MINI PROJECT-II
MID-TERM REPORT
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E-SHOPPERS

Department of Computer Engineering & Applications

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Abstract

The E-Shoppers is a web based application intended for online retailers. The main objective of this application is to make it interactive and its ease of use. It would make searching, viewing and selection of a product easier. It contains a sophisticated search engine for user's to search for products specific to their needs. The search engine provides an easy and convenient way to search for products where a user can Search for a product interactively and the search engine would refine the products available based on the user's input. The user can then view the complete specification of each product. They can also view the product reviews and also write their own reviews. The application also provides a drag and drop feature so that a user can add a product to the shopping cart by dragging the item in to the shopping cart. The main emphasis lies in providing a userfriendly search engine for effectively showing the desired results and its drag and drop behavior.

1. Introduction

1.1 General Introduction To The Topic:

The world is fast evolving, and so is everything that resides in it. The market system of the world today is no exception to this evolution. Lots of businesses and trade stores now take their online presence seriously. The reason is not far-fetched; this is because most people now prefer to purchase their goods and services online rather than entering someone's store to shop.

Since the rise of large internet-based e-commerce sites, the growth of online shopping has been exponential, with a huge increase in the number of consumers choosing to buy online rather than in-store. Many traditional retailers have also followed suit, with most shops now having a dedicated e-commerce website from which consumers can make online purchases, from high street brands to charities. Even brands which no longer exist on the high street are often available online.

"E-Shoppers" is a web-based project which is made for remote-shopping or shopping through Internet. As the technology is being advanced the way of life is changing accordance. Now a day's we can place the order for anything from our home. There is no need to go the shop of the things we want. The order can be placed online through Internet. The payment, the confirmation of purchasing; we can do everything we want. Now we can think that how the days have been changed with time. People had to stand in rows to wait there terms to buy a particular thing from a popular shop. But what is happening now a day's; we can extremely surprise that those things can be available on the door-step in few hours.

This project entitled "E-Shoppers" is an implementation of the above description. It means, it implements the E-shopping or in other word shopping through Internet. It lets the user to place their order online for any article.

1.2 Area Of Computer Science:

Web development is the work involved in developing a Web site for the Internet (World Wide Web) or an intranet (a private network). Web development can range from developing a simple single static page of plain text to complex Web-based Internet applications (Web apps), electronic businesses, and social network services. A more comprehensive list of tasks to which Web development commonly refers, may include Web engineering, Web design, Web content development, client liaison, client-side/server-side scripting, Web server and network security configuration, and e-commerce development.

Among Web professionals, "Web development" usually refers to the main non-design aspects of building Web sites: writing markup and coding. Web development may use content management system (CMS) to make content changes easier and available with basic technical skills.

For larger organizations and businesses, Web development teams can consist of hundreds of people (Web developers) and follow standard methods like agile methodologies while developing Web sites. Smaller organizations may only require a single permanent or contracting developer, or secondary assignment to related job positions such as graphic designer or information systems technician. Web development may be a collaborative effort between departments rather than the domain of a designated department.

There are two kinds of Web developer specialization:

1.   Front-end Developer

2.   Back-end Developer

Front-end developers are responsible for behaviour and visuals that run in the user browser, while back-end developers deal with the services. Whereas, full-stack developers are combination of both front-end developers and back-end developers.

1.3 Hardware And Software Requirements:

1.3.1 Hardware Requirements Specification:

Processor   : Intel Pentium III or later

Main Memory(RAM)   : 512 MB

Cache Memory   : 512 KB

Monitor   : 14 inch Color Monitor

Keyboard   : 108 Keys

Mouse   : Optical Mouse

Hard Disk   : 160 GB

1.3.2 Software Requirements Specification:

Front End/Language :   PHP, CSS, JavaScript

Back End/Database   :   MYSQL

Additional Tools   :   XAMPP Server

Operating System   :   Windows 7, 8, 9, 10, XP

2. **Problem Definition**

2.1 <u>Existing System:</u>

- The basic problems with the existing systems are the non-interactive environment they provide to the users.

- The use of traditional user interfaces which make continuous post backs to the server; each post back makes a call to the server, gets the response and then refreshes the entire web form to display the result. This scenario adds an extra trade off causing a delay in displaying the results.

- A search engine that would display the results without allowing the users to further filter the results based on various parameters.

- Use of traditional and non-user friendly interfaces that are hard to use.

2.2 <u>**Drawbacks Of Existing System:**</u>

1. You lose a lot of time.
2. You must meet a lot of strangers and to go through the fuss.
3. To try on the clothes you must wait for a free dressing room.
4. Consumers have to travel a certain distance to the product.
5. It cost money to build a physical atmosphere.
6. You forget the prices you have seen in the previous shops, so you can't compare them.
7. Not all stores and businesses have the exact item for the customers.
8. Since you want to see something and visit every store, you are under pressure.
9. There is some limited time of when the store us open and shut.

2.3 <u>Proposed System:</u>

This software is developed to help computer science students learn about application designing using JavaScript and HTML from their basic capabilities. This application allows the student to understand the basics about the appearance of a first web page and how a complete working application can be built from scratch. It allows students to understand the concept of user-integrated graphics and how JavaScript can be embedded into HTML. Further, it gives insight about how the client-side language interacts with the server-side language, Java, and finally with the database. This shopping-cart application is designed, primarily, for computer science students to learn and understand the concept of application development, and can also be used to teach ecommerce and web-application topics. The application can be downloaded and 3 installed on different machines, and students can view the source code for all the different parts shown on the UI to visually understand how a particular piece of code works. This shopping-cart application is very versatile and can be enhanced by adding more functions and modified graphics for use with commercial purposes.

2.4 <u>Features Of Proposed System:</u>

1. **Convenience.** Convenience is the biggest perk. Where else can you comfortably shop at midnight while in your pajamas? There are no lines to wait in or cashiers to track down to help you with your purchases, and you can do your shopping in minutes. Online shops give us the opportunity to shop 24/7, and also reward us with a 'no pollution' shopping experience. There is no better place to buy informational products like e-books, which are available to you instantly, as soon as the payment goes through. Downloadable items purchased online eliminate the need for any kind of physical material at all, as well, which helps the environment!

2. **Better prices.** Cheap deals and better prices are available online, because products come to you direct from the manufacturer or seller without involving middlemen. Plus, it's easier to compare prices and find a better deal. Many online sites offer discount coupons and rebates, as well**.** Not only are prices better, but you can save on tax as well, since online shops are only required to collect a sales tax if they have a physical location in your state. Factor in the saved expense of gas and parking and you have saved yourself a lot of money!

3. **More variety.** The choices online are amazing. You can find almost any brand or item you're looking for. You can get in on the latest international trends without spending money on airfare. You can shop from retailers in other parts of the state, country, or even world instead of being limited to your own geography. A far greater selection of colors and sizes than you will find locally are at your disposal. Plus, the stock is much more plentiful, so you'll always be able to find your size and color. Some online shops even accept orders for out-of-stock items and ship when they come in.

4. **You can send gifts more easily.** Sending gifts to relatives and friends is easy, no matter where they are. All the packaging and shipping is done for you. Oftentimes, they'll even gift wrap it for you! Now, there is no need to make distance an excuse for not sending a gift on occasions like birthdays, weddings, anniversaries, Valentine's Day, Mother's Day, Father's Day, and so forth.

5. **More control.** Many times, when we opt for conventional shopping, we tend to spend a lot more than planned and end up buying items that aren't exactly what we wanted (but we can't find anything better in the store). Online, you don't have to let the store's inventory dictate what you buy, and you can get exactly what you want and need.

6. **Easy price comparisons.** Comparing and researching products and their prices is so much easier online. If you're shopping for appliances, for example, you can find consumer reviews and product comparisons for all the options on the market, with links to the best prices. We can research firsthand experience, ratings, and reviews for most products and retailers.

7. **No crowds.** If you are like me, you hate crowds when you're shopping. Especially during holidays, festivals, or on weekends, they can be such a huge headache. Also, being crushed in the crowds of shoppers sometimes makes us feel rushed or hurried. You don't have to battle for a parking place. All of these problems can be avoided when you shop online.

8. **No pressure.** Oftentimes when we're out shopping, we end up buying things that we don't really need, all because shopkeepers pressure us or use their selling skills to compel us to make these purchases.

9. **You can buy used or damaged items at lower prices.** The marketplace on the Internet gives us access to listings of old or damaged items at rock bottom prices. Also, if we want to buy antiques, there's no better place to find great ones.

10. **Discreet purchases are easier.** Some things are better done in the privacy of your home. Online shops are best for discreet purchases for things like adult toys, sexy lingerie, and so on. This enables me to purchase undergarments and lingerie without embarrassment or any paranoia that there are people watching or judging me.

3. <u>Objective</u>

There are several objective of this website. Some of them are as following:

• This site gives all the information about the e-shopping to provide better services to the customer.

• It provides the facility to the customers who want to shop on-line due to lock of time.

• It provides the facility to the customer for payment by cash, cheque and DD also.

• It's providing the full details about the product and related information about the product like cost, size etc.

• With it's help we can save both time and money.

• It provides better security and good delivery service to the customer.

• This site gives all the information about the e-shopping to provide better service.

4. <u>Implementation Details</u>

4.1 Detail Description Of Technology Used:

Following is the brief description about various technologies used while designing this system:

➢ **PHP (Hypertext Preprocessor):**

Hypertext Preprocessor is a widely used, general-purpose scripting language that was originally designed for web applications.

➢ **PHP Advantages:**

A popular choice in today's web world is using PHP. PHP is a general-purpose scripting language that is especially suited to server-side web development where PHP generally runs on a web server. Its clarity in design, well organized modules and better upkeep of various technologies, make it the most popular language in the online industry today. Its popularity and credibility can be judged by the fact hat reputed organizations like Harvard University and popular social networking site Facebook, both are based on PHP. This is possible because PHP websites can be easily maintained, improved and updated from time to time.

➢ **JavaScript:**

JavaScript is an object-oriented scripting language used to enable programmatic access to objects within both the client application and other applications. It is primarily used in the form of client-side JavaScript, implemented as an integrated omponent of the web browser, allowing the development of enhanced user interfaces and dynamic websites. JavaScript is a dialect of the ECMA Script standard and is characterized as a dynamic, weakly typed, prototype-based language with first-class functions. JavaScript was influenced by many languages and was designed to look like Java, but to be easier for non-programmers to work

with Java Script was originally developed by Brendan Eich of Netscape under the name Mocha, which was later renamed to Live Script, and finally to JavaScript.

➢ Apache:

The name 'Apache' was chosen from respect for the Native American Indian tribe of Apache, well-known for their superior skills in warfare strategy and their inexhaustible endurance. It also makes a cute pun on "a patchy web server", a server made from a series of patches but this was not its origin. The group of developers who released this new software soon started to call themselves the "Apache Group". The Apache HTTP Server, colloquially called Apache, is a free and open-source cross-platform web server software, released under the terms of Apache License 2.0. Apache is developed and maintained by an open community of developers under the auspices of the Apache Software Foundation.

➢ SQL Server:

SQL is Structured Query Language, which is a computer language for storing, manipulating and retrieving data stored in a relational database.

SQL is the standard language for Relational Database System. All the Relational Database Management Systems (RDBMS) like MySQL, MS Access, Oracle, Sybase, Informix, Postgres and SQL Server use SQL as their standard database language.

Also, they are using different dialects, such as-

- MS SQL Server using T-SQL,
- Oracle using PL/SQL,
- MS Access version of SQL is called JET SQL (native format) etc.

➢ CSS:

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.
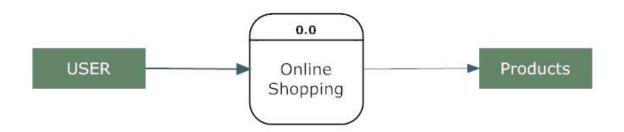
➢ Bootstrap:

Originally created by a designer and a developer at Twitter, Bootstrap has become one of the most popular front-end frameworks and open source projects in the world.

Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS- and JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

4.2 Data Flow Diagram:

4.2.1 Context Level Diagram:

CONTEXT LEVEL DIAGRAM

4.2.2 First Level DFD:

First Level DFD

4.2.3 Second Level DFD:

SECOND LEVEL DFD

5. Progress Till Date

And

The Remaining Work

- <u>Completed Work Of The Project</u>:

1. In "css" folder:
   - ✓ 'main.css' completed
2. "fonts" folder completed
3. "font" folder completed
   - ✓ "css" folder:
     - ‑ 'font-awesome.css' added
     - ‑ 'font-awesome.min.css' added
   - ✓ "fonts" folder completed
4. "images" folder images added
5. "img" folder images added
6. "include" folder:
   - ✓ 'accounts.php' completed
   - ✓ 'autonumbers.php' completed
   - ✓ 'categories.php' completed
   - ✓ 'config.php' completed
   - ✓ 'customers.php' completed
   - ✓ 'database.php' completed
   - ✓ 'function.php' completed
   - ✓ 'initialize.php' completed
   - ✓ 'orders.php' completed
   - ✓ 'products.php' completed
   - ✓ 'promos.php' completed
   - ✓ 'session.php' completed
   - ✓ 'settings.php' completed
   - ✓ 'sidebarFunction.php' completed
   - ✓ 'stockin.php' completed

✓ 'summary.php' completed

7. In "jquery" folder:

   ✓ 'jQuery.js added'

   ✓ 'jquery.min.js' added

   ✓ 'jquery.min.map' added

8. In "js" folder:

   ✓ In 'locales' folder:

      - 'bootstrap-datetimepicker.uk.js' added

   ✓ 'bootstrap-datetpicker.js' added

   ✓ 'bootstrap-datetimepicker.js' added

   ✓ 'bootstrap-datetimepicker.min.js' added

   ✓ 'bootstrap.js' added

   ✓ 'bootstrap.min.js' added

   ✓ 'contact.js' completed

   ✓ 'dataTables.bootstrap.js' added

   ✓ 'dataTables.bootstrap.js' added

   ✓ 'ekko-lightbox.js' added

   ✓ 'ekko-lightbox.min.js' added

   ✓ 'gmaps.js' added

   ✓ 'html5shiv.js' completed

   ✓ 'janobe.js' completed

   ✓ 'jquery.dataTables.js' added

   ✓ 'jquery.dataTables.min.js' added

   ✓ 'jquery.js' added

   ✓ 'jquery.prettuPhoto.js' added

   ✓ 'jquery.scrollUp.min.js' added

   ✓ 'main.js' completed

- ✓ 'price-range.js' completed
9. 'about.php' completed
10. 'banner.php' completed
11. 'cart.php' completed
12. 'contact.php' completed
13. 'home.php' completed
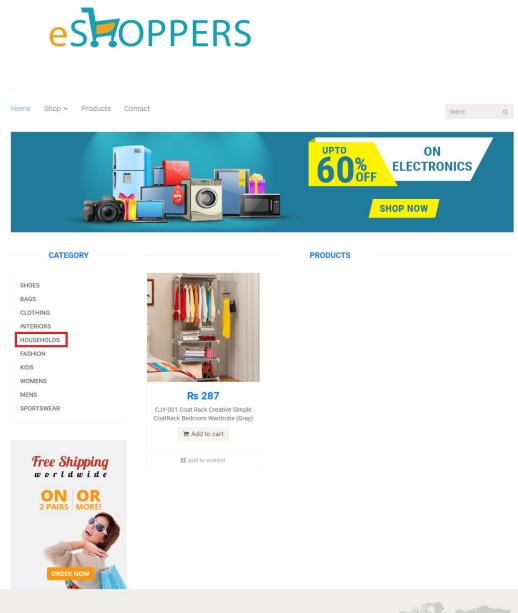
- <u>Remaining Work Of The Project</u>:

    1. Full Backend for the project still to be prepared.

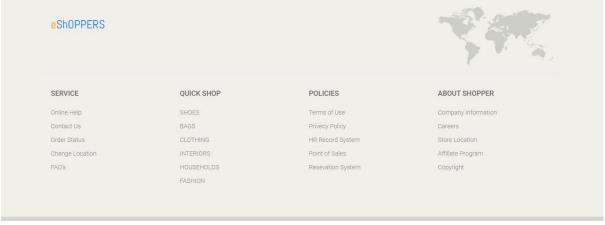   2. Pages for Customer and Admin panel still to be prepared.
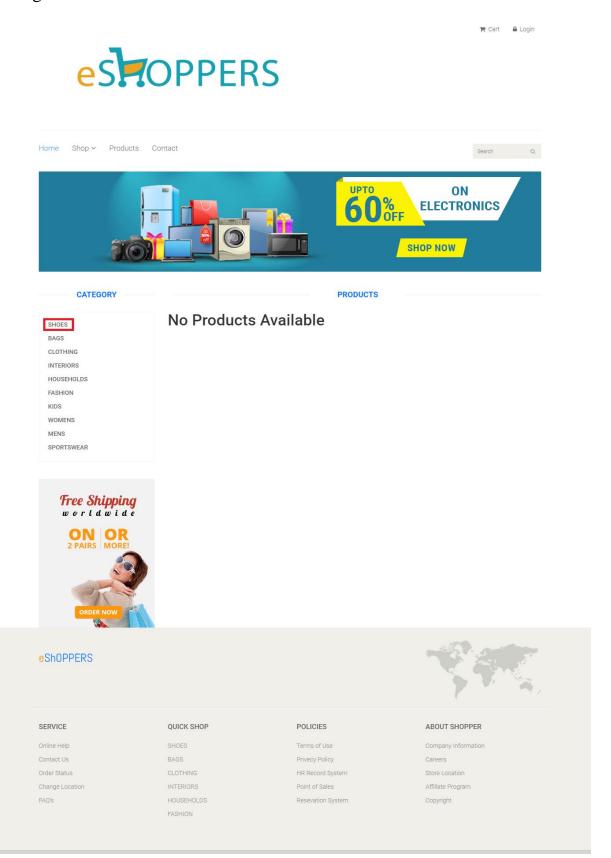
6. <u>Screenshots</u>

- Main page:
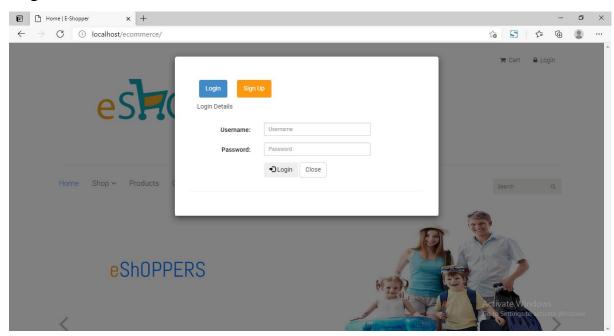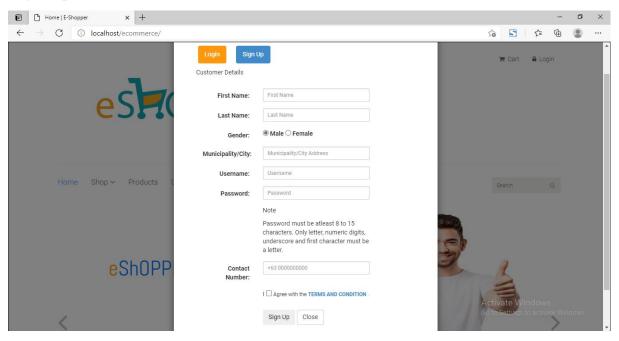
- Category if Available:
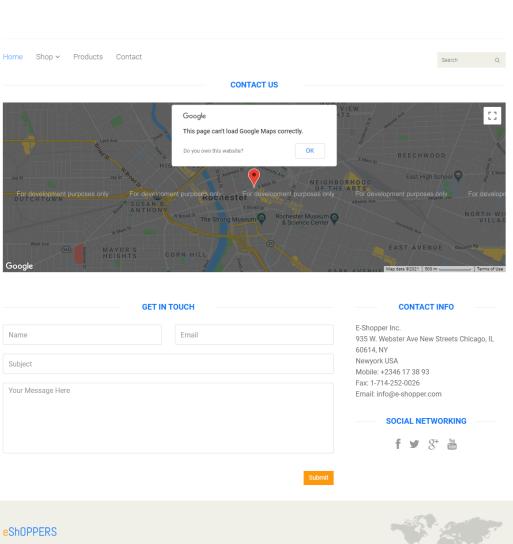
- Categories Item if not available:

- Login Screen:
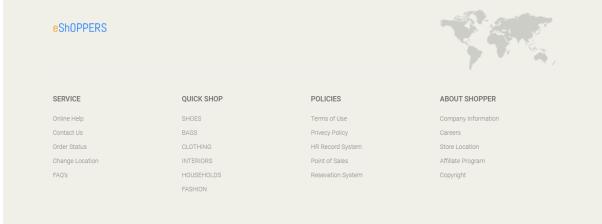

- Sign-Up Screen:

- Contact Us Page:

7. <u>References</u>

I referred to the following resources:

- My ongoing Full-Stack lectures and lab assignments
- Website for Web-development: https://www.beta-labs.in/
- Google search
- YouTube videos
- Website: https://www.w3schools.com/
- Course for Full-Stack Development on Udemy
  - Course name: The Complete 2020 Web Development Bootcamp

    Link: https://www.udemy.com/course/the-complete-web-development-bootcamp/

  Attended By: Pratibha Dixit