Fahion Demand

Online Clothes Shopping Mall

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Abstract—Time to time needs of people is increasing. In the textile field also, peoples' needs are gradually increasing. But with their limitations of time, they don't have much time to go to many shops and do shopping. The Online cloths Shopping 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 for customers. It would make searching, viewing, and selection of clothes easier. It contains varies clothes shops, user's to search for clothes specific to their needs. This application an easy and convenient way of shopping for clothes where a user can shopping in multiple shops at one time in a single place. The user can then view the complete specification of each product. The application also provides a full-featured shopping cart so that a user can easily add products to the shopping cart by dragging the item into the shopping cart. The main emphasis lies in providing a time-saving way to do shopping through the internet.

Index Terms—

✦

1 INTRODUCTION

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ONLINE shopping is a process where customers directly buy goods and services over the Internet. These shops come in various forms such as,online shop, e-store,Internet shop, eShop,web store,web shop,online store or virtual store. With the increase of computer usage and Internet access,online shopping is becoming a more popular way of doing shopping.Travelling to various shops at various places is a costly thing and time consuming. With online shopping, customers can sit at their homes and visit any number of shops, even some located in other countries with ease.Unless the website is down there is no close time for online shops, and customers can take any amount of time to do their shopping. Some online shops provide facilities to rate or add comments about the goods they bought and this feature will be helpful to new customers to make decision about purchasing goods and services.This an experience which traditional shops never provide to their customers.All forms of online systems have to make one important thing.That is making the customer buy their product without physically contacting them.To achieve this, websites must present proper information to customers and most web sites use various methods such as, graphics, animations, and special features like shopping charts, providing statistics and security.

Sri Lanka there are so many dress shops. E.g.- Odel, Kandy, ASB, House of fashion, etc... So, people in Sri Lanka have different opinions when they are going to shopping for clothes. But lots of people spend busy life with their jobs and some of people may be unable to go through shops because of their disabilities. So, they may could not go to the cloths shop and selecting cloths according to their flavor. Other thing is they might be willing to search in many shops or their requirements may not satisfy by visited shop, then they have to visit that shop in another time or visit to another shop. But this cannot be done by who has some sort of

difficuties in their lives. So, this is a dedicated for help to those people and make their lifestyle very easier as well as other people.

In this application, any shop can be registered and uploads their images of dresses with giving the details about particular dress. So, customers can visit to the application and select the shop and dress/dresses according to their flavor and check whether stocks are available or not and then they can visit and buy or delivery to the home.

2 DEVELOPMENT STAGES

Software development cycle is generally divided into following phases.

1) Requirement Analysis
2) Design
3) Development
4) Testing
5) Maintenance

2.1 Requirement Analysis

All the possible requirements of the system to be developed are captured in this phase. Here, the requirement feasibility analysis is done to ensure whether the requirements are feasible or not. In this phase, a Software Requirement Specification (SRS) document is created, containing both functional and non-functional requirements of the software to be developed.

2.1.1 System Feasibility

System Feasibility can be divided into the following sections:

1) Economic Feasibility
   System is economically feasible because its required minimum computer resources in the development process of the system. To user, only required device with internet access.

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2) Technical Feasibility

In development process, these are the minimum technical specifications that are required to develop the application:

Computer with 2GB Ram and 512MB VGA with Windows 7 operating system

Platform:PHP

Server : Phpmyadmin

Database:MYSQL, Front-end:HTML and CSS with bootstrap framework

3) Behavioral Feasibility

The application requires no special technical guidance and all the views available in the application are self explanatory. The users are well guided with warning and failure messages for all the actions taken.

2.1.2 Functional requirements

Considering the specific functions of the system that are dedicated to fulfilling a particular task to satisfy user requirements.such as

Customer

- View shops - View registered shops on the website
- Enter to shops
- View clothes
- Select preference
- Add clothes to shopping cart
- Edit shopping cart
- Order

Shops Owner

- Register the shop
- Add clothes
- Edit details of clothes
- Delete items
- View items

2.1.3 Non-Functional requirements

Functions that are not specific to the system

- Speed - use minimum complexity in order to maximize the speed of the system
- Ease of use - Web UIs and GUIs are useful to users to easily understand the system and control easily.
- Reliability - Passwords has being encrypted when those are entered to the database
- Robustness - System will inform user immediately when their is a failure occurred in the system and gives details about what part of the system that failed.
- Portability - This is a web-base application system. Then can use through any device that can be connected to the internet.
- Size

2.2 Design

2.2.1 Design Goals

- Design the application to have a higher interaction of the customer

- Design the application very efficient with higher speed and higher accuracy
- The design of the web application involves the design of the forms for listing the products,display the complete specification for the product, and design a shopping cart that is easy to use.

2.2.2 Architectural Design

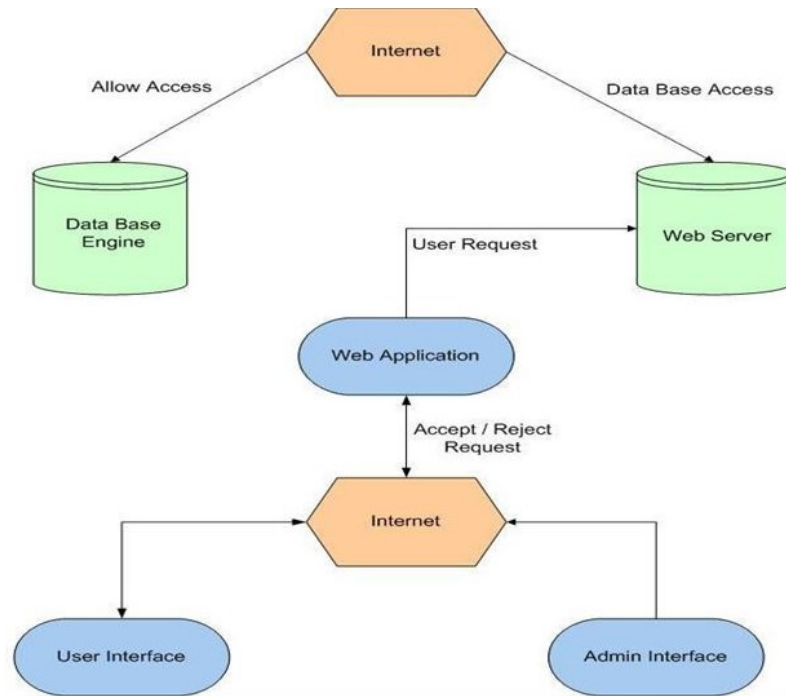Architectural design that is used in the system is shown in below:

Fig. 1: Architectural design of the system.

2.2.3 Use case Diagram

Use case diagram of the system is shown in Fig:2

2.3 Development

The development phase is also known as the implementation phase. In this phase, based on the design documents created in the previous phase, software product is developed. This phase makes use of a development environment, programming language, database etc.to create the software product.

Database was created first and then started to developed coding part. At the beginning sign-in of customer was developed and connected to the data base. Then logging system of the customer created. After that shop owner registration was created and integrated with it the logging of the users. Once shop owners were created, items entering, view and item editing processes were created. After that, gave access to shops and view items to the customers who have signed in to the shops.Unless customer sign into the system, they can not view items in the shops.Shopping cart was developed after all these developments. Shopping cart was created according to get multiple items from multiple shops. Then mail server was created according
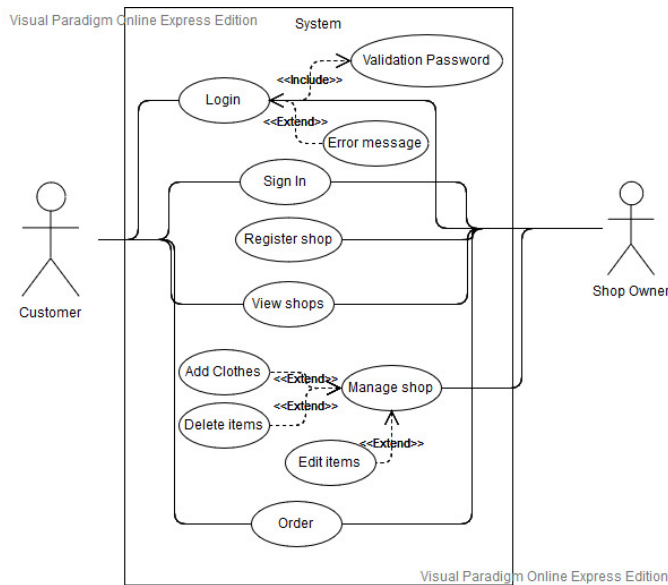
Fig. 2: Use case Diagram of the system.

when customer buy items, that order will be sent to the "Fashion Demand" company.Any customer or shop owner able to shopping through any shop and adding items from multiples shops to the shopping cart. Once company received a mail,one of service provider of company can collect the order from shops then delivered to the customer and take money for particular order. Customer also will receive a mail that contained with the details of the order.Any customer or shop owner able to shopping through any shop and adding items from multiples shops to the shopping cart.

2.4 Testing

In this phase, the software product developed in the previous phase was validated as per the functional and non-functional requirements specified during the requirement gathering and analysis phase.[1]

2.4.1 Unit Testing

Unit testing emphasizes the verification effort on the smallest unit of software design i.e.; a software component or module. Unit testing is a dynamic method for verification, where program is actually compiled and executed. Unit testing is performed in parallel with the coding phase. Unit testing tests units or modules not the whole software.
I have tested each view/module of the application individually. As the modules were built up testing was carried out simultaneously, tracking out each and every kind of input and checking the corresponding output until module is working correctly.
In the sign-in module, all the process were checked. Whether those updates were recorded into the data base correctly. Other thing is customers and users details are saved into the same user table in data base. So if there were any problem occur then it will affect both customers and shop owners. As like this each processes were checked.
Each step contained with proper error messages recovery.If

one unit fail it can be identified using error messages.

2.4.2 Integration Testing

In integration testing a system consisting of different modules is tested for problems arising from component interaction. Integration testing should be developed from the system specification. Firstly, a minimum configuration must be integrated and tested.
In my project I have done integration testing in a bottom up fashion i.e. in this project I have started construction and testing with atomic modules. After unit testing the modules are integrated one by one and then tested the system for problems arising from component interaction.

2.4.3 Validation Testing

It provides final assurances that software meets all functional, behavioral and performance requirement.Black box testing techniques are used.

2.5 Maintenance

In this phase involves making the software live in the production/real environment after it tested for its tested thoroughly in the previous phase and over a period of time a software product may require some updations in order to remain functional in the real-world environment. The maintenance phase also takes care of this activity by timely tuning the software as per the requirement.

3 CHALLENGES

- Main challenge in development process was knowledge that I knew about the web developing.At the beginning i knew nothing about web developing. How to working with HTML,CSS,JavaScript and PHP.[2]
- Learning new technologies like using JavaScript for drag and drop behavior and Ajax[3] toolkit controls with little guidance.
- Maintain security and updates of the application
- Make a application that can control higher traffic
- Identify error that can be occurred naturally and repair those
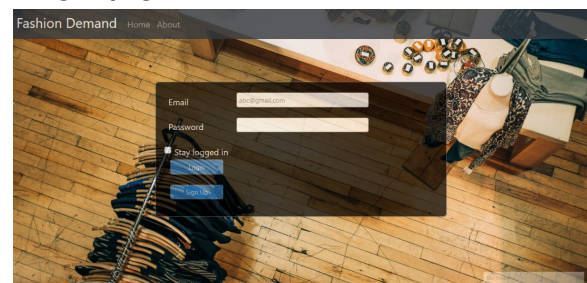
4 GRAPHICAL USER INTERFACE

4.1 Log-in page

Fig. 3: log-in page

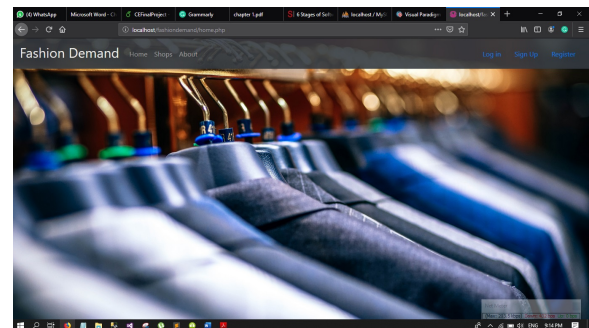## 4.2 Shop Registration page

Fig. 4: Registration

4.3 Shop management interface

Fig. 5: management interface

4.4 Shop management interface

Fig. 6: management interface

4.5 Shop management interface-Edit page

Fig. 7: Edit page

4.6 Home page

Fig. 8: Home page

4.7 Select a shop

Fig. 9: Select a shop

4.8 Sample interface of a shop
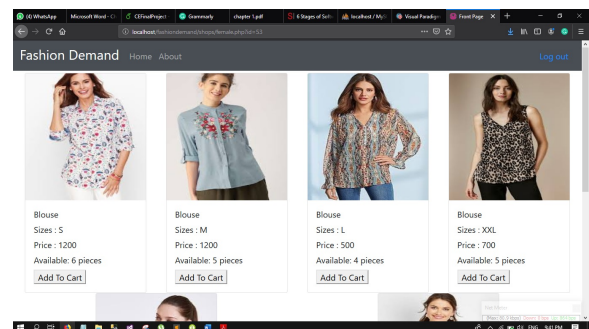
Fig. 10: Sample interface of a shop

4.9 Shopping cart

Fig. 11: shopping cart

LIST OF FIGURES

5 FUTURE DEVELOPMENT

- Add slide show for each and every dress by requiring more than one image of dress. It should be covered whole projection of a dress. Then user can get better idea about the dress
- Integrate with Google maps. Locations of shops and customers can be verified easily.[4]
- Design the website more attractive to the user
- More information about the website should be added to web pages
- Integrate with PayPal and credit card systems

6 CONCLUSION

After having detail study on online shopping,We can see a great change in the behavior of people in many mananers like their attitude,buying pattern.In earlier times people use to do manual shopping bt now as time chnged,people are becoming busy and due to which technology has brought a new revolution i.e. online shopping.

ACKNOWLEDGMENTS

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