

Creation of C2C E-Commerce Website For Student's Use: A Survey

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Abstract- There were many marketplace websites available like Olx.com which were available to all people to buy from or sell to any person. Our website will be a marketplace for college students, so they can buy or sell their material with each other. We will create a user-friendly and responsive website only for students. In order to build our website, we will use HTML, CSS, Bootstrap, JavaScript, jQuery for the front-end side and Node.js, mongo dB for the back-end side of the website. There were no such websites present for students in our area till now. So, this website will be most useful for those students who want to sell their material or buy second hand material at a lower price.

Keywords- C2C Website, responsive, marketplace, web development, GUI

I. INTRODUCTION

E-commerce means using the web and the internet for business transactions or commercial transactions. With the help of E-commerce, we are able to exchange money and goods and services also. Our main project is developing website or web development. Web development means development of website which is hosted on internet. Using web development one can create not only simple text website but also some complex web application, social network. But we choose C2C E-commerce web development because nowadays, due to following important advantages grow of E-commerce is increasing rapidly:

A. Minimum Amount

Reduction in prize is one of the beneficial things for both sides. This will give best experience to user as well as it will increase profit.

B. Variaty of Products

In shop or in offline market customers are unable to see variety of products, but e-commercial market is able to give infinite options.

C. Good Experience to Customer

Have variety of seller to buy products, also able to compare many products as well as their prizes. This thing will give good experience to customers.

To create same for students, so they can take experience of it in during their college life we are creating this.

Our website is a C2C website that is customer to customer website. C2C is one type of E-commerce. These types of websites provide a marketplace for people, so they can interact with other users for their needs or materials. This C2C website is going to grow in future because it minimizes the cost of using third parties.

Our website is going to provide a free marketplace for students, there will be no brokerage taken, so it will be free for the students. Here customers can directly get whatever thing they want which are available on the website. Using websites students can buy, sell or rent material like books, calculators, etc. Customers have to login to the website and then, if he/she wants to sell his/her material he/has to upload the photos of that respective material, add information about that material and set the price for the product whatever he/she wants. If he/she wants to buy or rent some product then he/she has to search for the desired product in the search bar then the customer has to decide which is best for him/her.

The website authority will arrange meetings of both parties, so no third party is involved, which will be helpful for both customers.

II. RELATED INFORMATION

Our paper is related to web development and C2C E-commerce so this section will give a brief about that.

A. Web development:

With the help of Web development one can build as well as maintain the website. With help of Web development, one makes website more fast, efficient, user friendly. There are two major parts of web development:

- Front-End: user Interface.
- Back-End: server side.

Let us see about this thing in brief:

a) *Front end development :*

A Front Development means creating design, layout as well as interface, using not only HTML, CSS but also Bootstrap and many JavaScript libraries. Before creating an actual website, creation of an architecture diagram is important in the front end. [8]

All things which users see on websites such as interface of website, the menus all come under front end. Programs are created to make website more interactive. Using browser, we can run these programs.

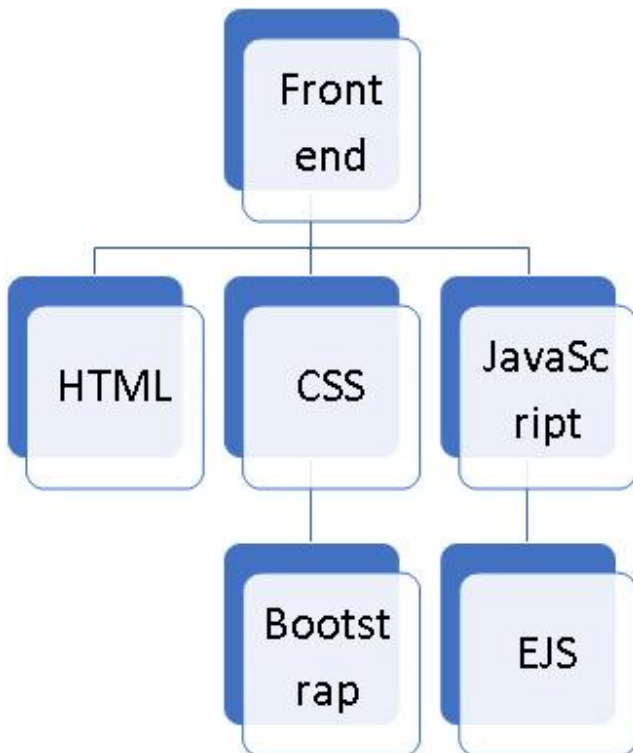


Fig.1 Frontend tools

b) *Back end development:*

The backend development means work behind the scenes. Data is stored in back end. The “Front End” depends on the data stored in the back end. Database containing data,

server for hosting website and app for running websites are parts of back end.

Computer programs are used to ensure that all the things such as application, databases are running easily and fluently. Languages such as “Ruby”, “Python”, “Java” as well as libraries of JS such as Node.js, express.js are used to build back end.

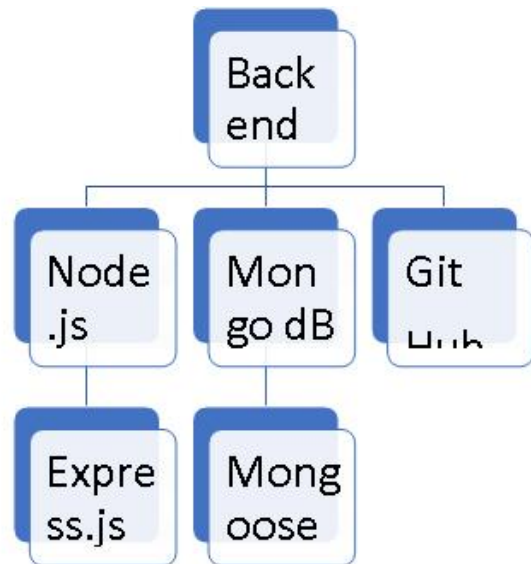


Fig.2 Backend tools

B. C2C E-commerce

‘C2C ‘or ‘Consumer-to-consumer’, E-commerce means selling and buying products or marketplace where transaction of money occurs using internet. In this type of market place a people who not only sales but also buys are consumers. There was no involvement of business companies in C2C. Such sales are organised by third party website which handles the information about transaction, as well as many other things related to transaction, it does not take or take less commission for meeting up the both parties. The purpose of consumer-to-consumer is to enable consumers to buy and sell directly with some other people living across the world without having any broker who takes commission for bringing both the parties together.

III. LITERATURE SURVEY

[1] This survey is idea provider survey for us. Buy new or used car directly using website in cheaper way this statement provides us idea to help college students to exchange their material through website.

[2] Nowadays, creation of website is common but creation of user-friendly and responsive website is more important this key point is provided by this survey which help us a lot.

[3] It is very difficult to get things at new place without broacher so to provide free market place without any cost is important. This is very important point for creation of C2C E commerce website.

Table 1: Literature Survey

Reference No.	Paper name	Key points
[1]	Sadman Sakib, et al Development of Web and Mobile Application Based Online Buy, Sell and Rent Car System	Users can also buy new or used car directly using website in cheaper way
[2]	Zulkifli Mansor, et al Adaptation of Usability Web Design Technique for e-Commerce Development.	The responsive web design technique is becoming more significance due to high demand of user friendly's interface in website.
[3]	Yadong Huang, et al Architecture of Next-Generation E-Commerce Platform	The consumers and suppliers can complete intelligent matching transactions without intermediate trader.
[4]	Jari Pekka Vuotila, et al On the Design of a Responsive User Interface for a Multi-device Web Service	Responsive mobile user interfaces were implemented with preserving as much of the original layouts as possible.
[5]	Halid Dožićević, et al Web design — Past, present and future	Enable web content transfer on more readable and comprehensible way, no matter which device is used to present web content, desktop or hybrid computer, various mobile
[6]	Yadong Huang, et al Development of Online Home Sharing Web Application	Our website will be a platform that will connect those users who are willing to rent their rooms and users who are searching for a home to stay.
[7]	Jevremi Marenkov, et al A study on effective knowledge reuse in multi-platform web applications user interfaces	More and more applications are being migrated from desktop to mobile platforms. Due to the different screen resolutions and device usage behavior, user experience can be extremely different on desktop and portable devices.

[4] Importance of responsive website creation we get from this survey. Implementing website with preserving as much of the original layouts as possible is goal of responsive website development.

[5] Our website must be good-looking and user-friendly in any condition. No matter you are using which type of device.

[6] This is another idea giving survey for us. They created for tourist who visit their place, and we are creating for students to exchange their material.

[7] Our website's GUI must be good although person that will see our website from any type of device screen. This is important nowadays that website must be good-looking and user-friendly.

IV. ARCHITECTURE DIAGRAM

In first page there is our starting page. It contains login, contacts and features options. On clicking login button person will go to login page. When person login to website his/her data will be saved in database. After signing in person will reach home page. In this page products photos, search bar, cart button will appear. If you want to add your products in website then go to add page. Then you have to add photo, information about your product and click on the add button. In back end, data will be added to database. So, it will be shown on pages where it is important. If you want to see product bookmarked by you go to cart page. If someone wants to see

products information then just click on the product then he/she will go to item page.

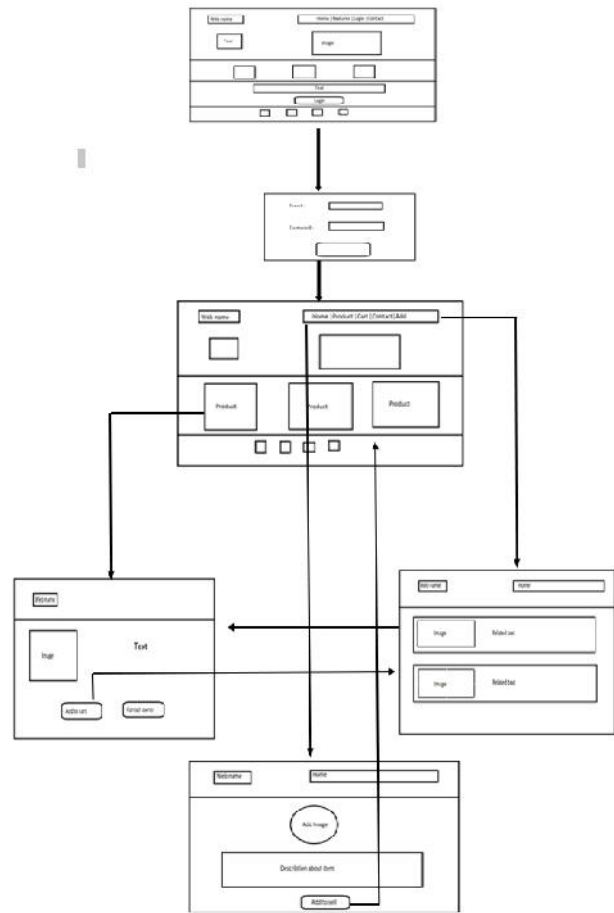


Fig.3 Architecture Diagram

V. DESIGN OF WEBSITE

A. Starting Page

This page will contain home, feature, login and contact options. By clicking these options in the navbar page will scroll down to that part of the page. It contains a login button in the login part. So, users can login to the website.

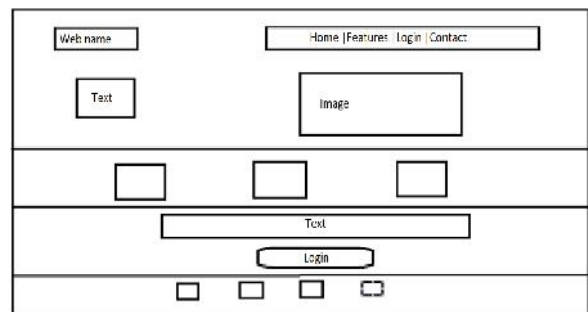


Fig.4 Starting page

B. Login page

In the login page User can login easily using general login technique. There were sign on options provided in the login page for new users. Data will be saved in database when person click on login.

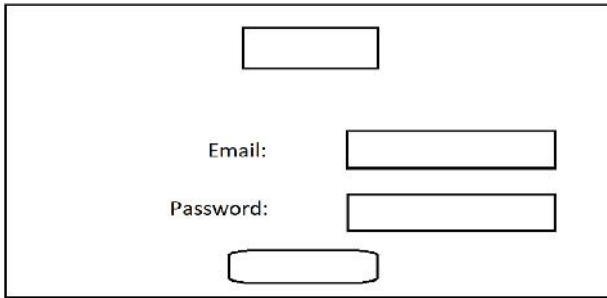


Fig.5 Login page

C. Home page

Home page contains a navbar, item part, comment part and contact part. Material uploaded by the user will be available here in the item part of the webpage.

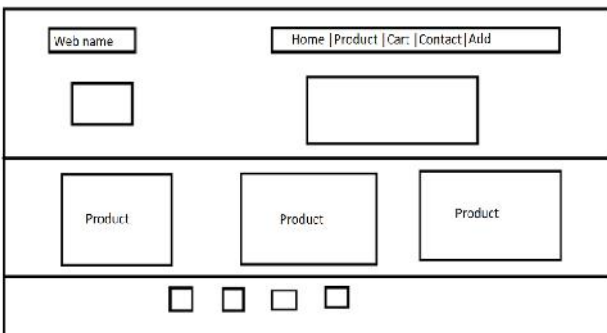


Fig.6 Home page

D. Cart page

It will show items added by the user in the cart so he /she can get items easily later. Cart option will be available in the navbar of the home page.

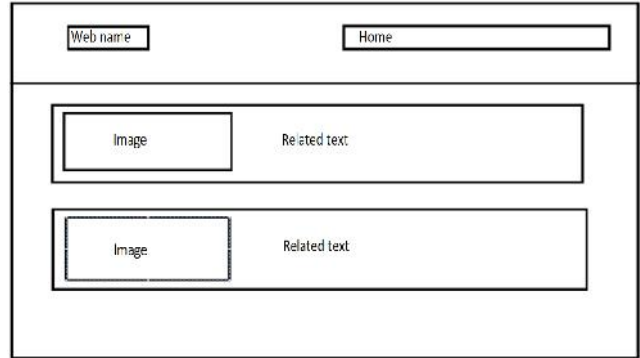


Fig.7 Cart page

E. Item page

When a student clicks any item present in the item part of the home page then he /she will come on this web page to get details of that item uploaded by another student.

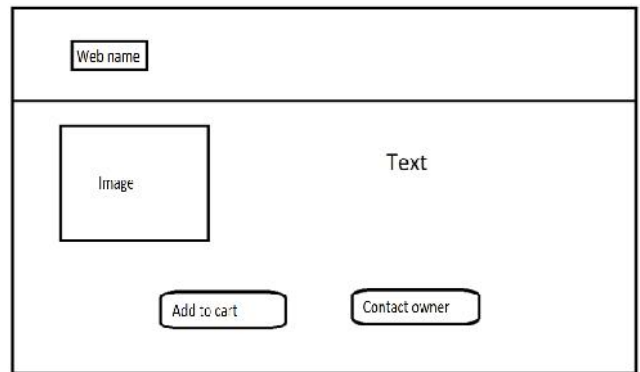


Fig.8 Item page

F. Add page

On this page students are able to upload their item images and information. Add option is available on the home page.

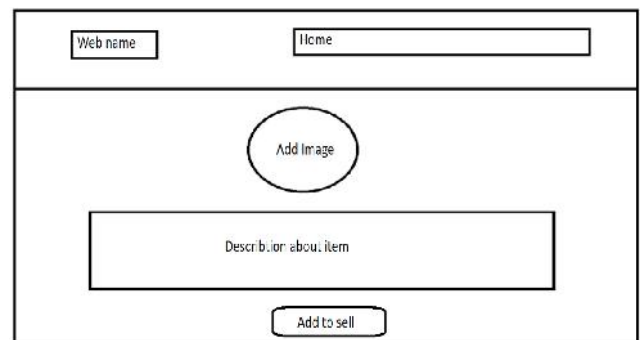


Fig.9 Add page

VI. IMPLEMENTATION AND RESULT

We started collecting information related to our project. We learn the tools like 'HTML', 'CSS', 'JS' for front end and 'Nodejs', 'Mongo dB' and more for back-end creation of website. We search for websites which are related to our project and get information from that websites also. We faced many errors during creation but we searched many websites to solve each error and try to implement better website than other websites. We created own video related to our website which contain all information related to our website.

We created better, responsive and user-friendly website for student use. It has many features. It will be the best website created by students for students.

VII. CONCLUSION AND FUTURE WORK

Searching for buyer or seller in offline mode is very hard and time consuming but by using this website one can easily find the buyer and seller, which will be very useful for consumers. As the website authorities do not take brokerage this will save money of the both customers that are buyer and seller. Renting the product is one of the best features of a website due this feature that the customer can use the product until he/she wants. After that the owner can retain the product from the customer with some money. The GUI of the website is also simple which will help customers.

Our website is now available only for small areas and only for students. But in future we will implement the same for teachers and other members in colleges on the same website, so it will be helpful for many colleges and also for students. We will update GUI and feature in our website with time so everyone likes our website. Also, he/she does not face any problem using our website. We will improve security so no one is able to access others' accounts easily. We will add a chatroom for customers so they can contact each other via. any way.

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