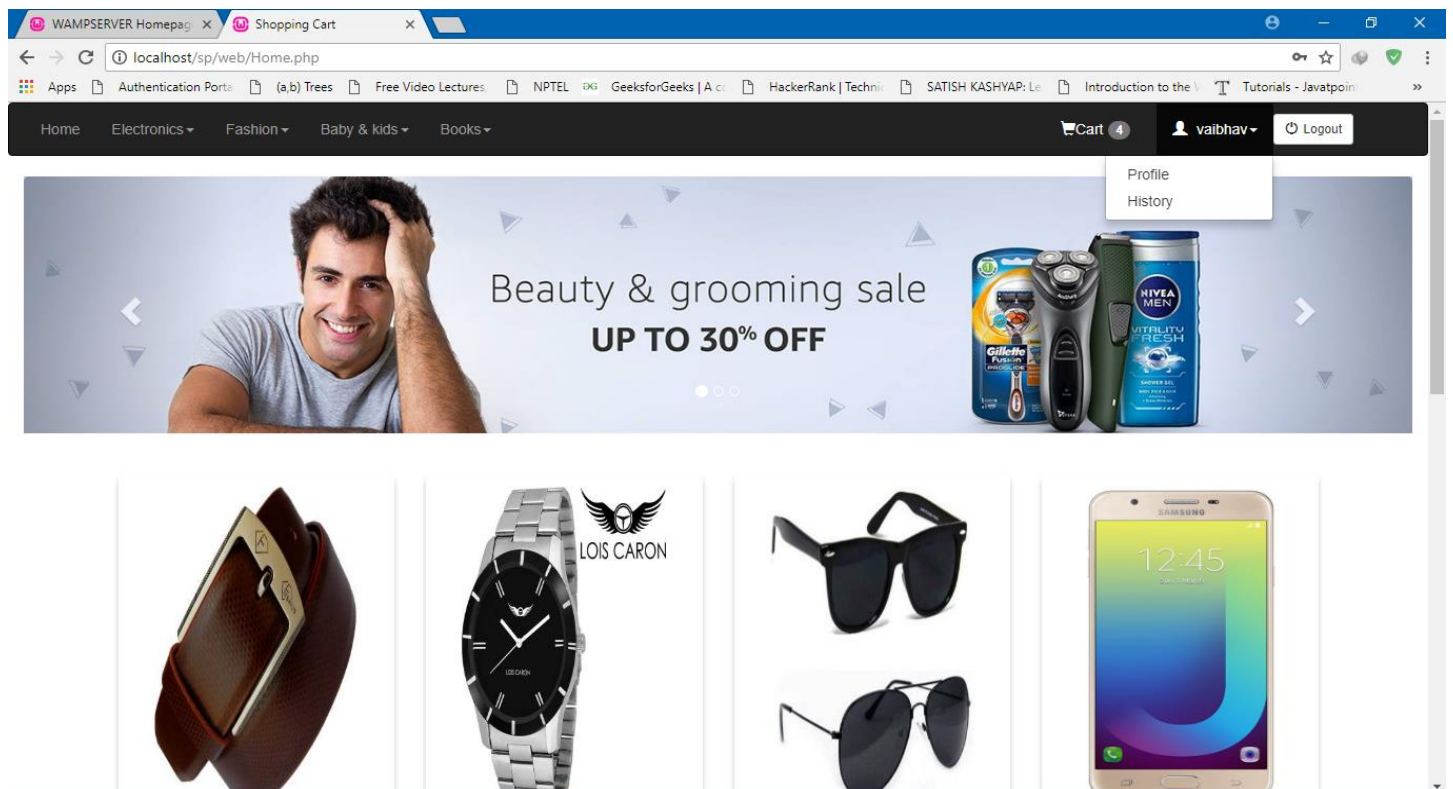
[Forgot password?](#)

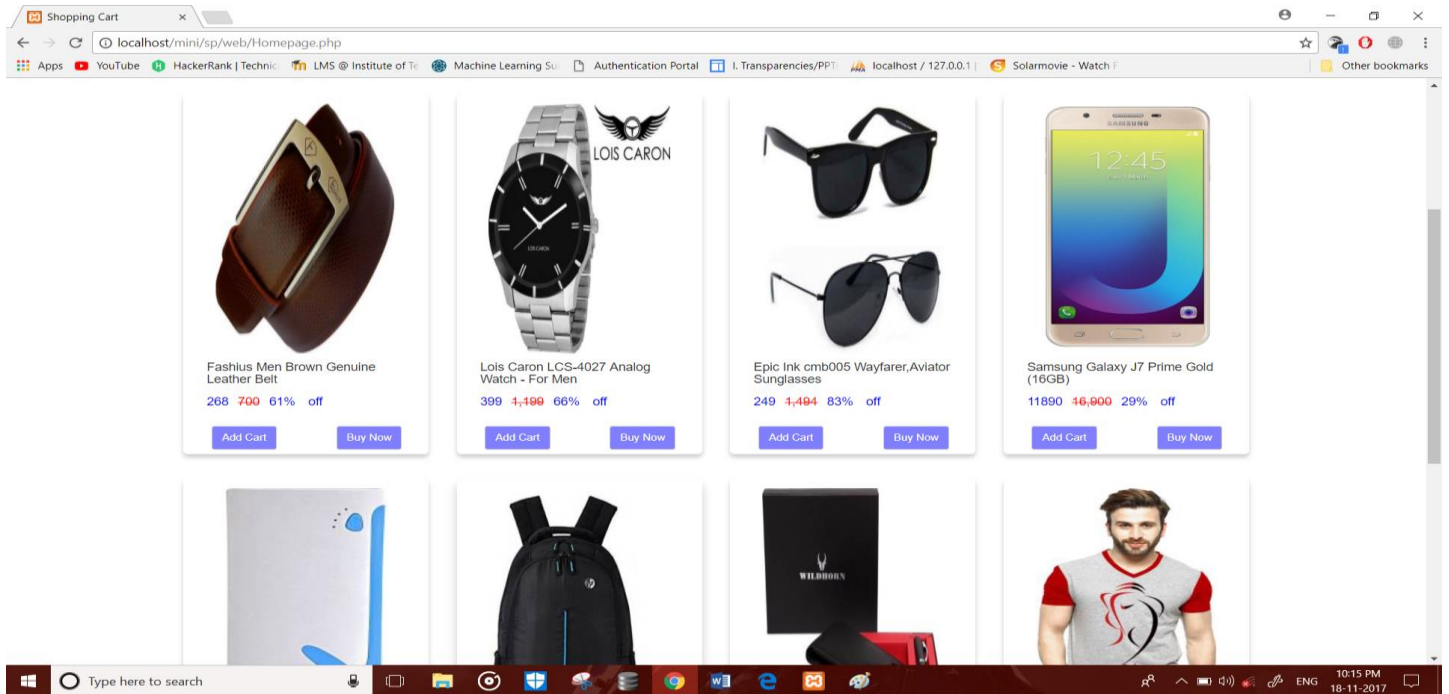
➤ After successful login, on menu bar at right side corner display the cart and username of customer

By click on cart user redirect on cart page and clicking on the username, the 2-option display 1) profile 2) history. The product shown in a form of cards.

1) Profile : it display the detail of customer account.

2) History: it is contain the past ordered detail of product where customer can give the rating.



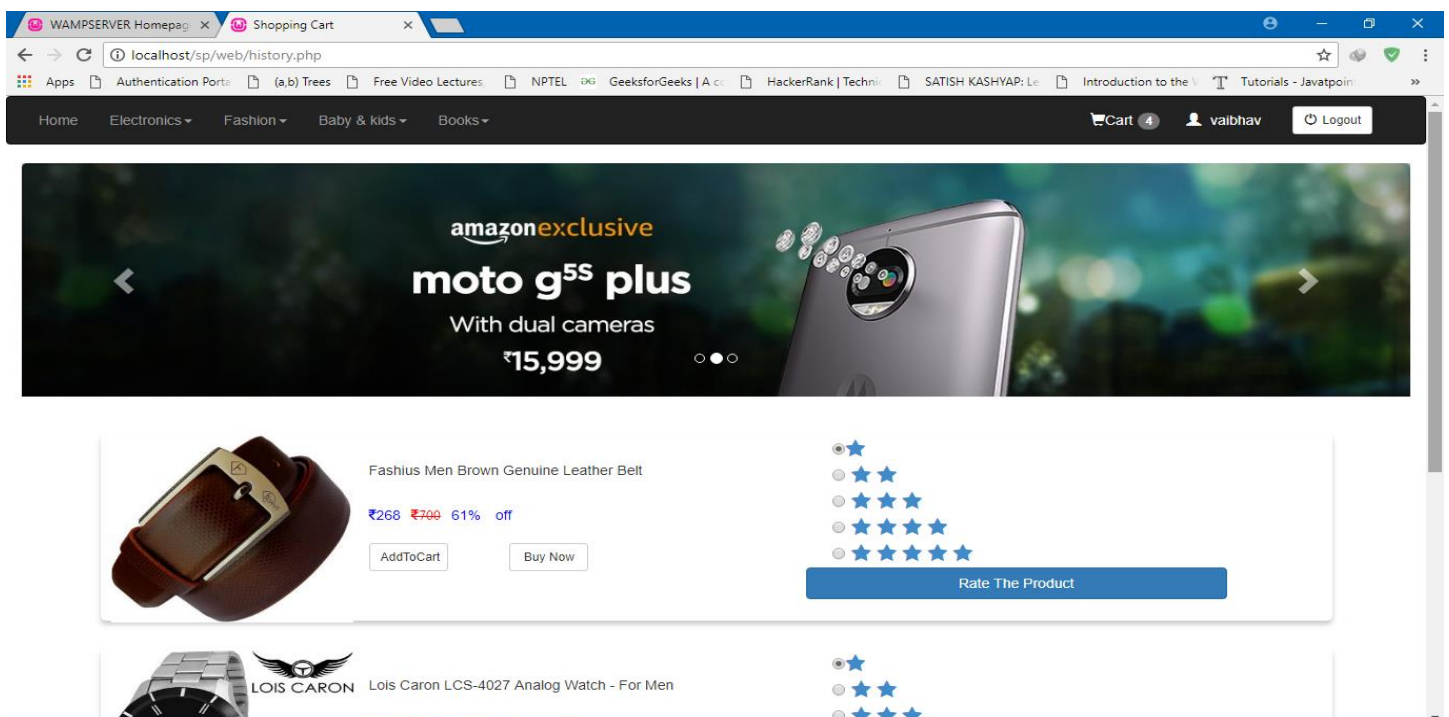


In card, there are two button.

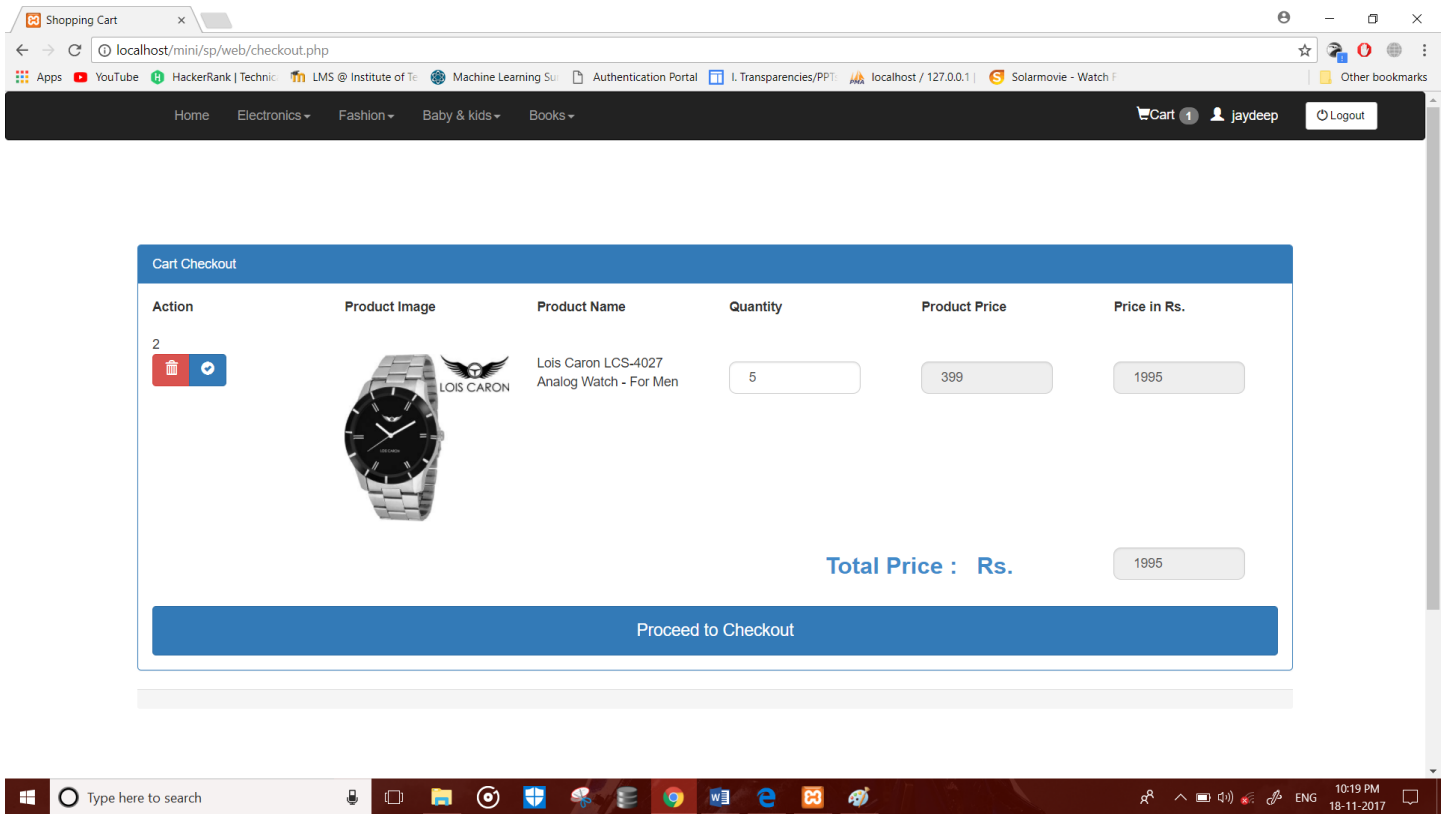
- 1) Add cart: the user click on this button to add the product into his/her cart.
- 2) Buy Now: if user click on this page the new page will be open of the selected product with in-depth detail of the product and user can directly place order or it can also add product into cart.

There is the symbol with the cart label that display the number of the item in the cart.

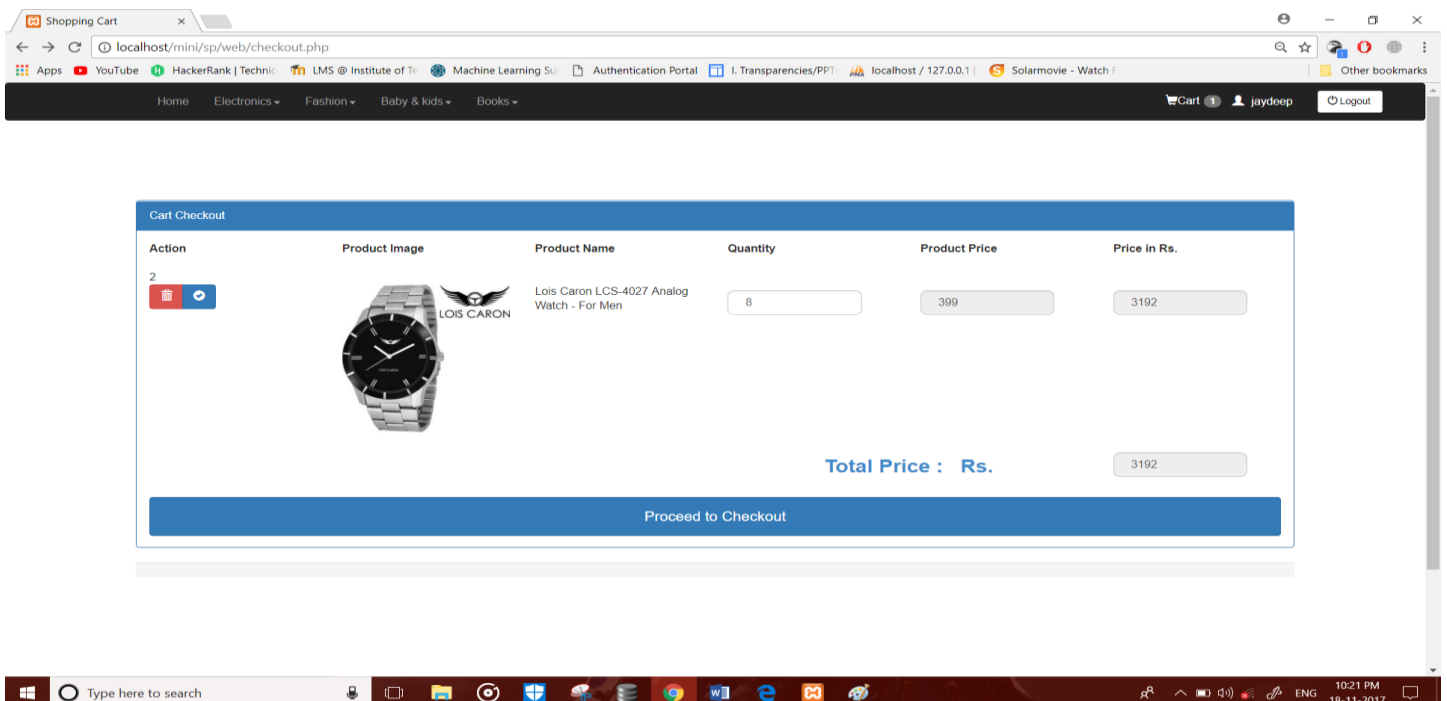
History page:



➤ When customer click on the cart label the customer redirect on the different page. It shown as below:



Here, the user can see the product and quantity. the red button for delete product from the cart and the customer can change the quantity of the product and it will update when blue button clicked by the customer and price of product also updated. The updated quantity of product example shown as below:



➤ When user click on the “proceed to checkout” button above page the customer redirect on different page.

In this page, the customer are able to choose payment option and address to the delivery of product.

The screenshot shows a web browser window with the URL `localhost/mini/sp/web/checkoutpay.php`. The page is titled "Shopping Cart" and displays the following sections:

- Cart Sub Total:** A table showing the total price and total items.

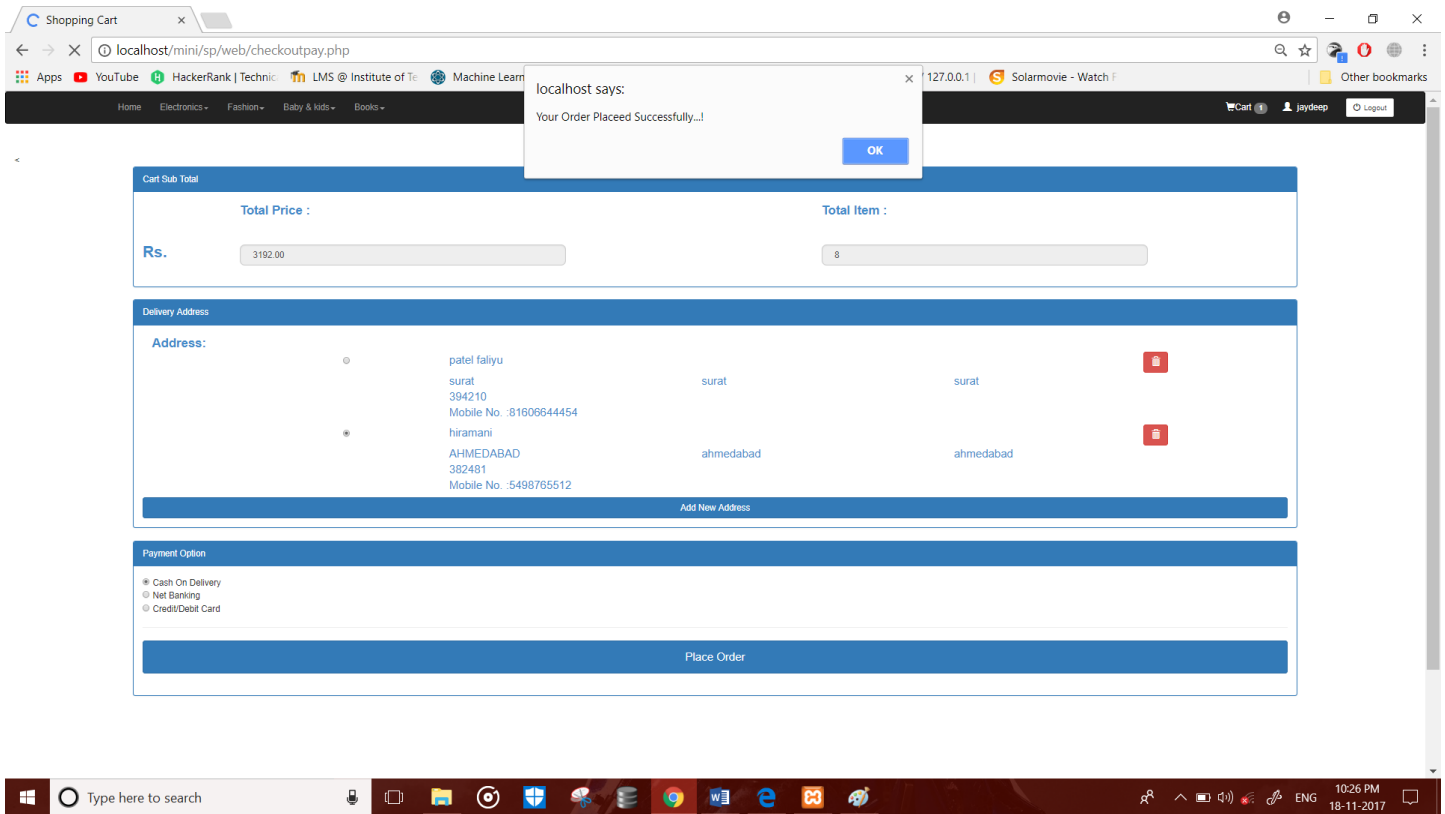
Total Price :	Total Item :
Rs. 3192.00	8
- Delivery Address:** A section with two existing addresses and an "Add New Address" button.
 - Address 1: patel faliyu, surat, surat, 394210, Mobile No. :81606644454
 - Address 2: hiramani, AHMEDABAD, ahmedabad, 382481, Mobile No. :5498765512
- Payment Option:** A section with three radio buttons: ☒ Cash On Delivery, ☐ Net Banking, and ☐ Credit/Debit Card.
- Place Order:** A large blue button at the bottom.

Customer need to add the address for the delivery of the product. The address page open while customer click on “add new address” button of checkoutpay page.

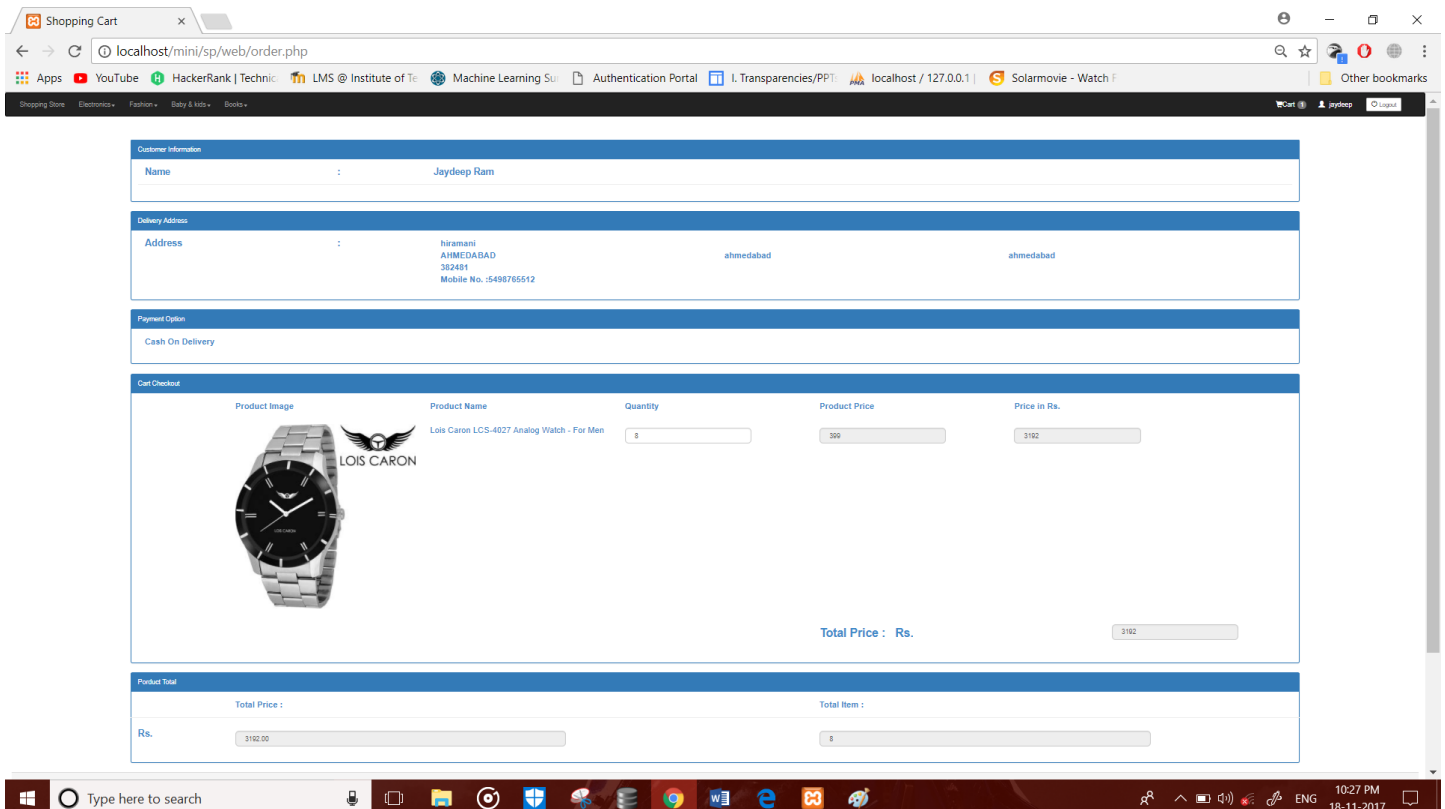
The screenshot shows a modal form titled "5 Enter New Address" with the following fields and buttons:

- Street Name :** Enter Street Name
- City Name :** Enter City Name
- Distict :** Enter Distict Name (Note: The label is misspelled as "Distict")
- Taluka :** Enter Confirm Password (Note: The label is misspelled as "Taluka")
- Pin Code No.:** Enter Postal Code
- Mobile No. :** Enter Mobile No.
- Buttons:** "Add Address" (blue) and "Cancel" (red).

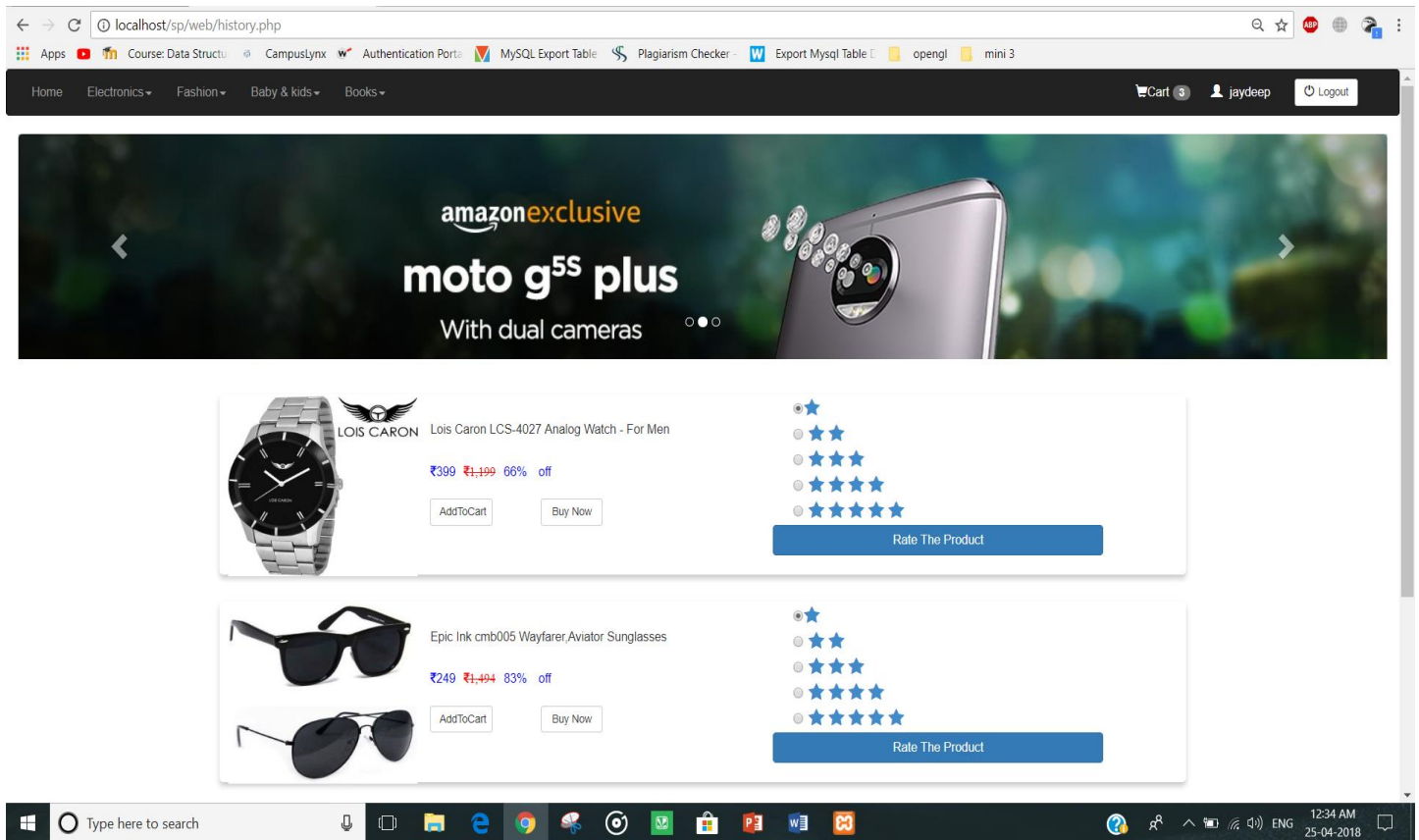
- If customer click on the “place order” button the notification will be display that “YOUR ORDER HAS BEEN SUCCESSFULLY PLACED”.



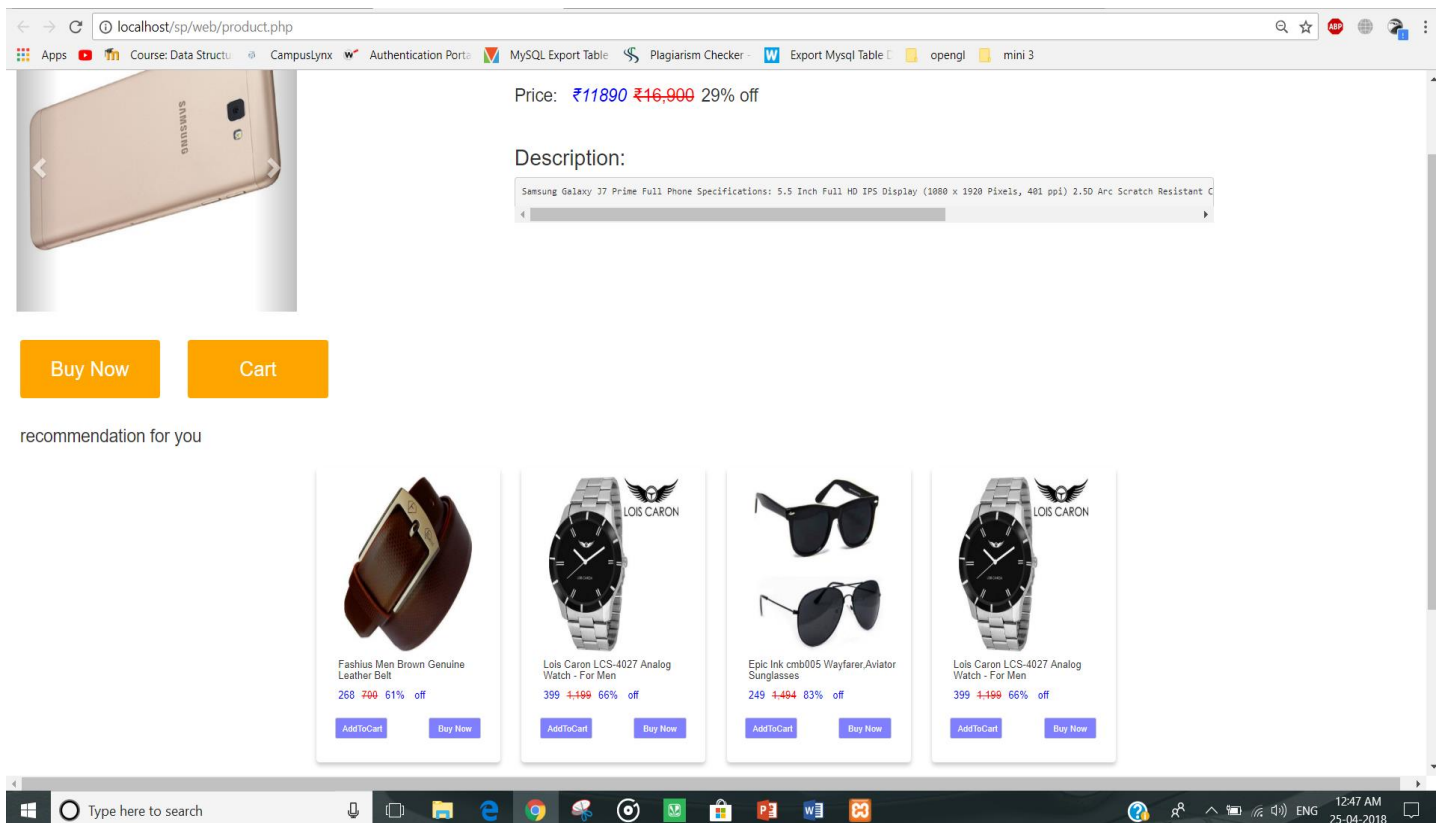
- After clicking on “place order” button user will redirect on the summary page. The summary page contains customer detail, the ordered Products, delivery address, selected payment option.



- Here the user can give the rating to the products that he bought previously based on his/her experience and that would be updated in the database.



- The product is recommended in the following way.



Chapter 4

Working of Website and Database

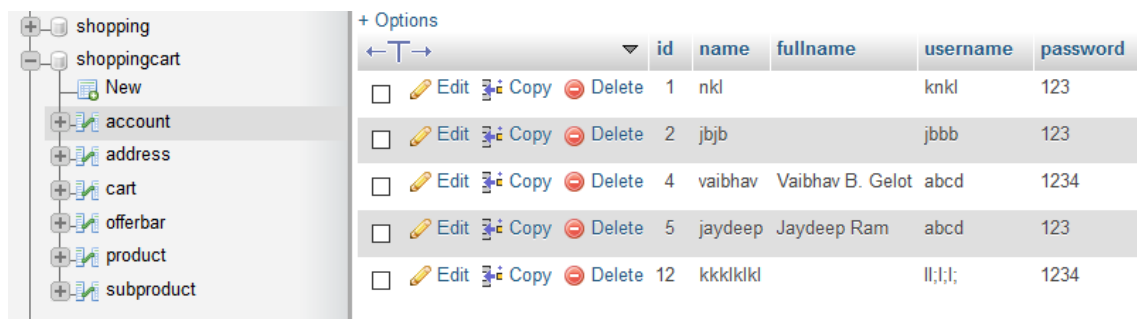
4.1 Database in Website

Name of Database: Shopping cart

Database tables:

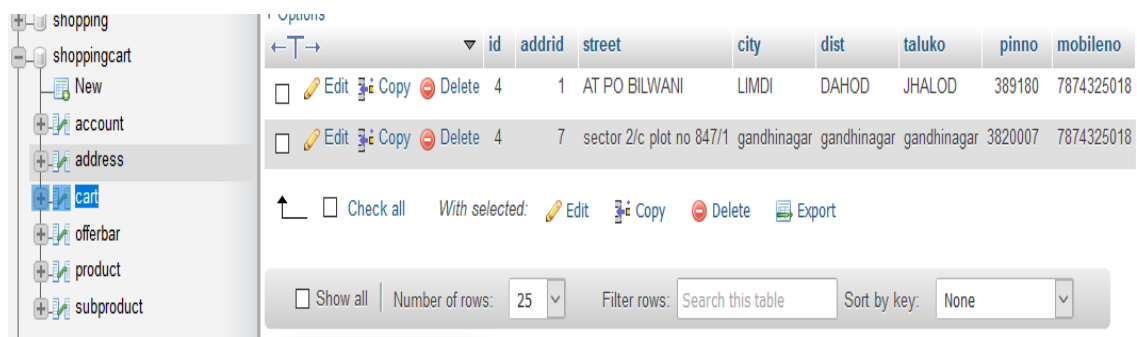
1. Account table
2. Address table
3. Cart table
4. Offer bar table
5. Product table
6. Sub product table
7. History table

1. Account Table: this table contains details of customer account. This table detail useful for the customer authentication. This table contains customer's id, name, fullname, username and password.



	id	name	fullname	username	password
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	nkl		knkl	123
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	jbjb		jbbs	123
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	vaibhav	Vaibhav B. Gelot	abcd	1234
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	jaydeep	Jaydeep Ram	abcd	123
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	12	kkklklkl		ll;ll;	1234

2. Address Table: this table contain data of customer addresses. This table data used for deliver the ordered product.

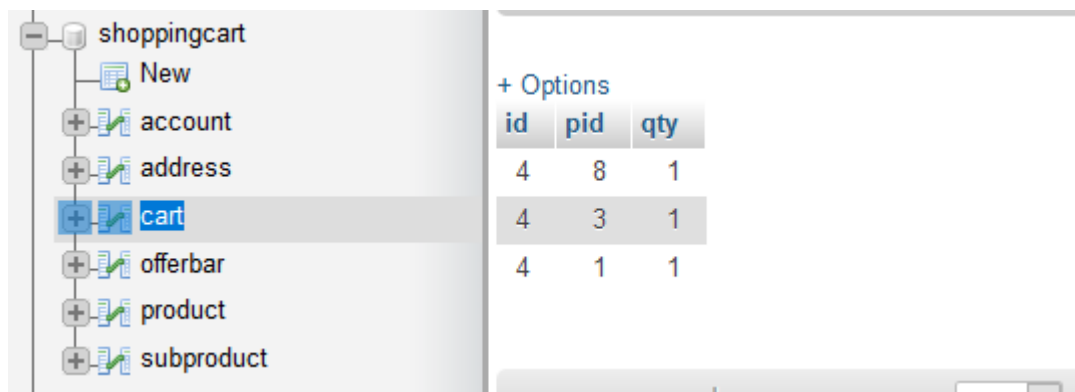


	id	addrid	street	city	dist	taluko	pinno	mobileno
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	1	AT PO BILWANI	LIMDI	DAHOD	JHALOD	389180	7874325018
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	7	sector 2/c plot no 847/1	gandhinagar	gandhinagar	gandhinagar	3820007	7874325018

☐ Check all With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

☐ Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

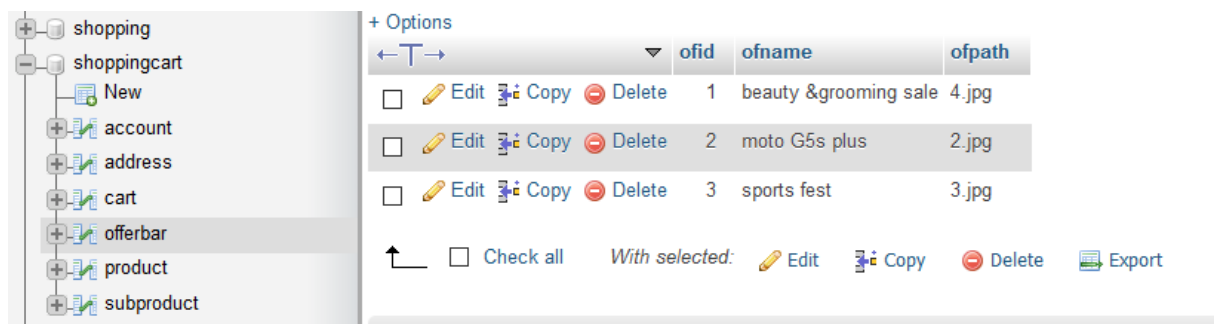
3. Cart Table: this table contain the data of products, which added by the customer into the cart to order.



The screenshot shows a database management interface. On the left, a tree view displays the 'shoppingcart' table structure with fields: New, account, address, cart (highlighted), offerbar, product, and subproduct. On the right, a table view shows the data for the 'cart' field. The table has columns: id, pid, and qty. The data rows are:

id	pid	qty
4	8	1
4	3	1
4	1	1

4. Offer bar table: this table contain date of offer product to attract the users.



The screenshot shows a database management interface. On the left, a tree view displays the 'shopping' table structure with fields: New, account, address, cart, offerbar (highlighted), product, and subproduct. On the right, a table view shows the data for the 'offerbar' field. The table has columns: ofid, ofname, and ofpath. The data rows are:

ofid	ofname	ofpath
1	beauty &grooming sale	4.jpg
2	moto G5s plus	2.jpg
3	sports fest	3.jpg

5. Product table: this table contain the detail of products and products are available to buy for the customer.



The screenshot shows a database management interface. On the left, a tree view displays the 'shopping' table structure with fields: New, account, address, cart, offerbar, product (highlighted), subproduct, sp, sys, and webapp. On the right, a table view shows the data for the 'product' field. The table has columns: pid, pname, ppath, pactulprice, pcurrentprice, pdiscount, and pdescription. The data rows are:

pid	pname	ppath	pactulprice	pcurrentprice	pdiscount	pdescription
1	Fashius Men Brown Genuine Leather Belt	22.jpeg	700	268	61% off	Genuine Leather Belt with Imported specially manuf...
2	Lois Caron LCS-4027 Analog Watch - For Men	11.jpeg	1,199	399	66% off	General Style Code :LCS-4027 Occasion :Casual, P...
3	Epic Ink cmb005 Wayfarer,Aviator Sunglasses	33.jpeg	1,494	249	83% off	MaFs Brings to you must-have, stylish polarised S...
4	Samsung Galaxy J7 Prime Gold (16GB)	44.jpg	16,900	11890	29% off	Samsung Galaxy J7 Prime Full Phone Specifications....
5	Ambrane P-1122 NA 10000 mAh Power Bank	44.jpeg	1,799	779	56% off	
6	HP 15.6 inch Laptop Backpack (Black)	55.jpeg	1,079	450	58% off	
7	WildHorn Men Black Genuine Leather Wallet (8 Card...	66.jpeg	1,299	599	53% off	
8	Tripr Printed Men V-neck Multicolor T-Shirt	88.jpeg	899	399	55% off	

6. Sub product table: this table contain detail different side views of the products, but product must be added into product table.

mysql

performance_schema

shoppingcart

New

account

address

cart

history

offerbar

product

subproduct

sys

test

tutorial

7. History table: this table contain past data of ordered product of customer and customer would give rating to the product

New

account

address

cart

history

offerbar

product

+ Options

← T →

id

pid

rating

☐

Edit

Copy

Delete

4

1

3

☐

Edit

Copy

Delete

4

2

4

☐ Check all

With selected:

Edit

Chapter 5

Summary and Conclusion

We started to build the website from zero and during the making of the website we came across various problems like in the php code or to make the recommendation system and the various problems. From the problems we learnt various things and we also took help from friends for it and they guided as for it. We understood how the websites are made in the real world. From this we came to know about the PHP, CSS, HTML, PYTHON.

We have tried to implement the Machine Learning concept which is to recommend the user the product on the basis of the content he liked and that we have implemented using the python programming language. As we are moving towards modernizing and people are preferring to shop online rather than going to the shop and buying the product. And as the user can open the website in any device having the different aspect ratio so to adjust with it bootstrap is used. In short we understood how the website are planned and designed by various designers and how important is the design of the GUI for our website. How many options are available for making the website and how to encounter the problems thrown at the time of making. How to improve the functionality and to handle the backend programming. And thus we are ready with the website.

Appendix – A List of Useful Websites

- 1) <https://www.w3schools.com/>
- 2) <https://stackoverflow.com/>
- 3) <https://www.tutorialspoint.com/>
- 4) <https://www.apachefriends.org/>
- 5) <https://www.codecademy.com/>
- 6) <https://www.javapoint.com/>
- 7) [https://www.csstutorial.net /](https://www.csstutorial.net/)
- 8) <https://www.sciencedirect.com/science/article/pii/S1110866515000341>
- 9) <https://www.bluepiit.com/blog/classifying-recommender-systems/>