E-Commerce Website

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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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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) WAMPSERVER
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

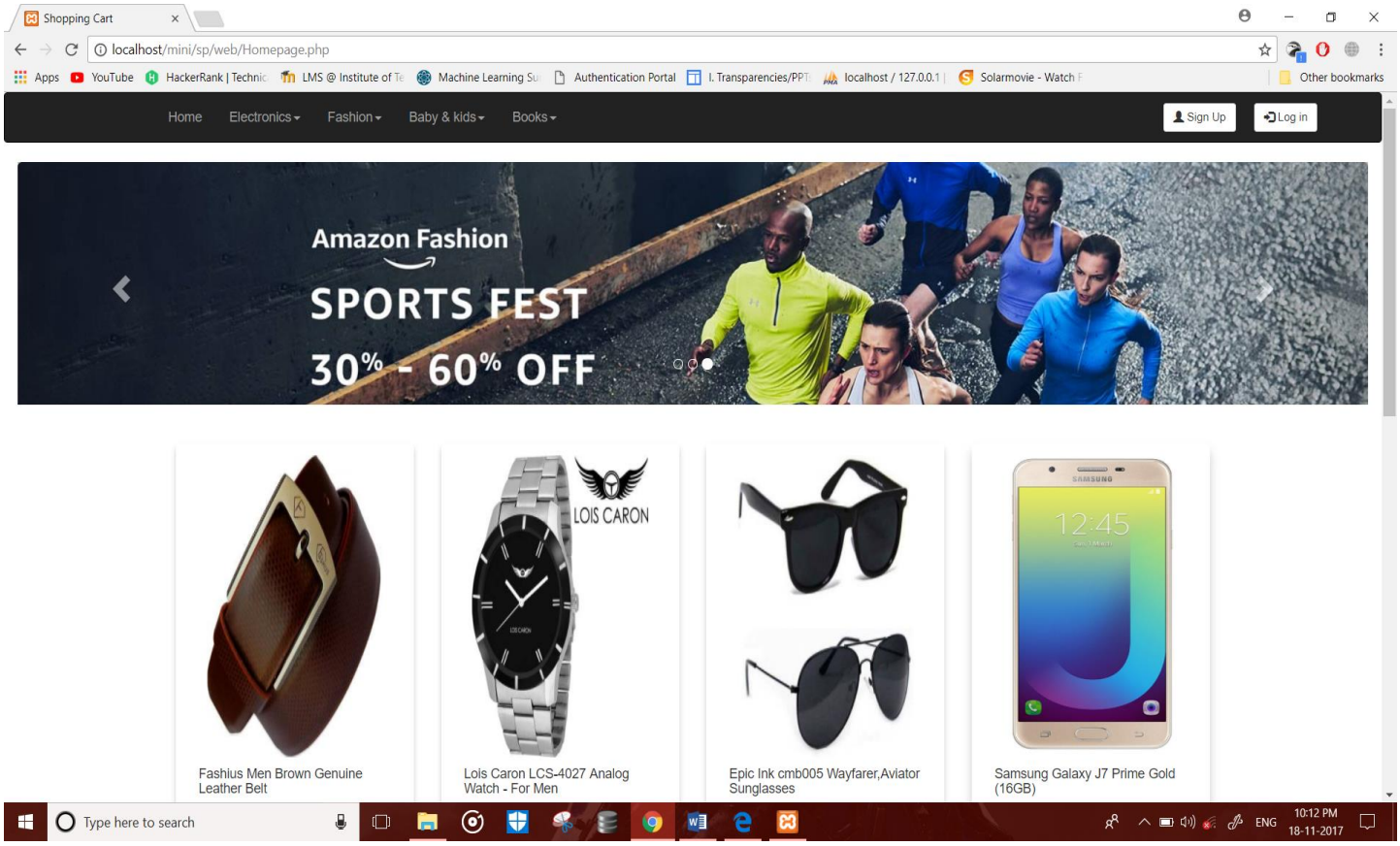
The system on which we are going to use the software should contain 64 MB RAM or more and 350 MB free space on the hard disk. It supports the various windows versions like 2003, XP, VISTA, Windows 7, Windows 10.

Chapter 3

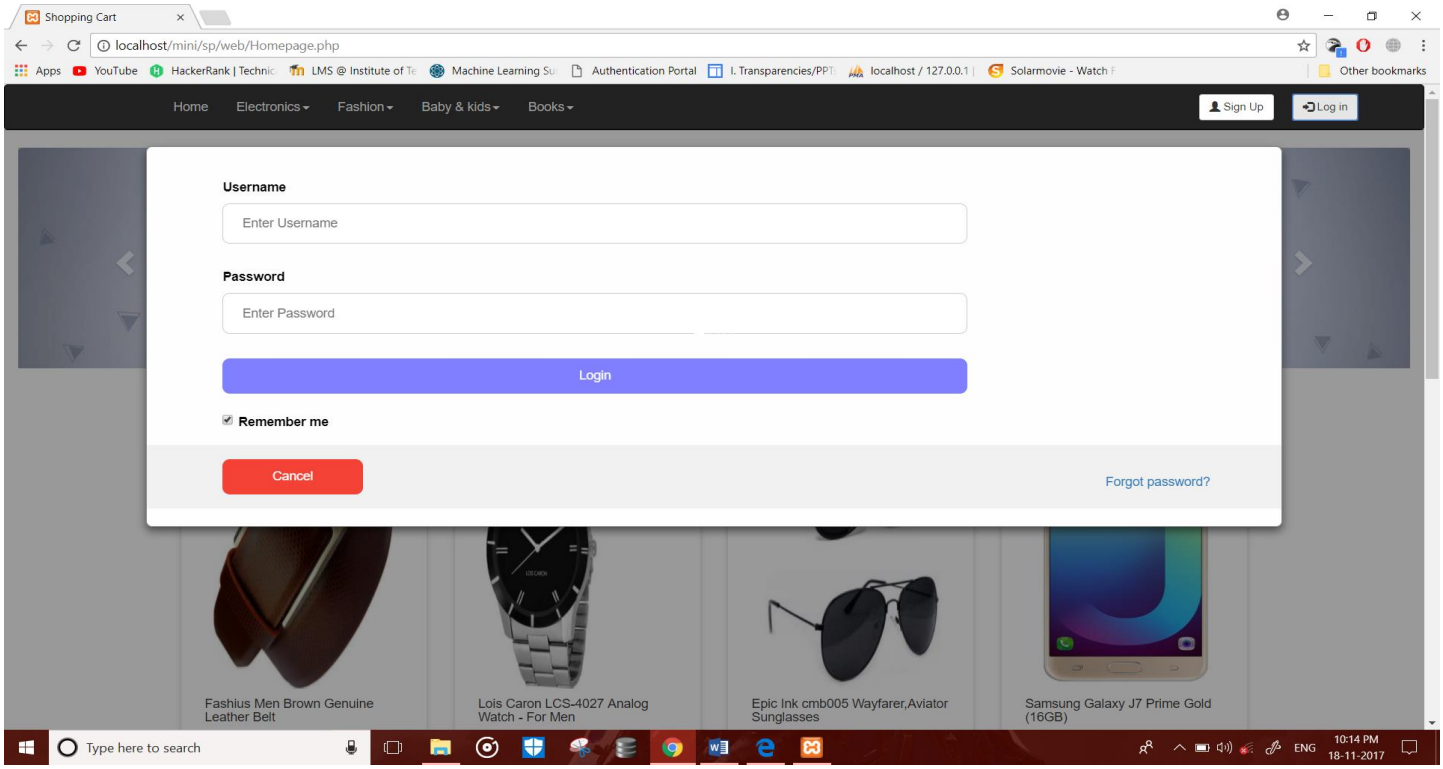
Flow of Website

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

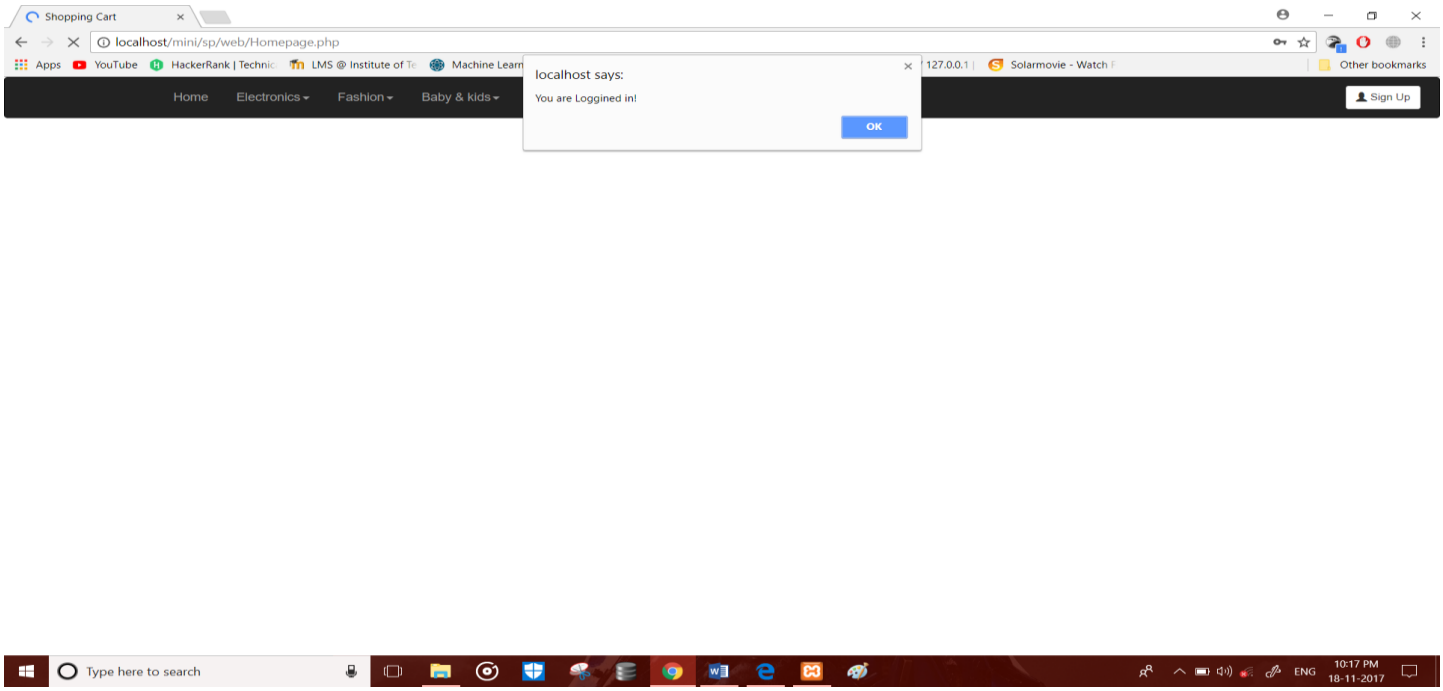
- Below screenshot is the basic interface of home page of the website. Here, menu bar show the various category name of product. carousal display the offer on the product and card that display the various product with two option 1) buy button 2) add to cart button.



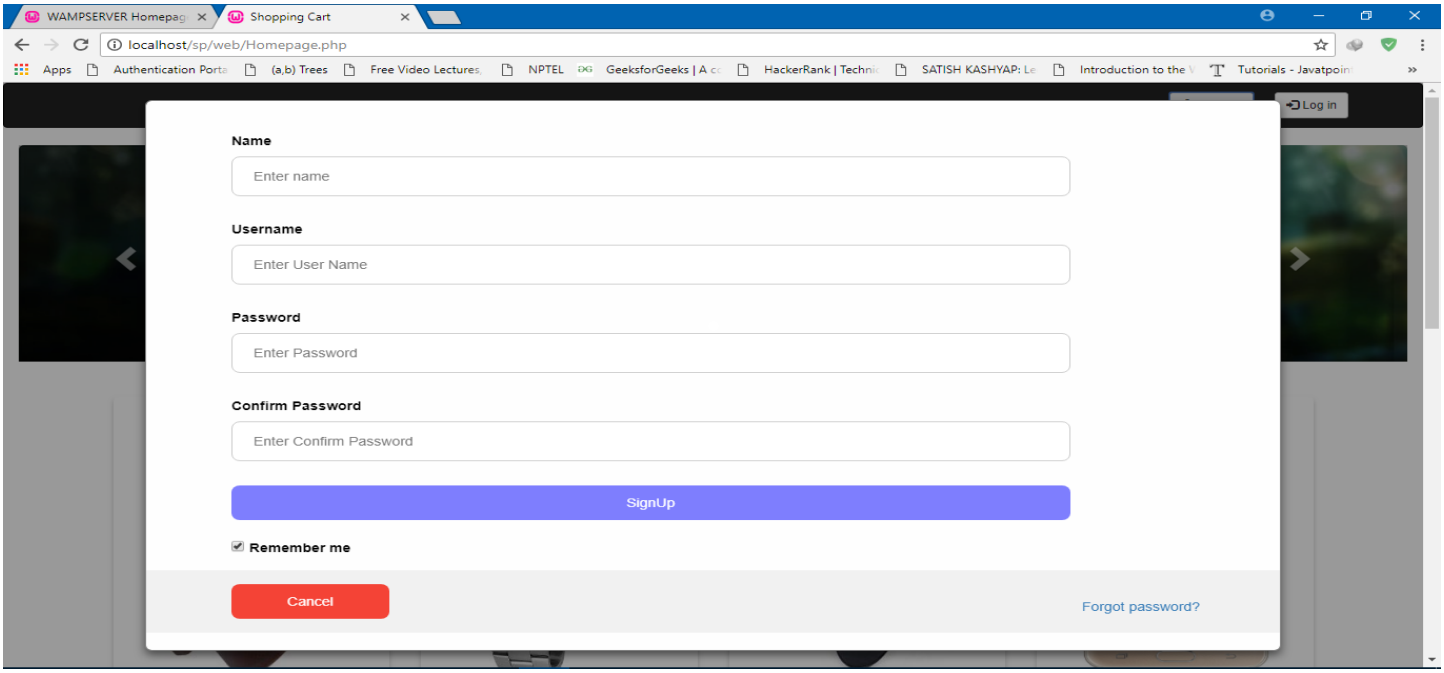
- Here, we create pop-up page of login. Pre-condition of login is user should registered first. If user provided username and password is match then user successful logged in.



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



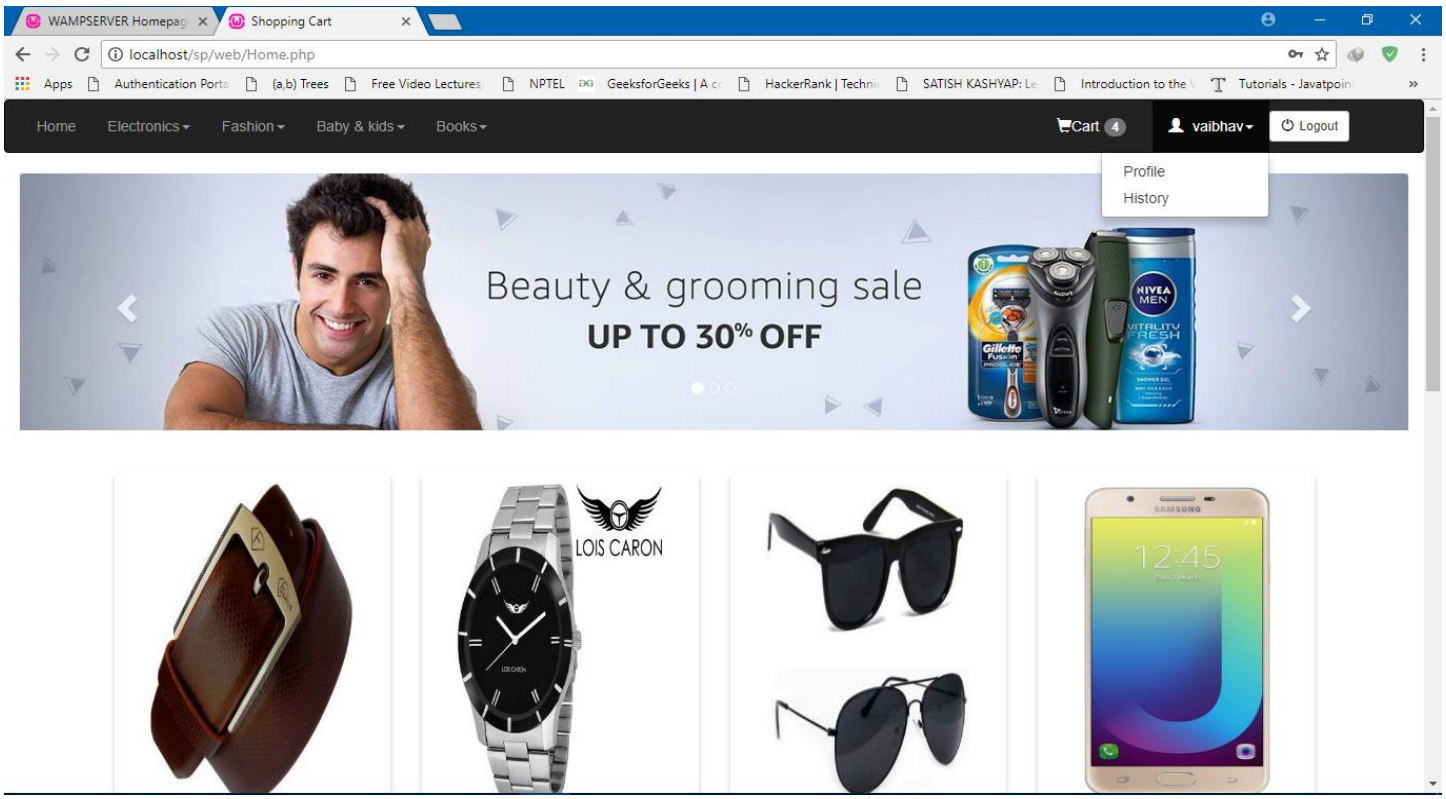
- We have created sign-up pop-up page for the registration of the customer. Then customer can login into portal.

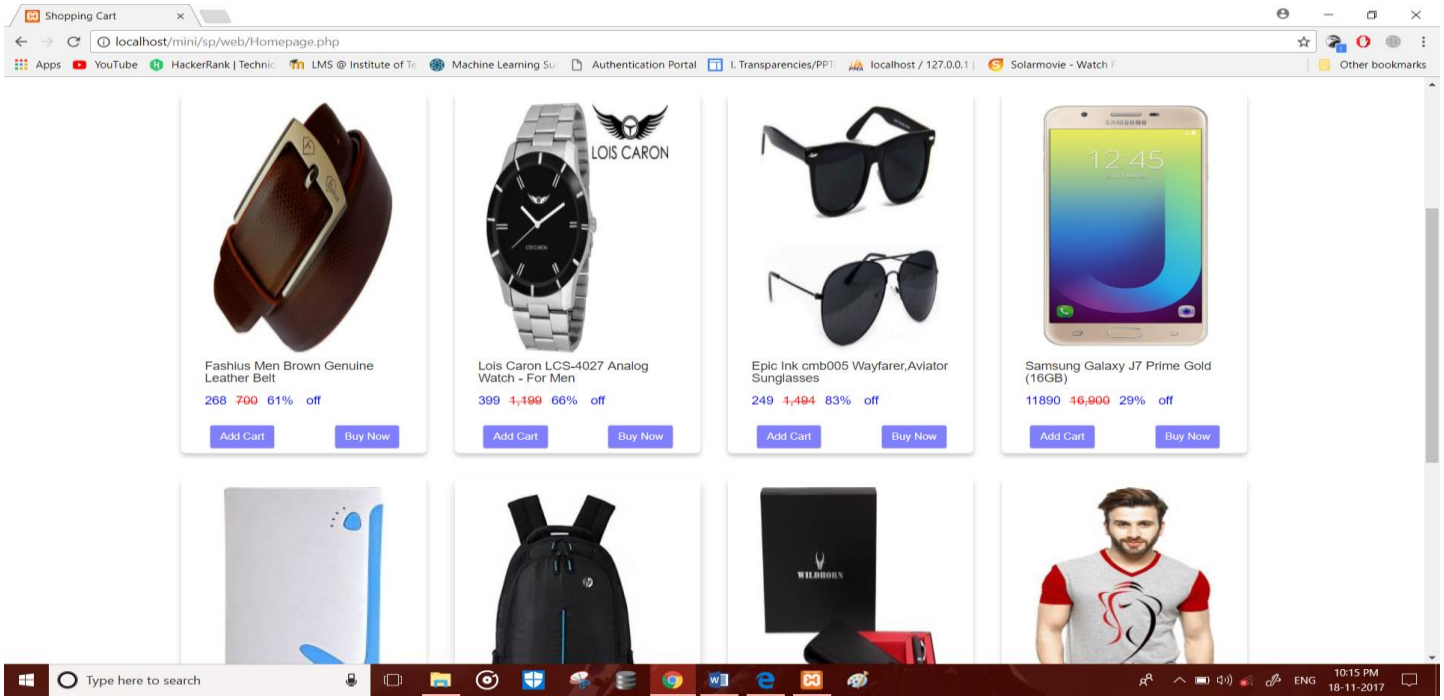


➢ After successful login, on menu bar at right side corner display the cart and username of customer

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.



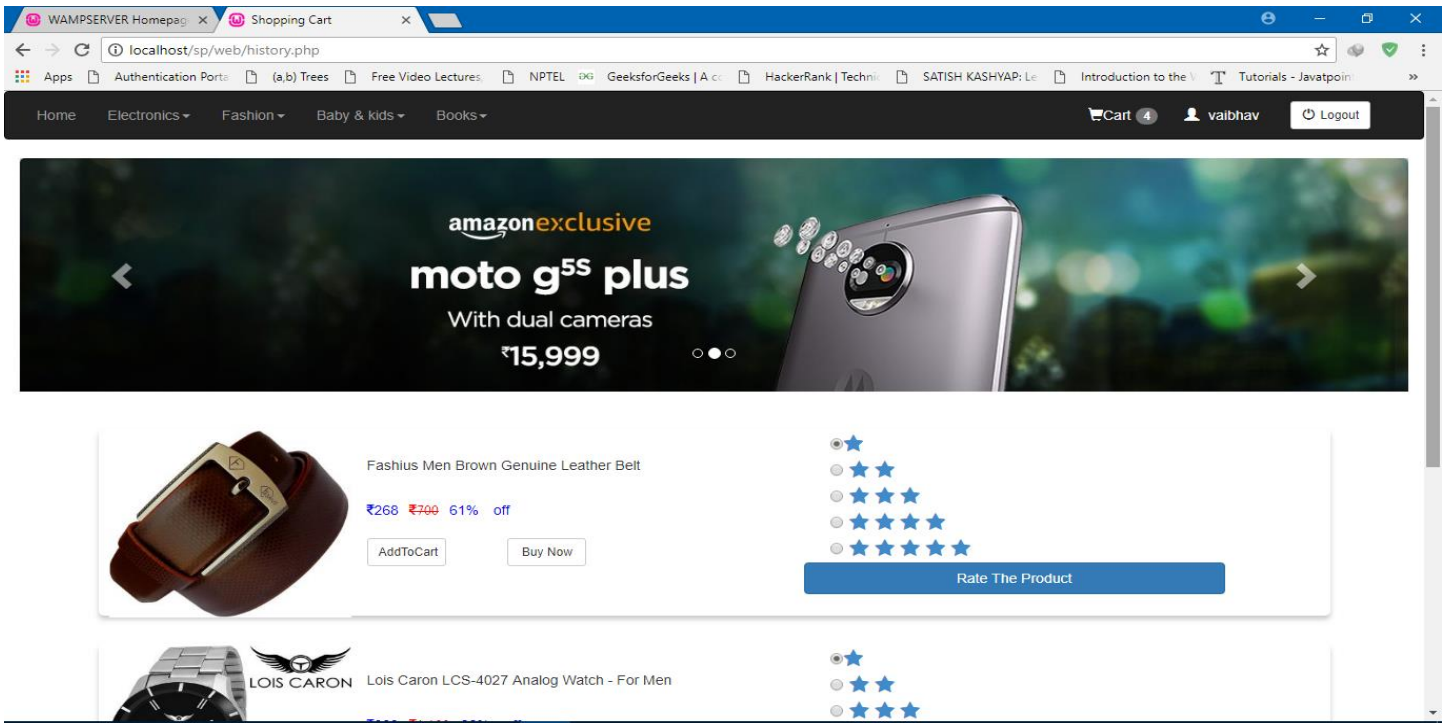


In card, there are two button.

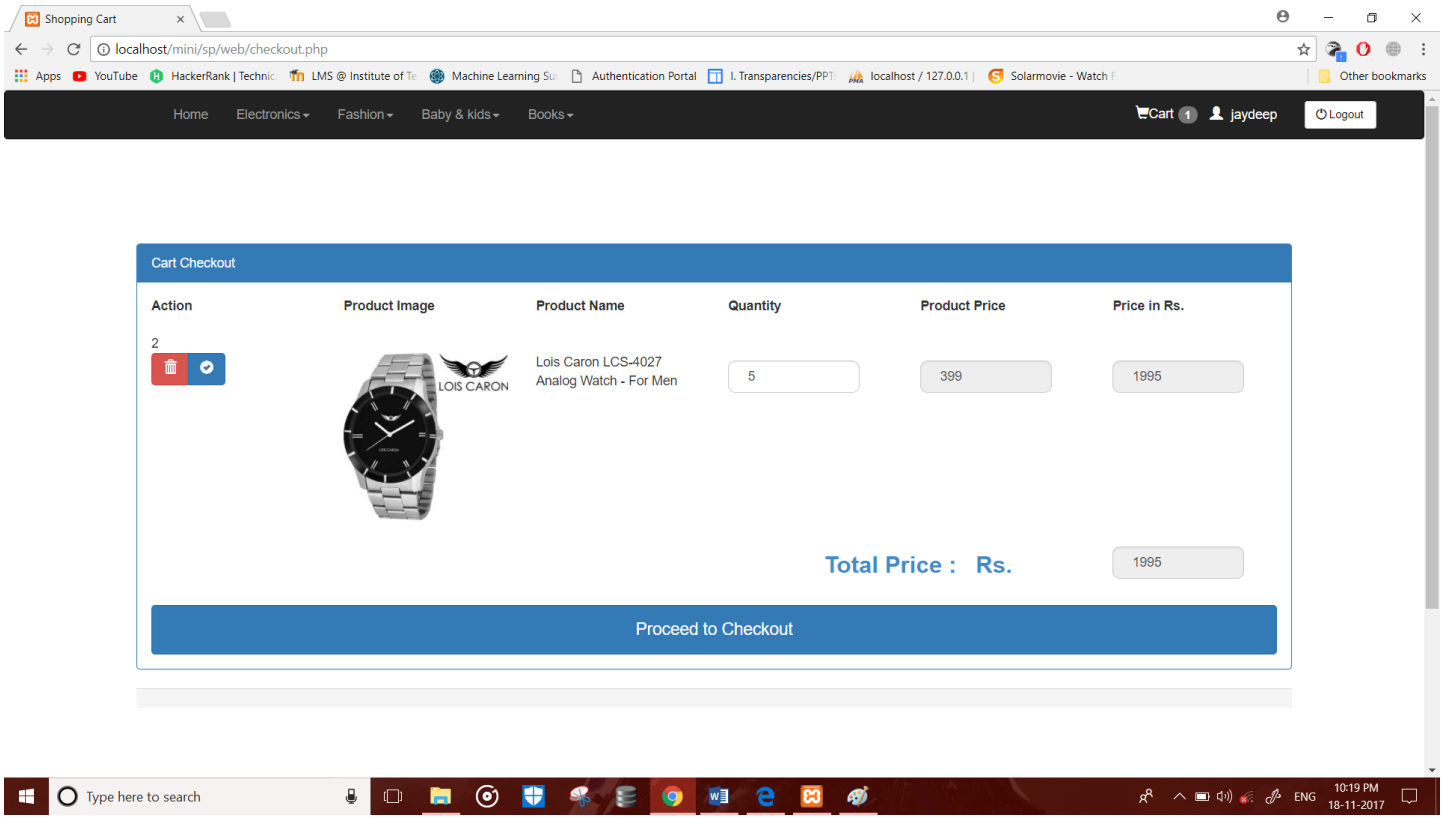
1) Add cart: the user click on this button to add the product into his/her cart.
2) Buy Now: if user click on this page the new page will be open of the selected product with in-depth detail of the product and user can directly place order or it can also add product into cart.

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

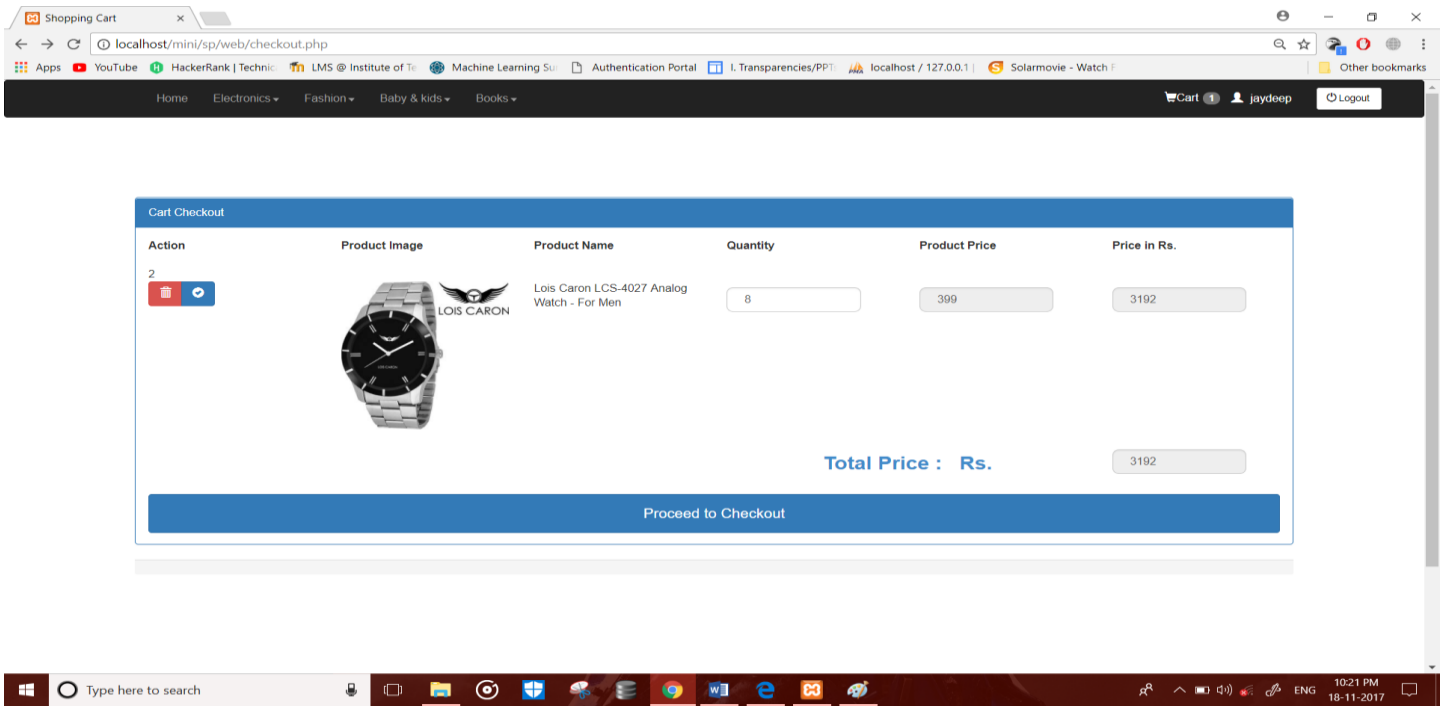
History page:



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

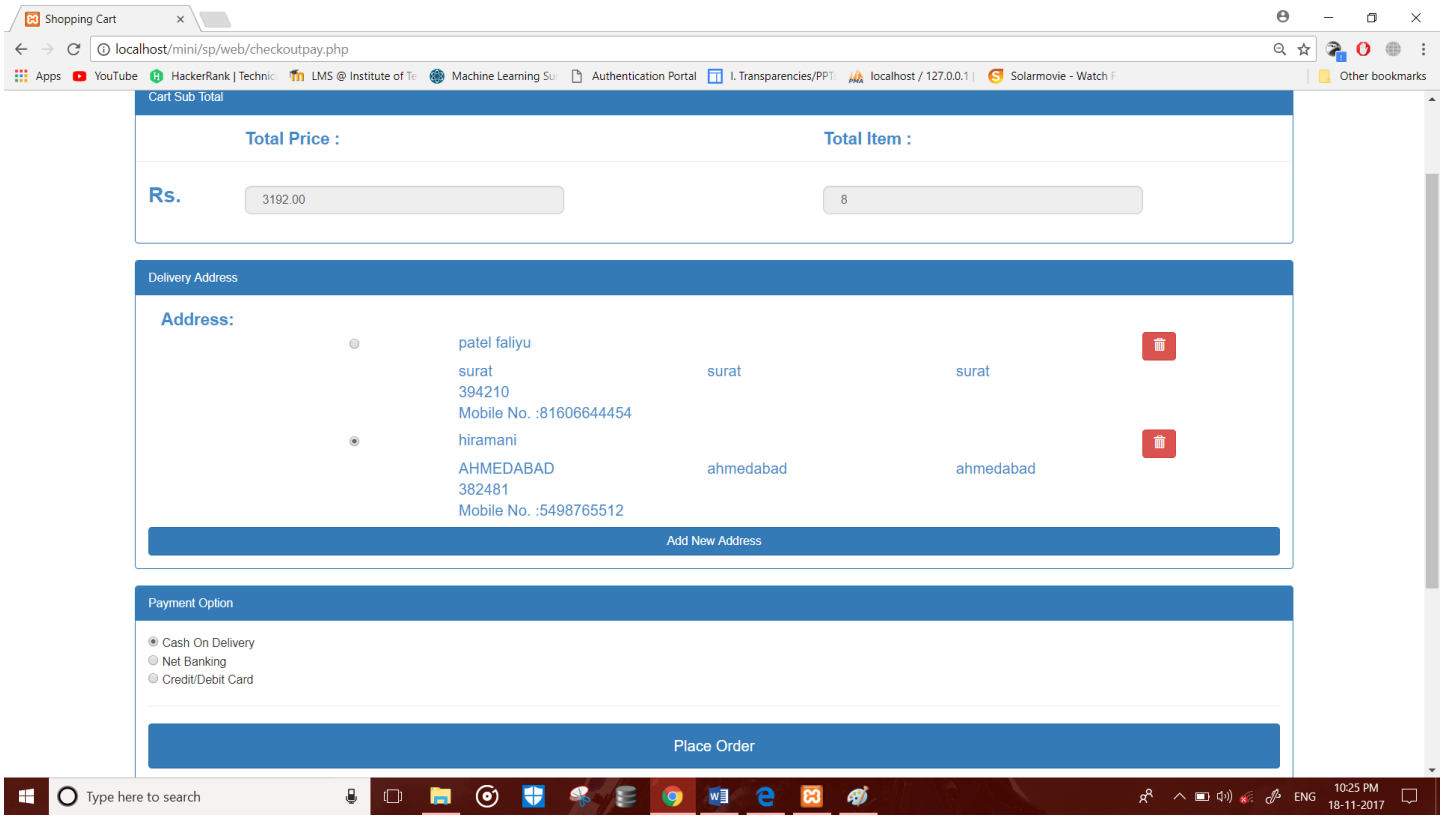


Here, the user can see the product and quantity. the red button for delete product from the cart and the customer can change the quantity of the product and it will update when blue button clicked by the customer and price of product also updated. The updated quantity of product example shown as below:

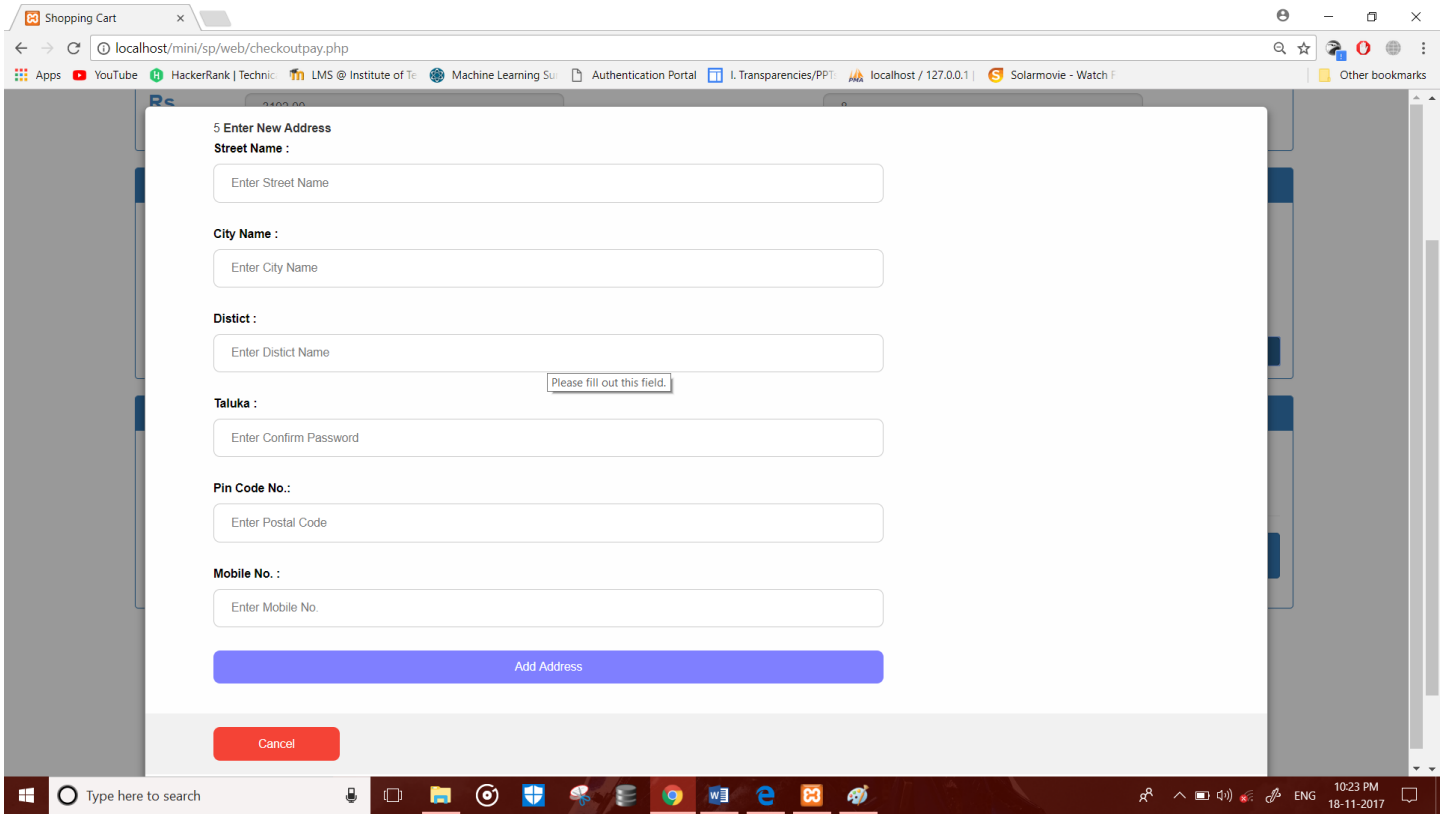


➢ When user click on the “proceed to checkout” button above page the customer redirect on different page.

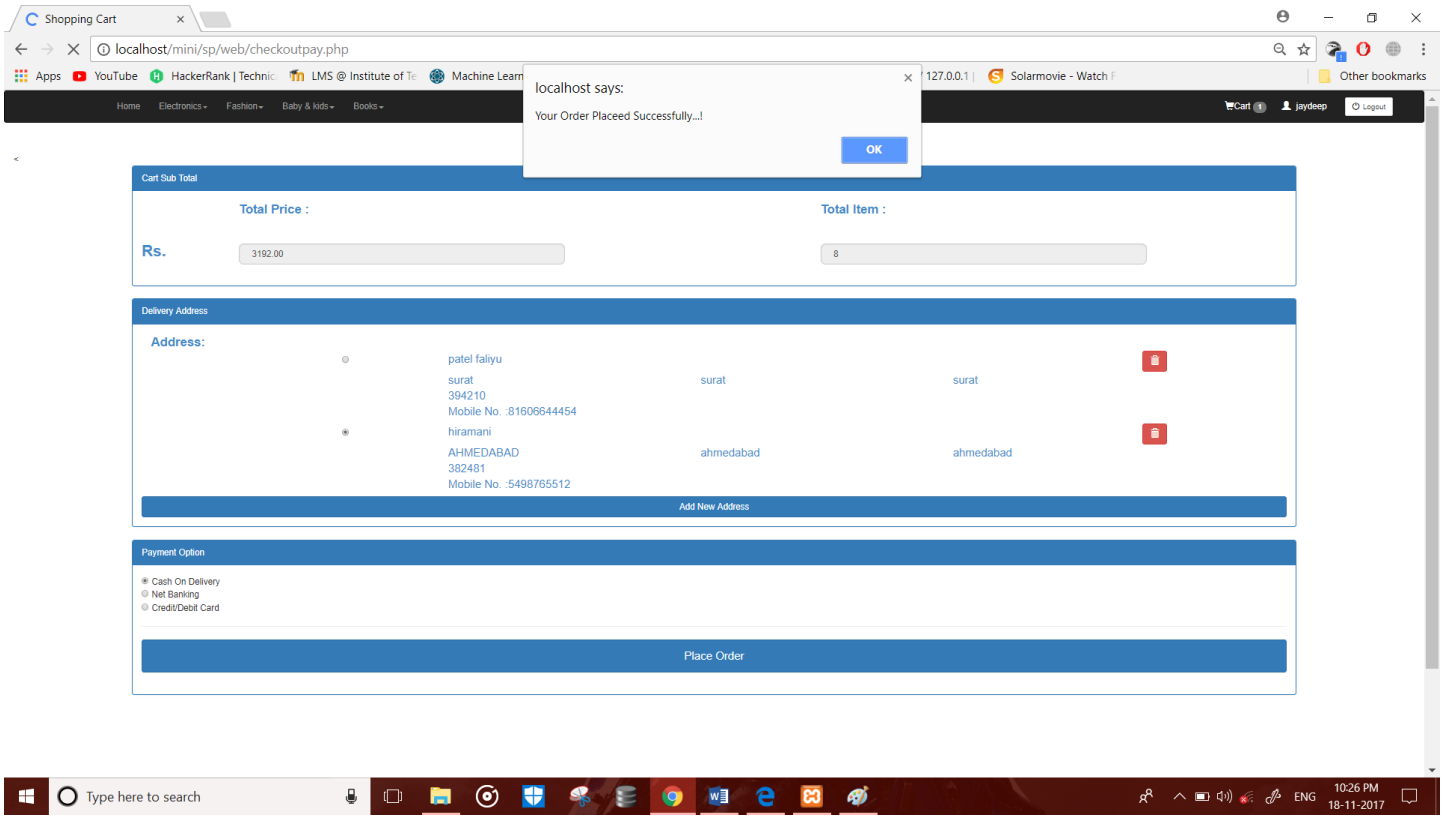
In this page, the customer are able to choose payment option and address to the delivery of product.



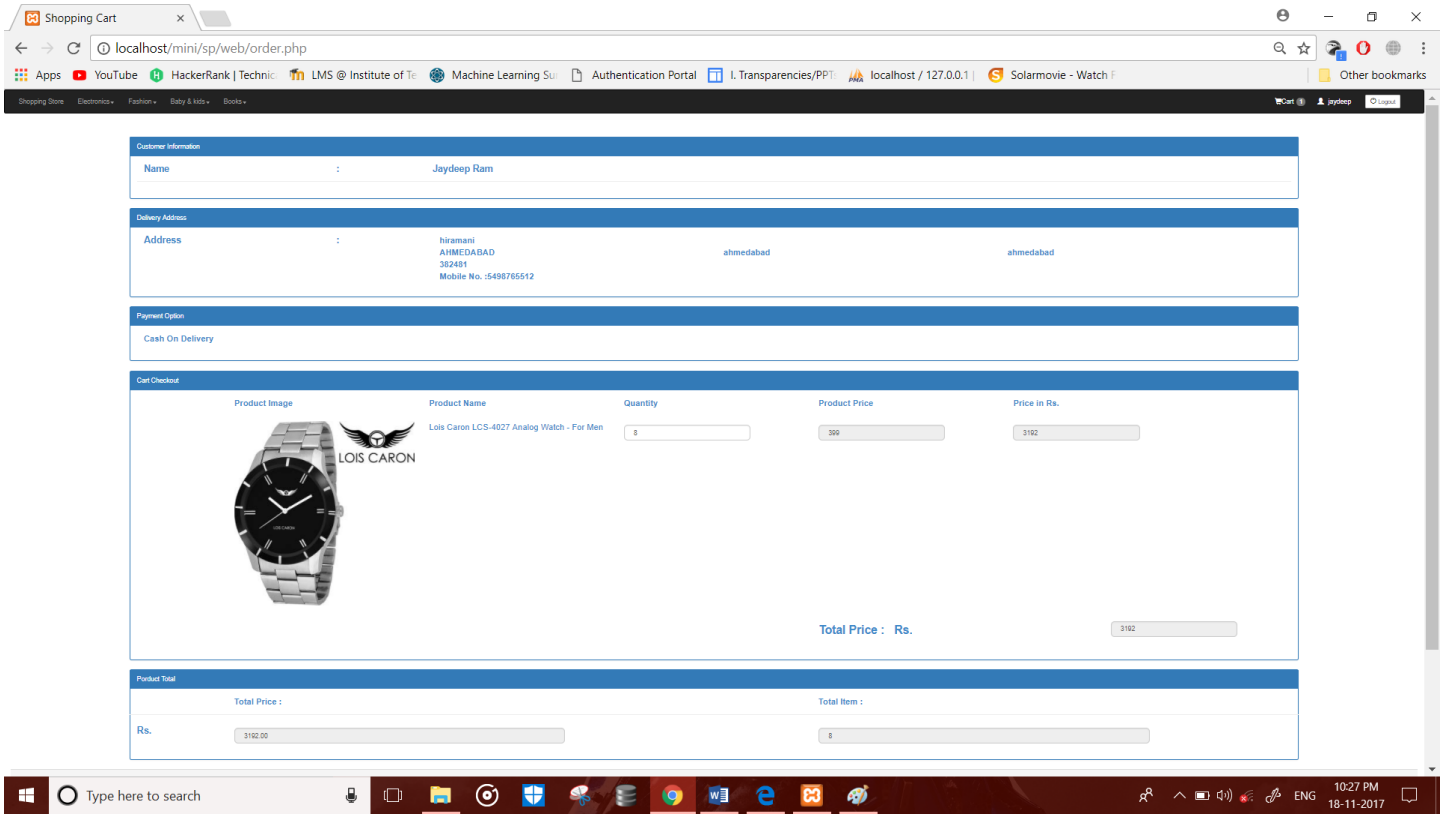
Customer need to add the address for the delivery of the product. The address page open while customer click on “add new address” button of checkoutpay page.



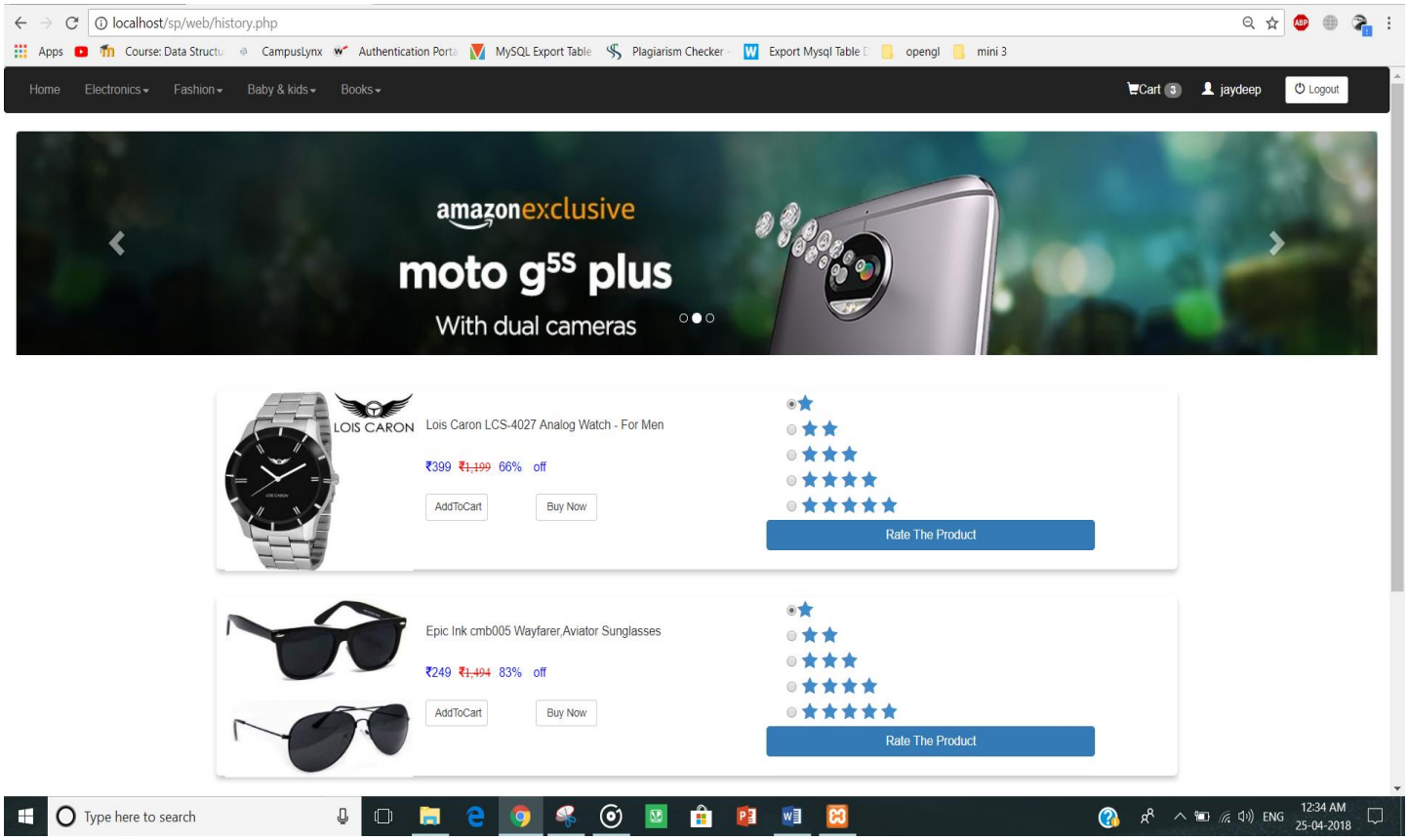
- If customer click on the “place order” button the notification will be display that “YOUR ORDER HAS BEEN SUCCESSFULLY PLACED”.



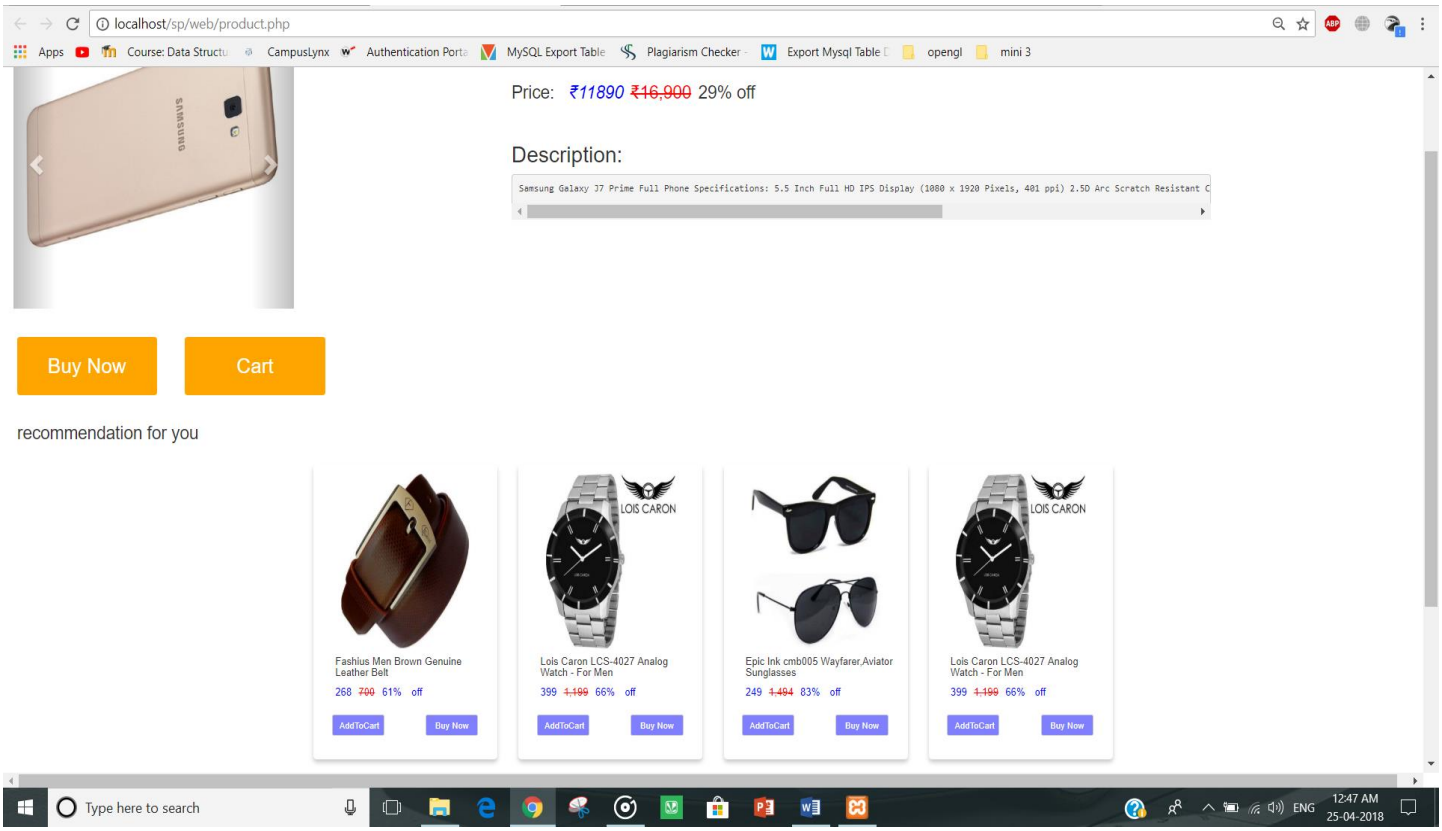
- After clicking on “place order” button user will redirect on the summary page. The summary page contains customer detail, the ordered Products, delivery address, selected payment option.



- 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

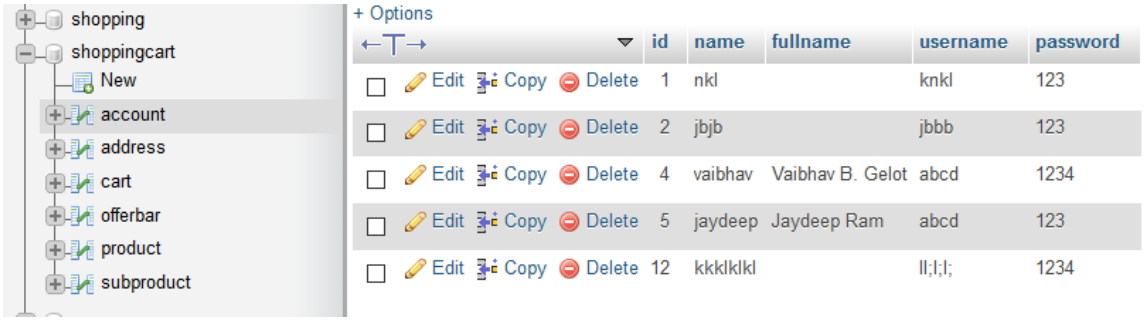
4.1 Database in Website

Name of Database: Shopping cart

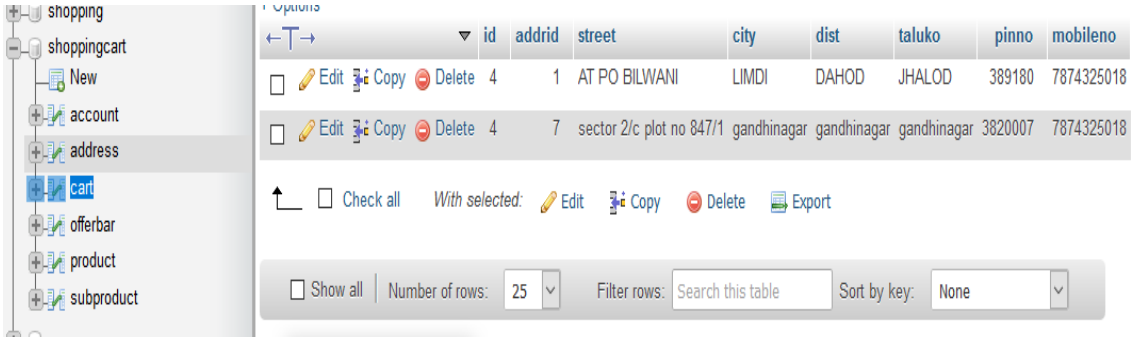
Database tables:

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

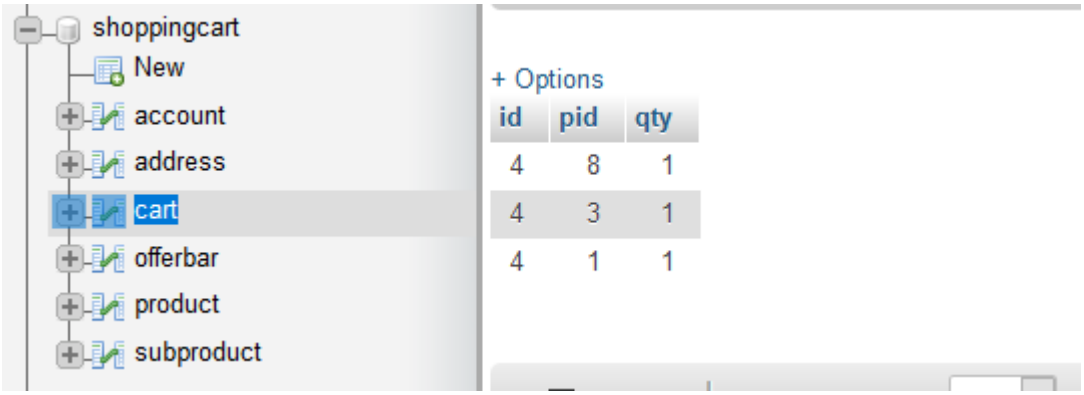
1. Account Table: this table contains details of customer account. This table detail useful for the customer authentication. This table contains customer's id, name, fullname, username and password.



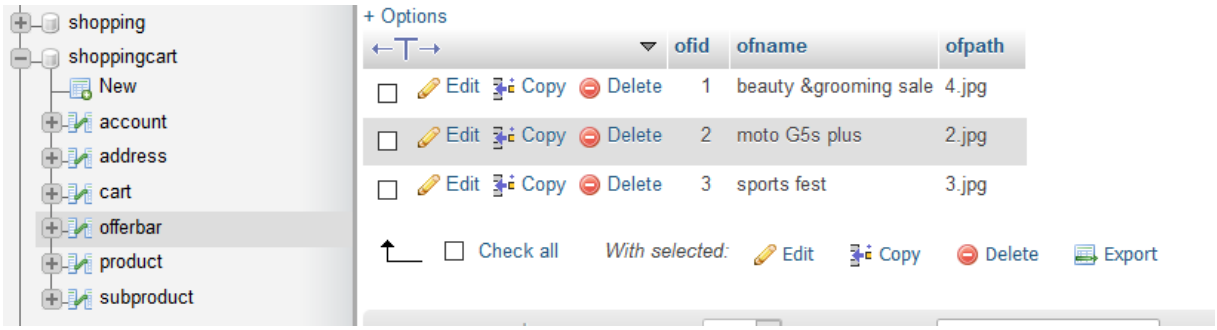
2. Address Table: this table contain data of customer addresses. This table data used for deliver the ordered product.



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

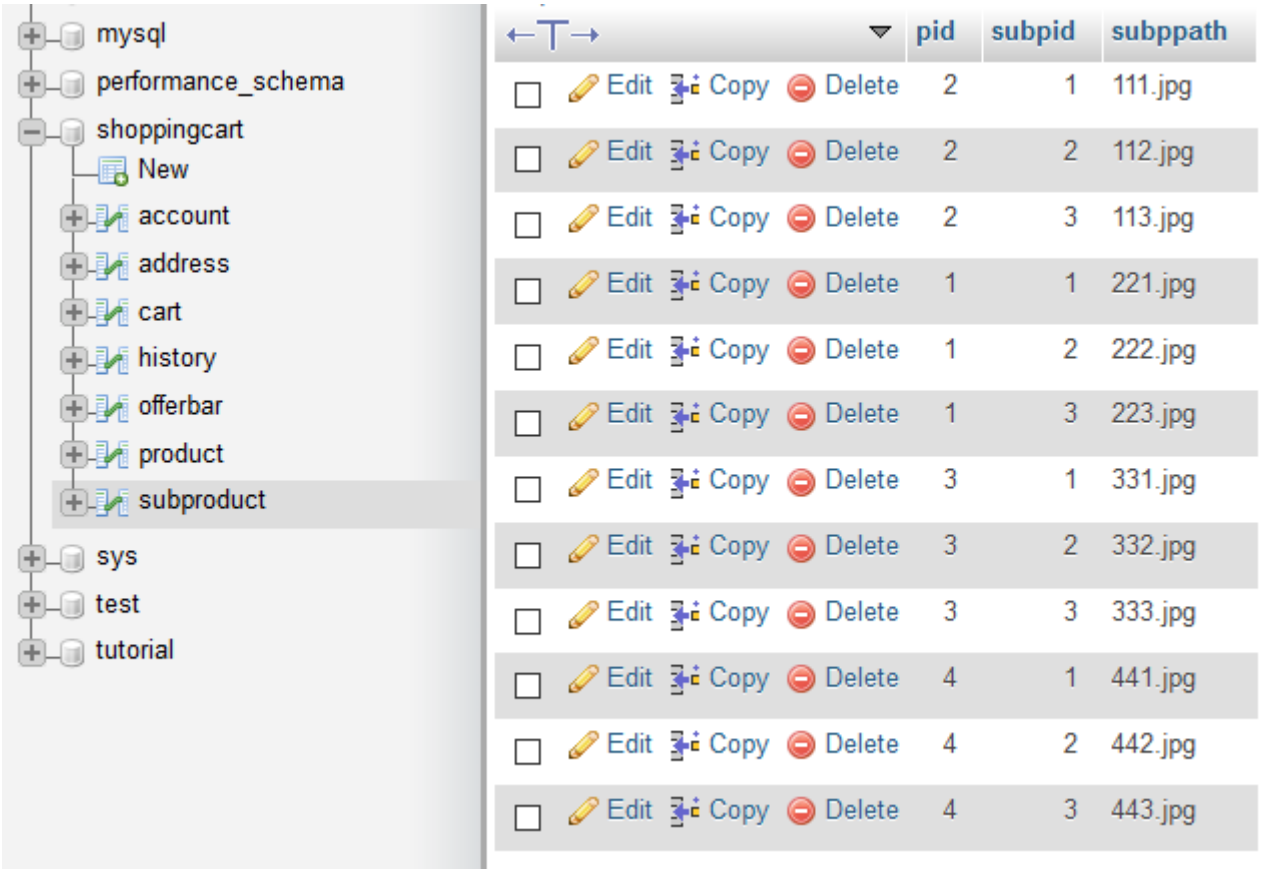


4. Offer bar table: this table contain date of offer product to attract the users.

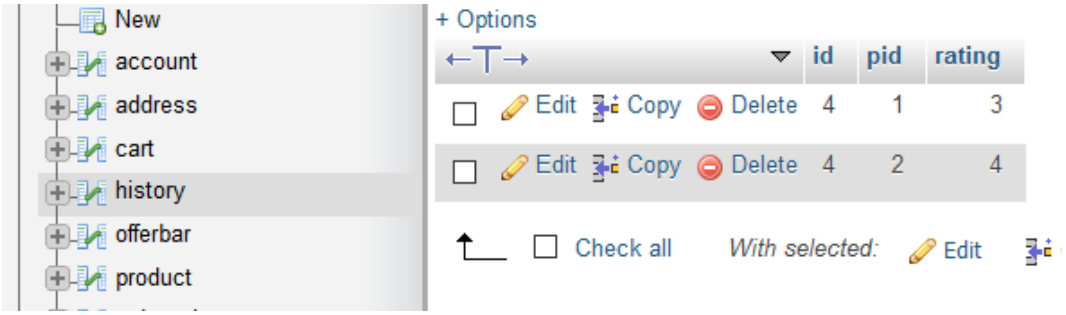


5. Product table: this table contain the detail of products and products are available to buy for the customer.

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



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



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Chapter 5

Summary and Conclusion

We started to build the website from zero and the 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 /

8) https://www.sciencedirect.com/science/article/pii/S1110866515000341

9) https://www.bluepiit.com/blog/classifying-recommender-systems/