“Online Fashion House”: A WEB BASED APPLICATION

By
Md Jahangir Alam
ID: 172-15-10046

Saidur Rahman Bhuyian
ID: 172-15-9928

Bably Khan
ID: 172-15-9951

This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering.

Supervised By:

Md. Azizul Hakim
Lecture
Department of CSE
Daffodil International University

CO-Supervisor By

Ms. Rubaiya Hafiz
Sr. Lecture
Department of CSE
Daffodil International University

DAFFODIL INTERNATIONAL UNIVERSITY
DHAKA, BANGLADESH

July 2020

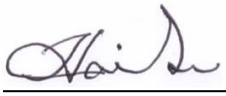
© Daffodil International University

APPROVAL

This Project titled **Online Fashion House**, submitted by **Md Jahangir Alam** and **Saidur Rahman Bhuyian** and **Bably Khan** to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering (BSc) and approved as to its style and contents. The presentation has been held on *09/07/2020*.

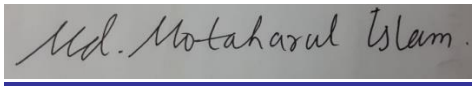
BOARD OF EXAMINERS

Dr. Syed Akhter Hossain — **Chairman**
Professor and Head
Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University



Dr. Sheak Rashed Haider Noori — **Internal Examiner**
Associate professor &Associate Head
Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Md. Zahid Hasan — **Internal Examiner**
Assistant Professor
Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University



Dr. Md. Motaharul Islam — **External Examiner**
Professor
Department of Computer Science and Engineering
United International University

© Daffodil International University

DECLARATION

I hereby declare that, this project has been done by us under the supervision of **Md Azizul Hakim, Lecturer, Department of CSE** Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere forward of any degree or diploma.

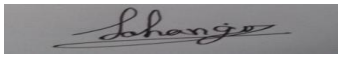
Supervised by:

Md Azizul Hakim
Lecturer
Department of CSE
Daffodil International University

Co-Supervised by:

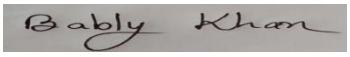
Rubaiya Hafiz
Lecturer (Senior Scale)
Department of CSE
Daffodil International University

Submitted by:



Md Jahangir Alam
ID: -172-15-10046
Department of CSE
Daffodil International University

Saidur Rahman Bhuyian
ID: -172-15-9928
Department of CSE
Daffodil International University



Bably Khan
ID: -172-15-9951
Department of CSE
Daffodil International University

© Daffodil International University

ACKNOWLEDGEMENT

First, we express our heartiest thanks and gratefulness to almighty God for his divine blessing make us possible to complete the final year project successfully.

We are grateful and wish my profound my indebtedness to **Md Azizul Hakim**, Lecturer Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field "web design and development" to carry out this project. His endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts and correcting them at all stage have made it possible to complete this project.

We would like to express our heartiest gratitude to Prof. Dr. Syed Akhter Hossain, Head**,** Department of CSE, for his kind help to finish our project and also to other faculty member and the staff of CSE department of Daffodil International University.

Finally, we must acknowledge with due respect the constant support and patients of my parents, without them any of my work wouldn't happen.

© Daffodil International University

ABSTRACT

In today's fast-changing business environment, it's extremely important to be able to respond to client needs in the most effective and timely manner. If your customers wish to see your business online and have instant access to your products or services.

Online Shopping is a lifestyle e-commerce web application, which retails various fashion and lifestyle products. This project allows viewing various products available enables registered users to purchase desired products instantly using mobile Banking payment processor (Instant Pay) and also can place order by using Cash on Delivery (Pay Later) option. This project provides an easy access to Administrators and Managers to view orders placed using Pay Later and Instant Pay options.

In order to develop an e-commerce website, a number of Technologies must be studied and understood. These include multi-tiered architecture, server and client-side scripting techniques, implementation technologies such as PHH, programming language (such as Laravel Framework) and relational databases MySQL. This is a project with the objective to develop a basic website where a consumer is provided with online shopping website and also to know about the technologies used to develop such an application.

© Daffodil International University

TABLES OF CONTENTS

CONTENTS:	PAGE
Declaration	iii
Acknowledgements	iv
Abstract	v
Table of contents	vi
List of figures	viii
List of tables	ix
CHAPTER	
Chapter 1: Introduction	
1.1 Introduction	1
1.2 Motivation	1
1.3 Objectives	1
1.4 Expected Outcome	2
1.5 Report Layout	2
Chapter 2: Background	
2.1 Introduction	3
2.2 Related Works	3
2.3 Comparative Studies	3
2.4 Scope of the Problem	4
2.5 Challenges	4
Chapter 3: Requirement Specification	
3.1 Business Process Modeling	5
3.2 Requirement Collection and Analysis	5
3.3 Use Case Modeling and Description	6
3.4 Logical Data Model	7
3.5 Design Requirements	8

© Daffodil International University

Chapter 4: Design Specification

4.1 Front-end Design 9

4.2 Back-end Design 13

4.3 Interaction Design and UX 16

4.4 Implementation Requirements 17

Chapter 5: Implementation and Testing

5.1 Implementation of Database 18

5.2 Implementation of Front-end Design 20

5.3 Implementation of Interactions 21

5.4 Testing Implementation 21

5.5 Test Results and Reports 22

Chapter 6: Conclusion and Future Scope

6.1 Discussion and Conclusion 23

6.2 Scope for Further Developments 23

References **24**

Appendices 25

Appendix A: Project Reflection
Appendix B: Related Diagram

© Daffodil International University

LIST OF FIGURES

FIGURES

Figure 3.1.1: Business process model 14

Figure 3.3.1: Use case Symbol 15

Figure 3.3.2: Use case Diagram for online shopping 16

Figure 3.4.1: Logical data model diagram 17

Figure 4.1.1: Home page for Smart online Fashion House 19

Figure 4.1.2: login page for customer 19

Figure 4.1.3: Register page for customer 20

Figure 4.1.4: Cart page for Smart Online Fashion House 21

Figure 4.1.5: Product details page 21

Figure 4.2.1: login page for admin 22

Figure 4.2.2: Add product page 22

Figure 4.2.3: Manage Product page 23

Figure 4.2.4: Add category page 23

Figure 4.2.5: Category Manage page 24

Figure 4.2.6: Add brand page 24

Figure 4.2.7: Brand Manage page 25

© Daffodil International University

LIST OF TABLES

Tables

Table 5.1.1: Database table	27
Table 5.1.2: Register user table	28
Table 5.1.3: Category Table	28
Table 5.1.4: Brands Table:	29
Table 5.4.1: Test implementation table	30

© Daffodil International University

CHAPTER 1

INTRODUCTION

1.1 Introduction:

As an acknowledged and used market model, e-commerce is rapidly gaining ground. Increasing business firms are introducing a web platform that offers tools for trading on the internet. It is wise to assume that the online shopping process is now becoming commonplace.

The goal of this project is to build a general-purpose e-commerce stores where product like clothing can be purchased over the Internet from the comfort of the home. However, this project will deal with an online shopping for clothes for implementation purposes.

An online shop is a virtual marketplace on the Internet in which consumers can pick items of interest and search the catalog. You will pick the chosen items in your shopping cart. The products are viewed as an order while filling in the shopping cart. In order to complete the transaction, more detail would then be needed. The customer is usually asked for a billing address, shipping address, shipping option and mobile banking system payment information. The customer is sent a message on placing the order.

1.2 Motivation:

The Boston Computer Exchange, a company for used computers founded in 1982, was a first example of other electronic enterprises with physical products. The American Data Exchange, another electronic pre-Internet network launched in 1991, became an early internet knowledge exchange, offering online consultation.

The Web became popular all over the world around 1994 when internet shopping started. Privacy protocols and DSL were implemented in about five years, providing uninterrupted Internet connectivity. At the end of 2000, many businesses in Europe and America began providing their services across the World Wide Web. Since then, it has been correlated with the willingness, through secure protocols and online payment systems, to buy specific products over the internet. [1]

1.3 Objectives:

The key goals of the online shop growth are as follows:

1. Details on various items in various electronic categories should be available online.
2. Items can be ordered online by the consumer.

© Daffodil International University

3. Customers will login and collect specific product details and purchase the correct product.
4. Therefore, the online shop must have safe transactions, and customers can pay electronically.
5. Privacy security at the storage level is maintained at a fairly high level to ensure that sensitive consumer information is not made accessible through approved usage.

1.4 Expected Outcome:

- The main goal of this project is to sell cloths in a website.
- It will help people to get find any kind of cloths for name and women any time anywhere in place.
- Register user easily order product with payment.
- Non-Register user add product in cart and after register they order product.
- For any problem people contact with us and comment on product feedback.

1.5 Report Layout:

In Chapter (1): We defined project target and our project encouragement.

In Chapter (2): The history of the project is mentioned in Chapter 2.

In Chapter (3): We explained in chapter 3 the necessary requirement such as use case model, BPM model and design requirement.

In Chapter (4): in chapter 4 we've showed the front & backend design and implementation criteria.

In Chapter (5): in chapter5 we described the deployment of testing code and database

In Chapter (6): finally, in chapter 6 we described conclusion of this project and scope of future development.

At last of the report, we provide the related reference to ensure that the information in the report that must be correct

CHAPTER 2

Background

2.1 Introduction:

We are living in a world of creation. We have to stick with the world today. But people want to purchase stuff online now, as well. There are many approaches to get this. Most of people of the world in this world are educated, they know about technology. Day by Day people are dependent on online. For this motivation we take a chance to make it easy for all over the world.

Our online Smart Fashion House platform aims to sell men, women and children a wide range of clothing. User search any kinds of clothes product like Man fashion, women Fashion and kid products.

2.2 Related Works:

It is a fascinating experience to our nation that many programmers have already produced a limited number of similar websites that are familiar to other people. There are some websites such as "www.daraz.com.bd" and "www.evaly.com.bd," where any product can be found. The customer will look for all apparel for men and women by using our website. People payment on mobile banking system and cash on delivery. [2],[3]

2.3 Comparative Studies:

There are many websites related E-Commerce of Bangladesh. Those sites are helpful for people. We think we want to offer these features along with additional features, such as brand-wise products and wise product categories. People easily find clothes in our site. People easily make payment in our site.

We tried to create a lovely website that would be helpful to many people. Users will find details of about us & contact us. The streamlined design of the web would allow only the simple and required steps to perform a task that will be more effective.

2.4 Scope of the Problem:

1. Validation of the credit card is not completed. Third-party specialized tools can be used for verification tests.
2. Not everyone can access the Website. This can be installed on a web server so that anyone with an internet connection can use it.

2.5 Challenges:

Responsive templates have been around for quite a few years. The average e-commerce website experiences about 60% of its organic traffic from mobile phones. There simply is no excuse left for business owners to not opt for a mobile-optimized design unless you are experiencing a lack of expert guidance. Without an experienced team of ecommerce website development experts, it will be difficult to create a responsive website.

- Creating mobile ready websites that are fast and navigation friendly.
- Rendering data tables on small screens of varying sizes.
- Rearrangement of dynamic designing elements for devices of different dimensions.
- Prolonged designing, testing and developing periods.

E-commerce sites often forget to pay attention to their quality of website content. However, that seems to be a persistent problem among sites that are not ranking well in spite of offering excellent products, offers, and promotions. Direct product-based marketing is not cutting it anymore. E-commerce sites need to emphasize on genuine content as much as other websites to rank better in the Google SERPs.

Your e-commerce site needs a strong keyword game. Almost all websites are facing the need for a dedicated content team that can provide them with fresh, original and informative content. In fact, a great content strategy can always remain a potential for your upcoming content marketing campaigns. Designing rewarding content that appeals to both search engine bots and human readers is often a challenging task for webmasters.

CHAPTER 3

Requirement Specification

3.1 Business Process Modeling:

Throughout systems engineering, the following diagram 3.1 Business Process Modeling (BPM) is the task of describing a company's processes so that the actual operation can be evaluated or enhanced. BPM is usually traditional market analysis with field expertise; subject matter specialists with advanced modeling understanding; or more generally by a group including both. Optionally, the business model can be taken directly from the records of events utilizing data mining software. [4]

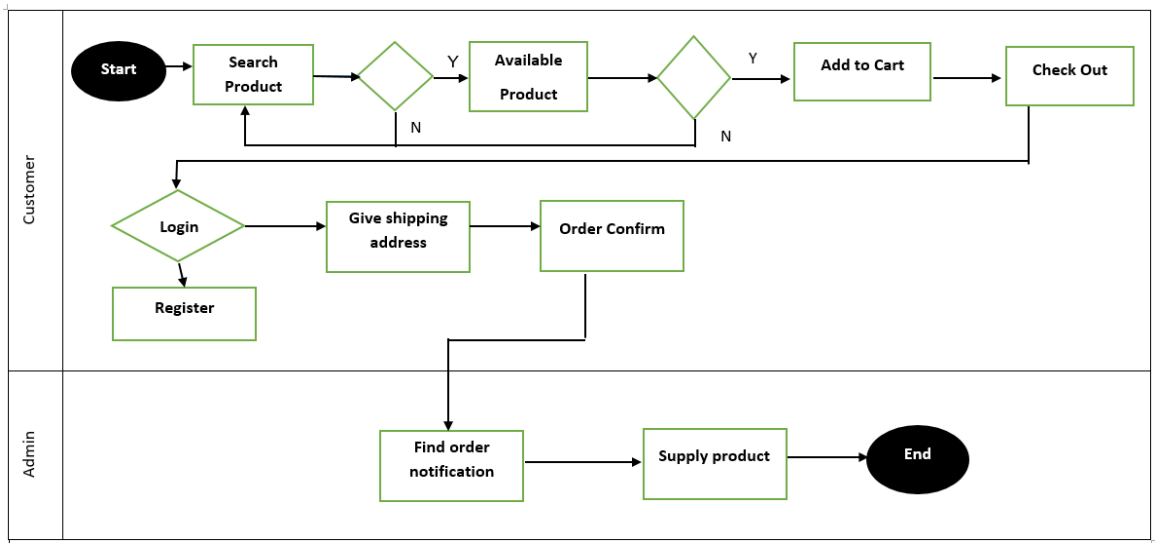


Figure 3.1.1: Model of business process

3.2 Requirement Collection and Analysis:

Each business institution wants quality processes in the current competitive scenario to increase its performance as well as boost its competitiveness. It is vitally important to simplify manual, time consuming & monotonous activities to streamline an organization's function. Since, the current method (manual job) needs more computing time and manpower. Bearing this business strategy in mind (mantra) we suggest an online store.

3.3 Use Case Modeling and Description:

A use case is a collection of scenarios which characterize a user-system interaction. A case management diagram shows the relationship between actors and use cases. Use cases and characters are the two central elements of a Use case model.

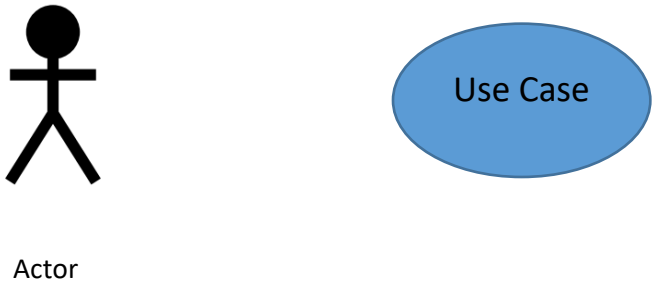


Figure 3.3.1: Use case Symbol

An actor represents a customer or other entity that communicates with the modeling framework you are using. A use case is an outside viewpoint of the program, which reflects any action that the user may take to complete a mission.

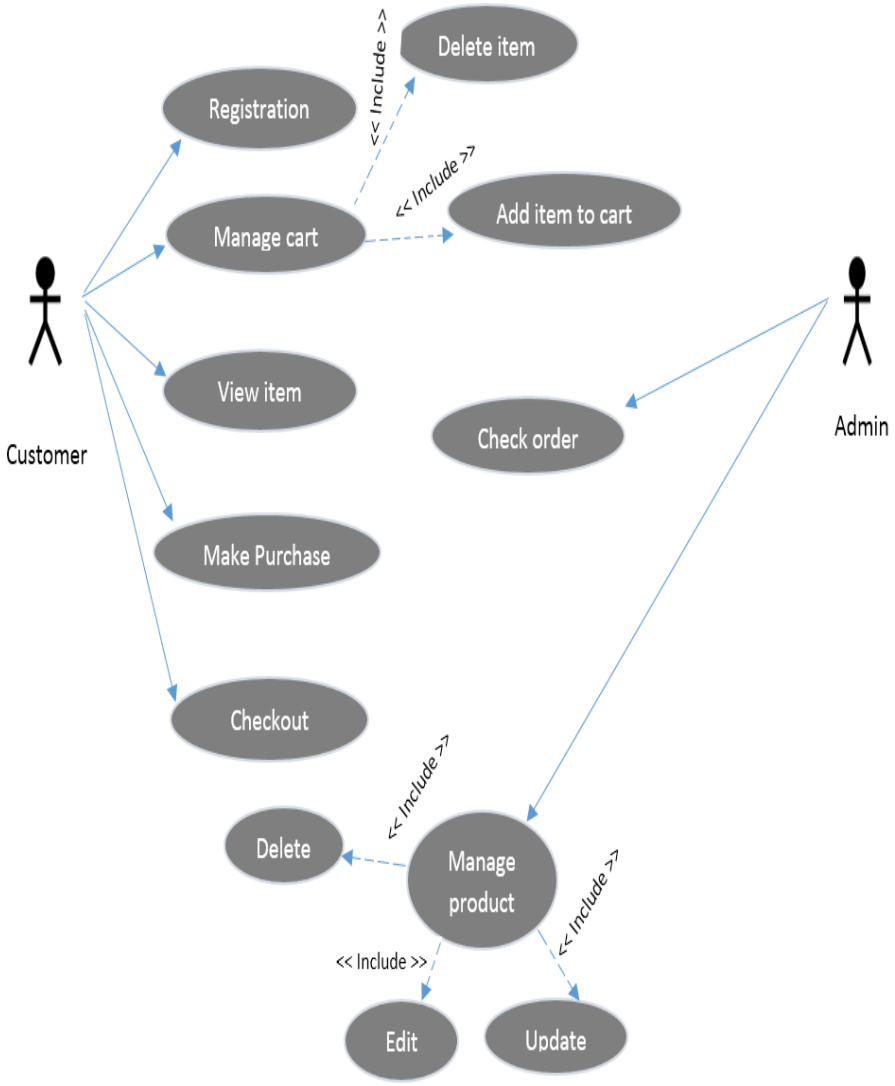


Figure 3.3.2: Use case Diagram for Smart online Fashion House

3.4 Logical Data Model:

A logical data diagram offers a schematic overview of an information system's structure, which lets you evaluate the data system configuration through persons which relationships.

Figure 3.4.1: Diagram of Logical data structure

3.5 Design Requirements:

Font end and back end Design:

1. Here the system is basically will use all public user. Registered user order product.
2. All user add product in cart.
3. Any one search a product who they want.
4. Admin maintain all access.
5. Admin login backend site and manage all.
6. Comments from consumers of each product.

CHAPTER 4

Design Specification

4.1 Front-end Design:

Basically, front end worked on the presentation layer. The front end is the most crucial part in web-based system development. The front end is however classified as field on the customer side. Web production at the front end, also defined as customer-side production, is the process of creating HTML, CSS, and JavaScript for a website or web application such that a user can easily access and communicate with it. The developers build elements and functionality which a user accesses indirectly via a front-end application or program. This is the method the clients communicate with the servers. The most critical element is designing the front-end of most field of software development. To communicate with the app quickly, we developed a simple front-end interface for the clients. Here are some of the front-end designs:

- Home page
- Login page
- Register page
- Category wise product page
- Brand wise product page
- Cart page

1. **Home page:** The Home Screen will compose of a page where one can search through the items we have on our website, the whole website is completely open and responsive, which ensures that in certain apps and devices that can be accessed.

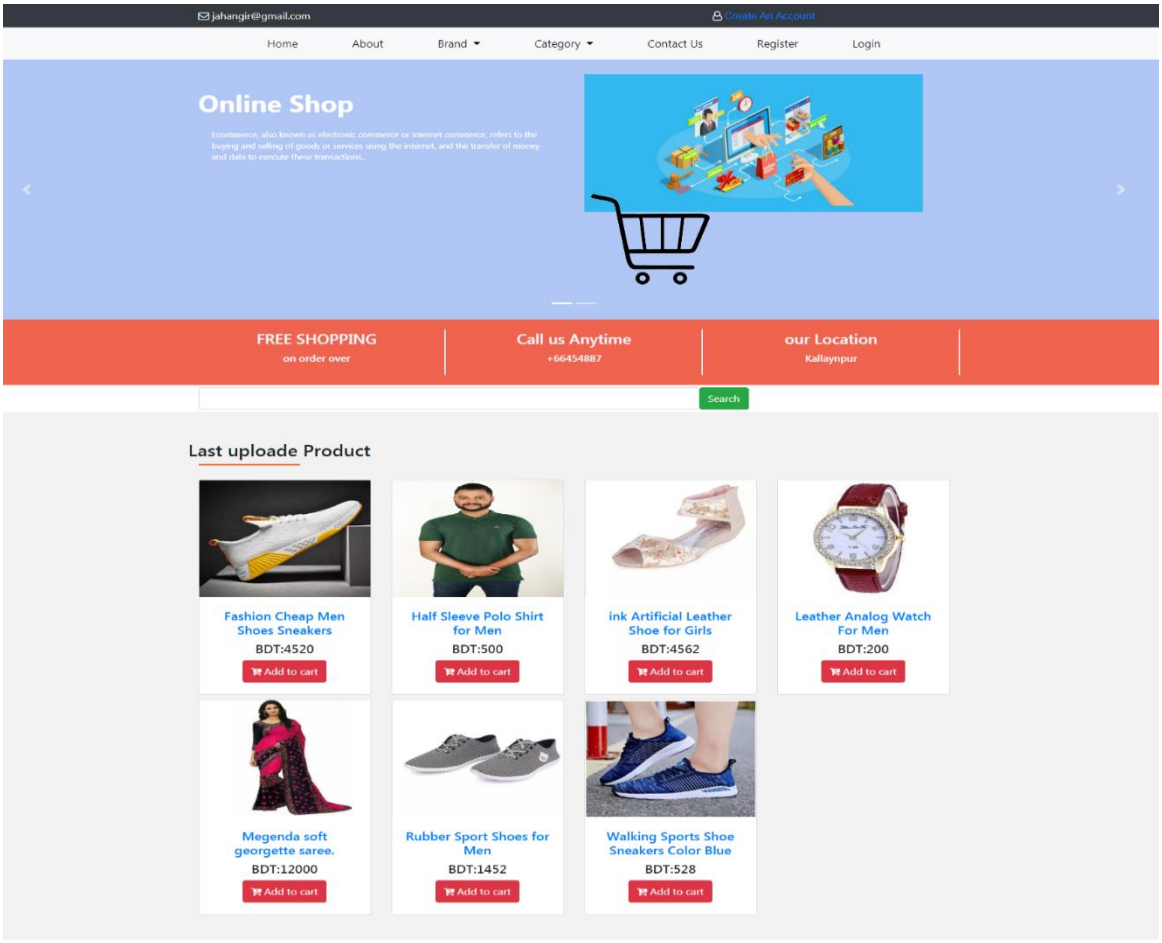


Figure 4.1.1: Home page for Smart online Fashion House

2. **Login page:** This is our site's page which includes all of the standard login page format:

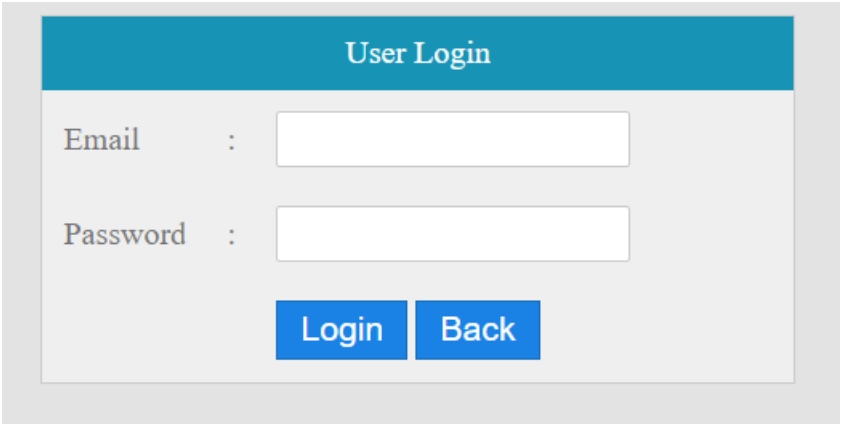


Figure 4.1.2: Customer's login page.

3. **Register Page:** This is the page of our site which contains customer fill up this information for register for order product.

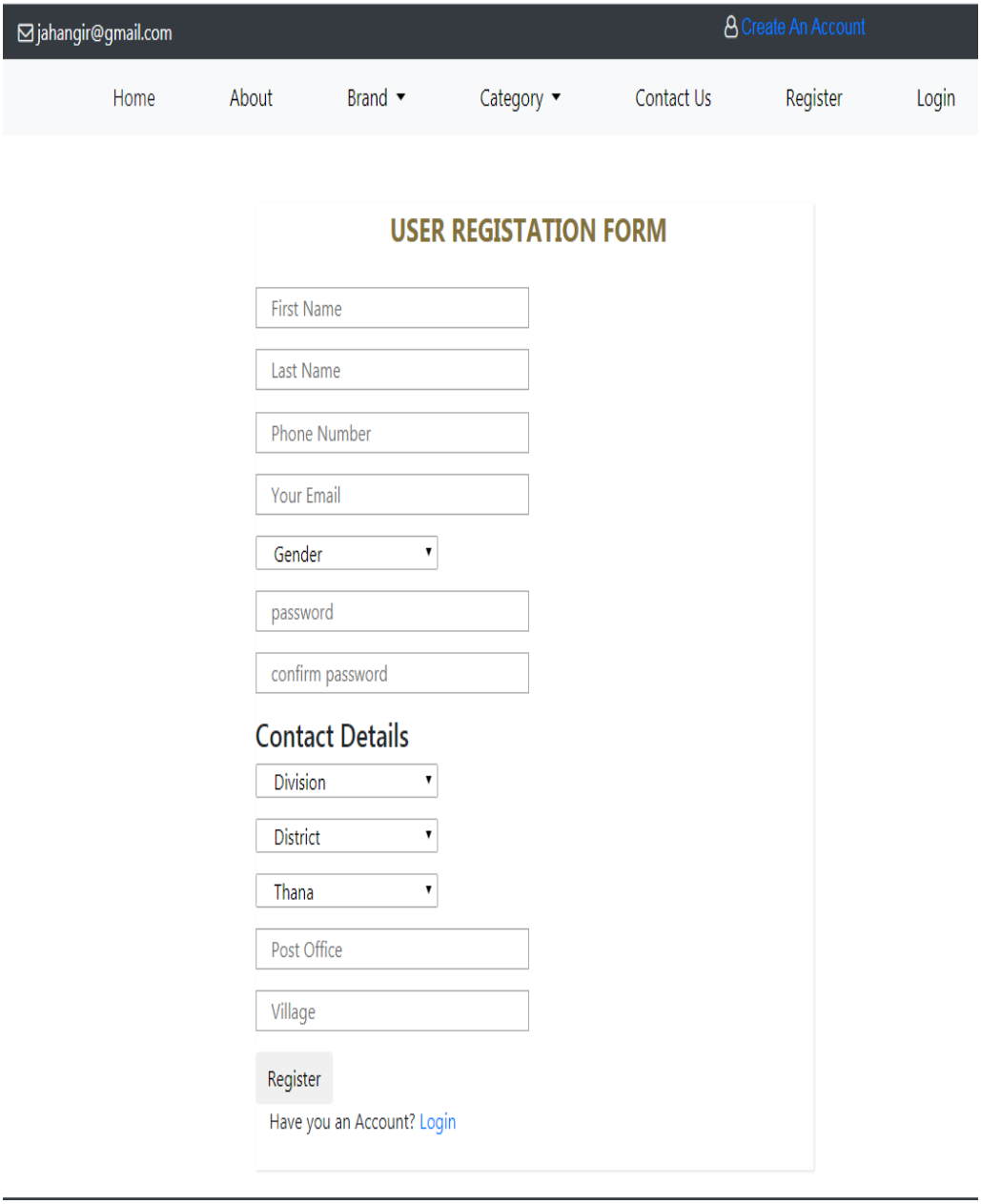


Figure 4.1.3: Register page for customer

4. **Cart Page:** This is the page of our site which contains customer add product in cart after customer see this cart page.

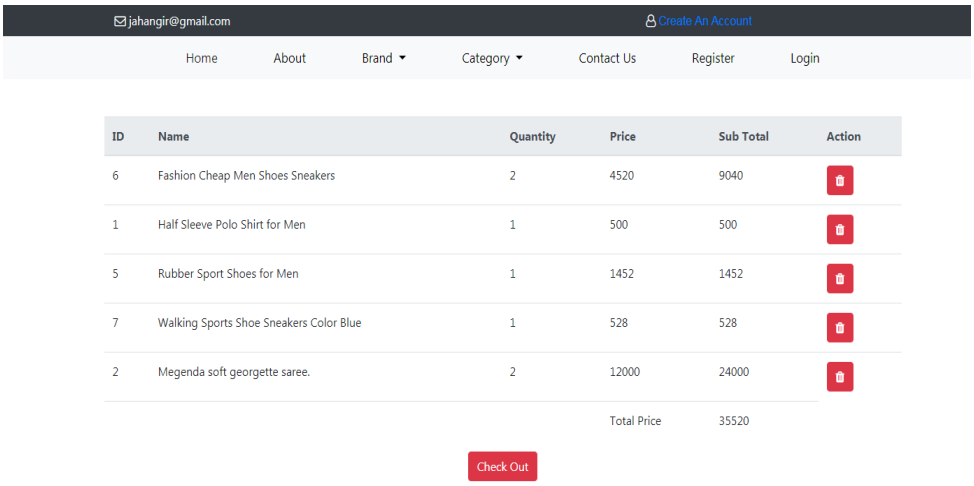


Figure 4.1.4: Cart page for Smart Online Fashion House

5. **Details product page**: This is the page of our site which contains customer can see the details of product.

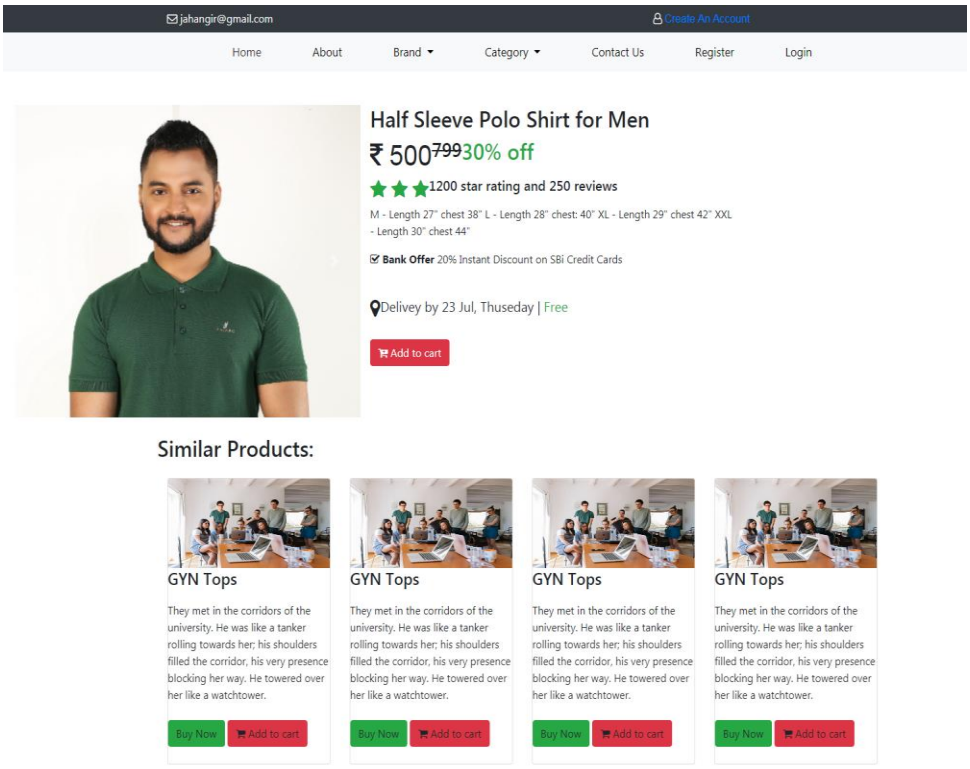


Figure 4.1.5: Product details page

4.2 Back-end Design:

1. **Admin Login page:** This is our website page which contains all of the Admin login page's basic format.

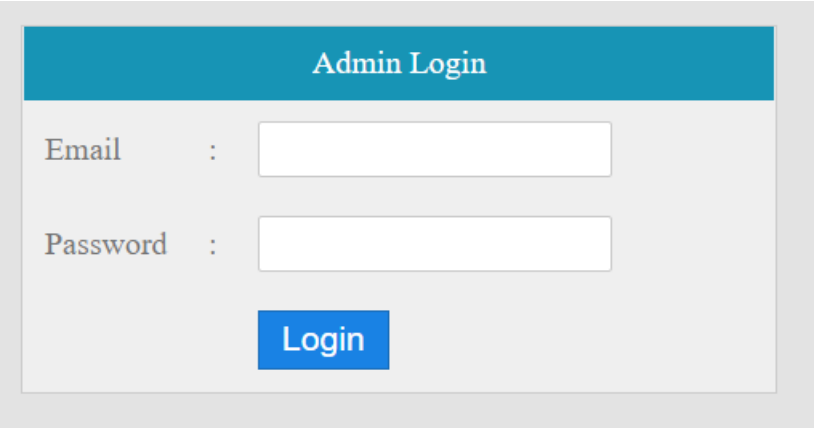


Figure 4.2.1: Admin's login page.

2. **Add Product Page:** This is the page of our site which contains admin add product after login.

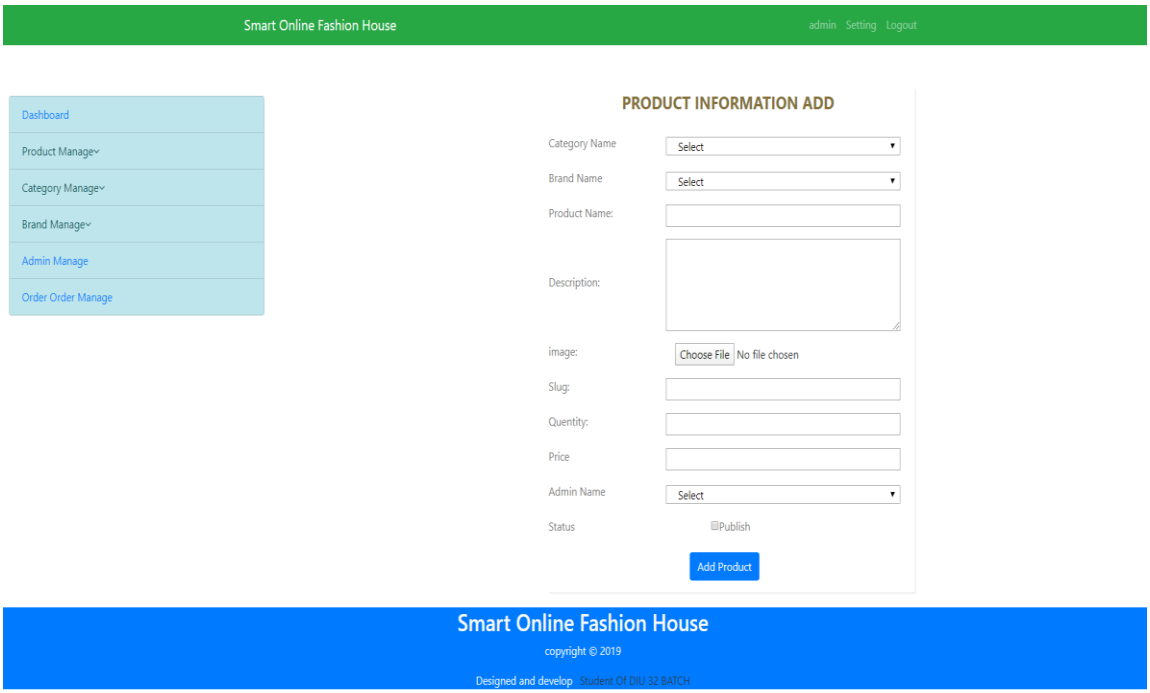


Figure 4.2.2: Add product page

3. **Product Manage Page:** This is the page of our site which contains admin update, delete and active all product after login.

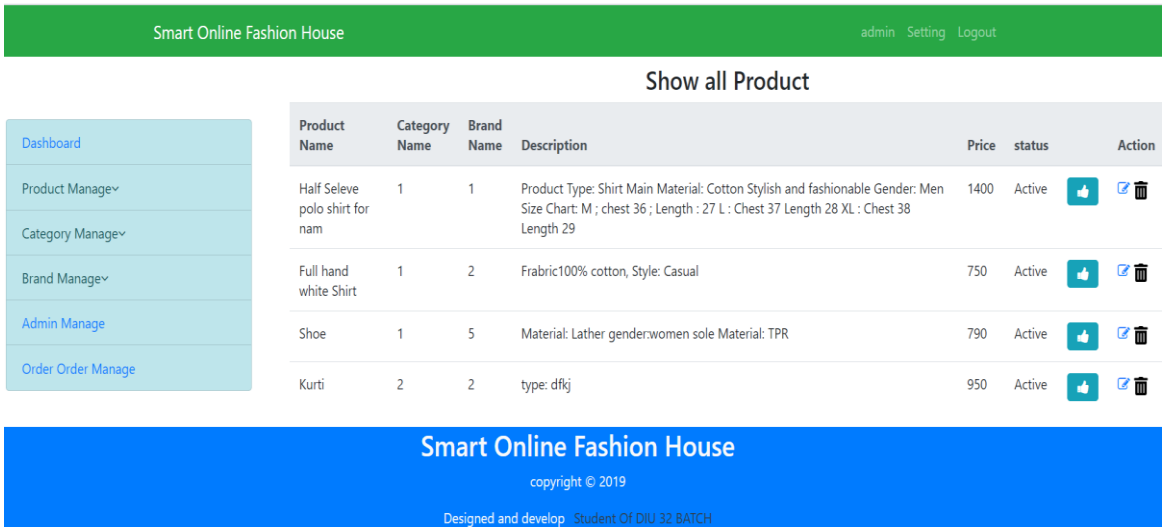


Figure 4.2.3: Manage Product page

4. **Add Category Page:** This is the page of our site which contains admin add Category after login.

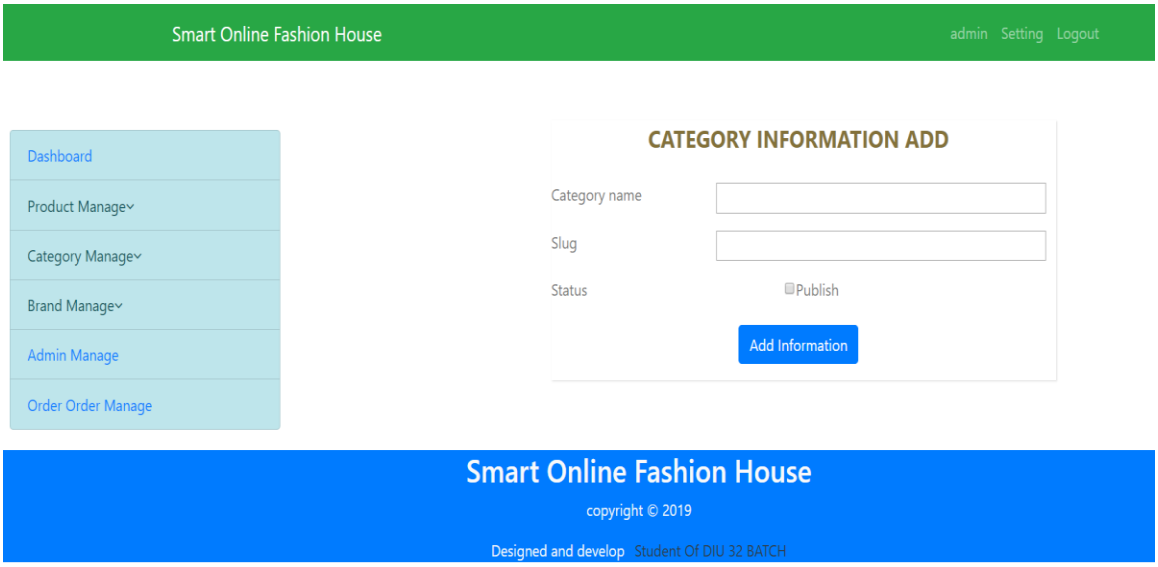


Figure 4.2.4: Add category page

5. **Category manage page:** This is the page of our site which contains admin update, delete and active product after login.

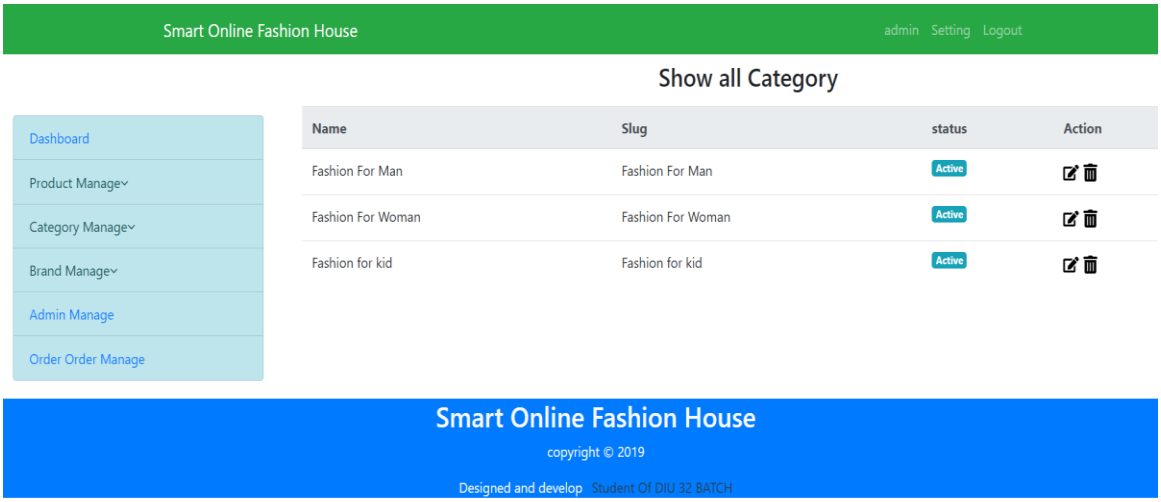


Figure 4.2.5: Category Manage page

6. **Add brand page:** This is the page of our site which contains admin add brand after login.

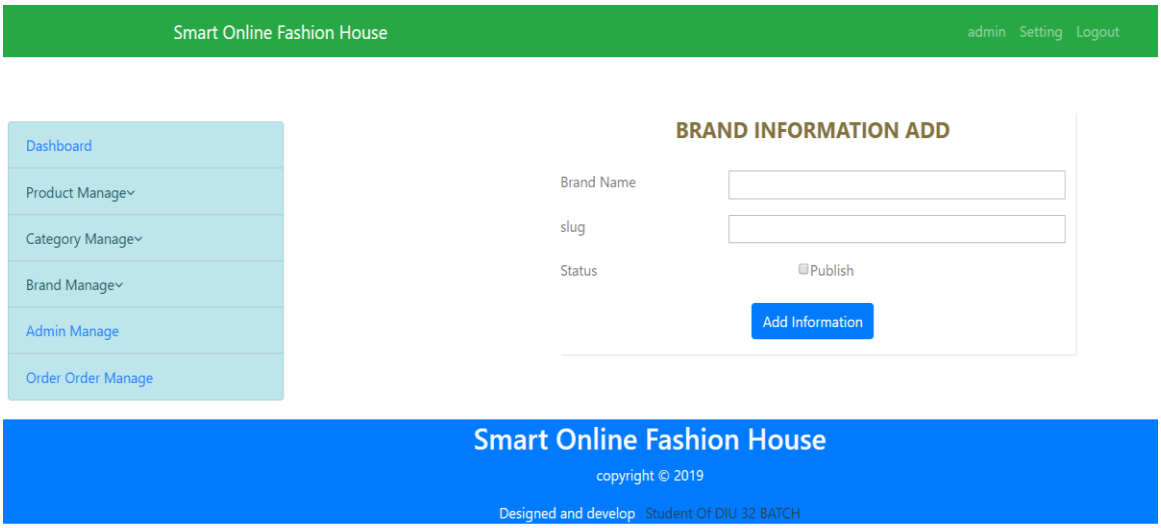


Figure 4.2.6: Add brand page

7. **Brand Manage page:** This is the page of our site which contains admin update, delete and edit product after login.

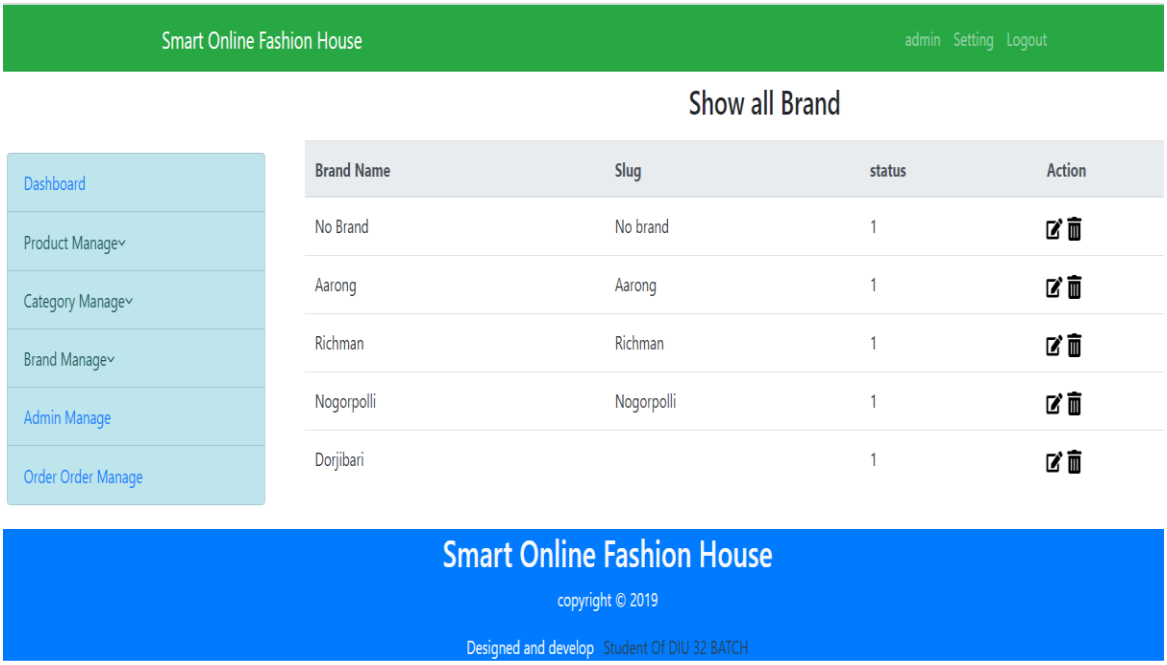


Figure 4.2.7: Brand Manage page

4.3 Interaction Design and UX:

We've built this web application in this section using the amazing bootstrap platform & font awesome. These two helps us build the right eyepiece for consumers and it's conservative in other ways as well. The method of prolonging consumer satisfaction with a product by maximizing the responsiveness, functionality, and pleasure generated through the product experience. Designers concentrate on designing interactive User interfaces with rational attitudes and acts that are thought out. The effective interface design makes use of technologies and strong communication concepts to create ideal user interfaces. [5]

4.4 Implementation Requirements:

In our system we just use some technology to develop, those are:

- Markup language: HTML 5
- Design: CSS
- Programming / Scripting Language: PHP, JavaScript (JS), jQuery
- Database: MySQL
- Framework for design: Bootstrap
- Framework for development: Laravel
- Icons are collected from: Font awesome.

CHAPTER 5

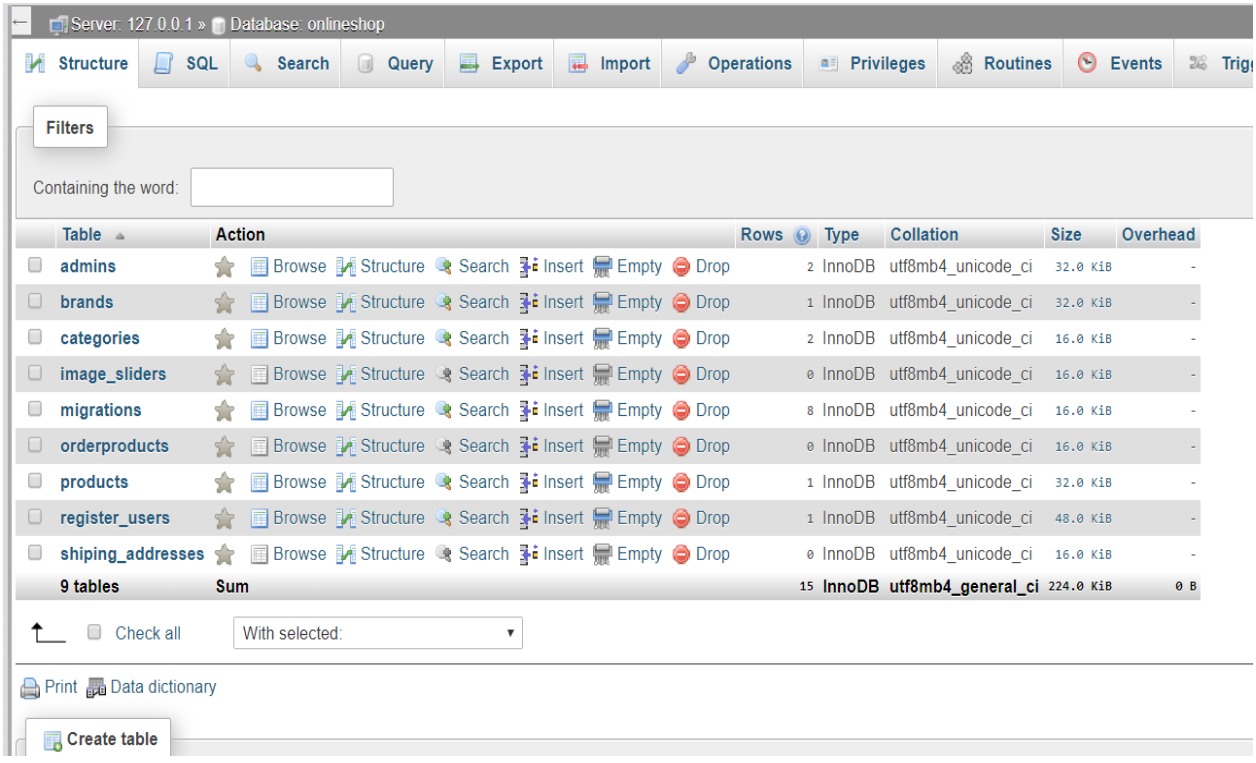
Implementation and Testing

5.1 Implementation of Database:

Because of using Raw PHP and MySQL we made the migration table which describes the contents' attribute and the data types. There is no direct SQL query required to perform acts because the MySQL, the model controller the database, so. The data will be checked in the model to see whether the user has authorization to enter the data directly into the database. We used PHP my admin for DBMS.

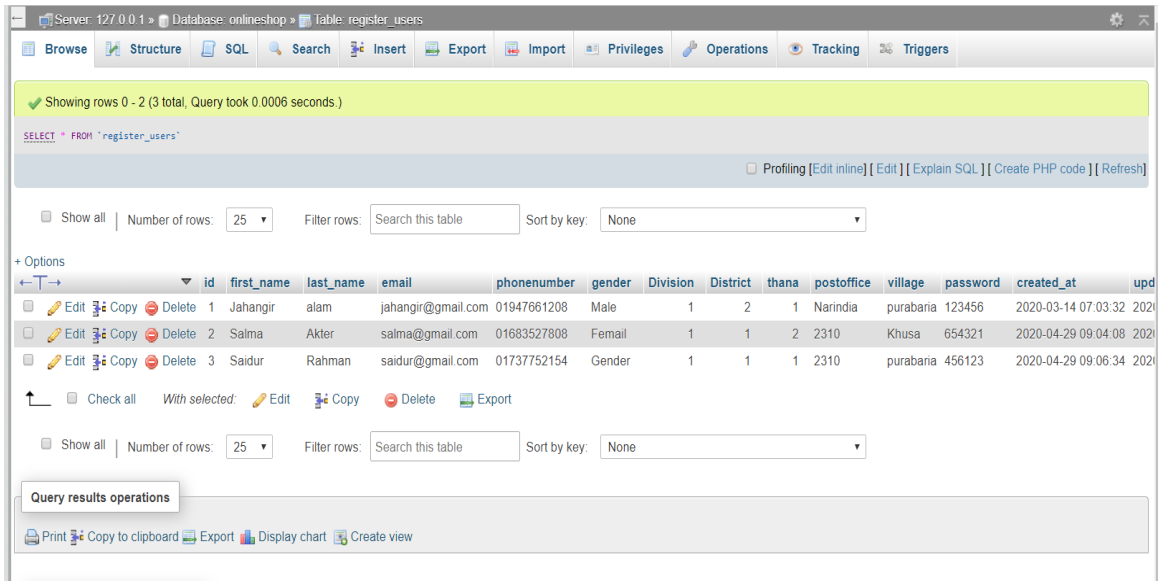
Database tables are:

Table 5.1.1: Database table



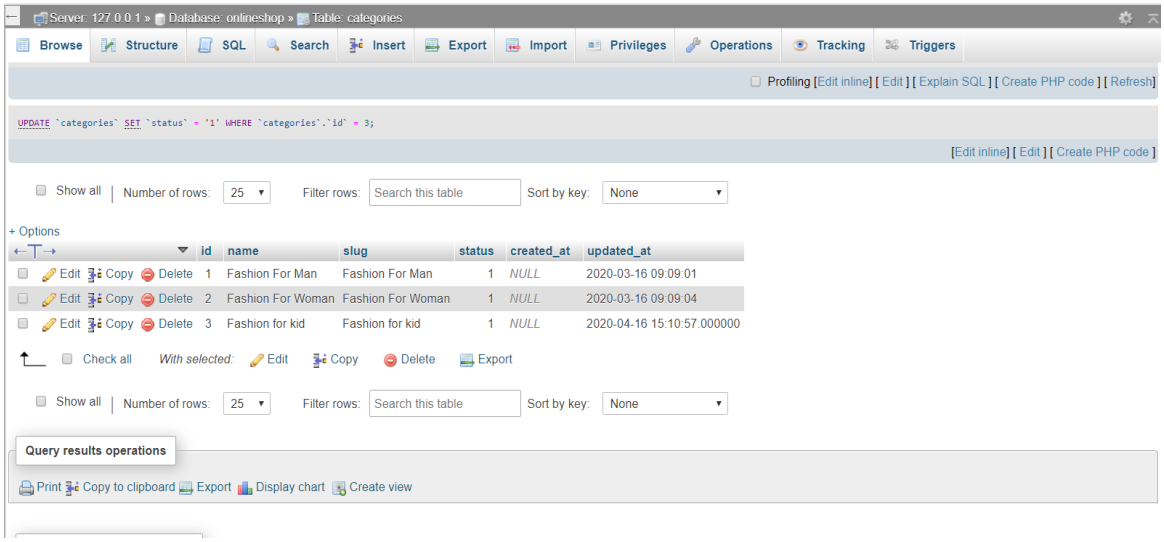
Register user table:

Table 5.1.2: Register user table



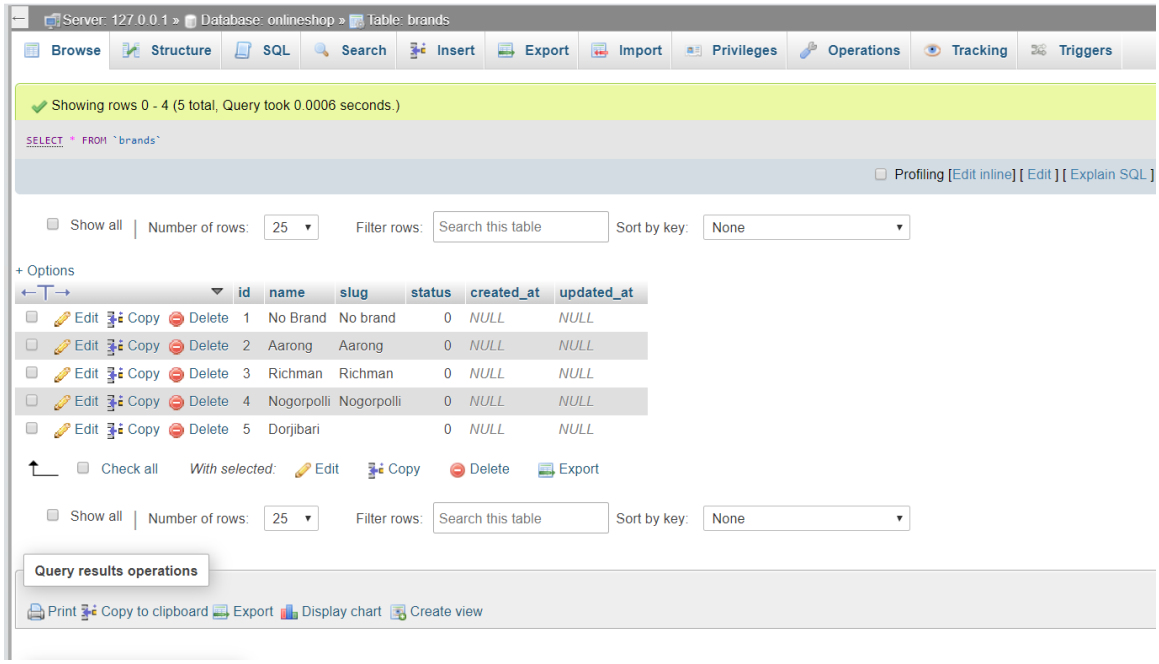
Category table:

Table 5.1.3: Category Table



Brands table:

Table 5.1.4: Brands table



5.2 Implementation of Front-end Design:

Since there are so many browsers available in the market, so the plan ought to be characterized in no time including key part of the framework. Developing a pretty front-end interface is really difficult. Since, for all devices such as smart mobile apps, phones, smartphone, laptop and 4k screen etc. to build a specification. We still strive to be straightforward in UI design for interactive applications, and seek some material design to make the application gorgeous. Perhaps the most difficult thing is to keep our framework independent of the user, since there are many types of smartphones that support android, some of which have very week-long headwear modules, and these apps behave like strange under limited strain. Beyond different device can be different in version. So, we have to design a system which can support all the devices and we have to ensure that, the system that support most of the android version from newer to older and doesn't create any extra pressure on the devices. We make our website accessible so that consumers with a small size of the website can access and connect easily from various devices. With the support of technology such as HTML, CSS, JavaScript and jQuery, we make graphical UI correlative and normal.

Here is the given some Implementation of front-end design:

- There would be two user groups, Administrators and Users.
- When user check out order he must login.
- Administrators can use their registered email address and password to login.
- Users can use their registered email address and password to login.
- One must need to login if he wants to checkout his / her cart.

5.3 Implementation of Interactions:

We've introduced attentive UI here to render our application (Smart Online Fashion House) for a better user experience. In those cases, we use the symbol, text connection, and button to make it simple. The system design of our web software is easy to use. Our technology is applied effectively and our application's contact with the users is very good.

5.4 Testing Implementation:

This table shows the testing implementation of this application. As a developer we must test an application. Whether the application work properly or not. So, in this table we discussed about the implementation result.

Table 5.4.1: Test implementation table

Test case	Input	Expected Outcome	Actual outcome	Result	Test on
Browse	Teds on various devices browse	Successfully browse	Successful	passed	5/4/2020
Search	Search different type of product	Find successfully product	successful	passed	5/4/2020
Add Cart	Click Add cart	Product add successfully in cart	successful	passed	6/4/2020
login	Login correct email, password	Successfully Login	Successfully Login	passed	10/4/2020

Email, password	Incorrect email and password	Shown message wrong email and password	Show warning	fail	10/4/2020
Register	Fill up all find which are required	Register successfully	Go to login page	passed	12/4/2020
Order	Click out order button and fill up billing address	After click check out order success	Show successful message	passed	13/4/2020

5.5 Test Results and Reports:

To gleam test results in a structured manner, this research report is required, which provides an opportunity to approximate test results easily and even very easily. The test report is very significant and it is needed to know that our application is ready to use. This is a paper which documents data obtained from an appraisal experiment. We have several forms of testing to go through.

There is some type of testing:

- Functionality Test
- Regression Testing
- Security Testing
- Performance Test
- Scalability Test
- Usability
- System interoperability Localization
- Disaster recovery Installation

CHAPTER 6

Conclusion and Future Scope

6.1 Discussion and Conclusion:

Finally, we have finished to our Smart Online Fashion House project. After all, by the grace of Allah we just make it. Using this application people easily order product in this website. It is helpful all people who want to shop in online.

We've heard a lot about the challenges of creating and having a website when we will be designing a program like this. It was a wonderful learning experience and, in the future, we will start to create other websites, which is why we choose the idea. We always kept in mind to make the project user friendly. Our focus was to make the system acceptable to any user.

6.2. Scope for Further Developments:

1. Currently, the Smart online fashion house does not offer service through telephony, but in the future, we will provide it at Smart online fashion house.
2. The customer who orders the product will be provided with automated mail sending facility.
3. In the future live support will be offered via live chat.
4. Websites will be installed via secure https link.

References:

[1] C. Carmona, S. Ramírez-Gallego, F. Torres, E. Bernal, M. d. Jesus and S. García, "Web usage mining to improve the design of an e-commerce website: OrOliveSur.com," *Elsevier*, vol. 39, no. 12, pp. 11243-11249, 2012.

[2] M. Harbone, "The History & Evolution of Ecommerce," 11 April 2019. [Online]. Available: https://paykickstart.com/the-history-and-evolution-of-commerce.

[3] R. Internet, "Daraz," Alibaba Group, 2012. [Online]. Available: https://www.daraz.com.bd.

[4] M. Rassel, "E-valy," 2017. [Online]. Available: https://evaly.com.bd.

[5] J. Becker, M. Rosemann and C. V. Uthmann, "Guidelines of business process modeling," *Springer, Berlin, Heidelberg*, vol. 1806, pp. 30-49, 2002.

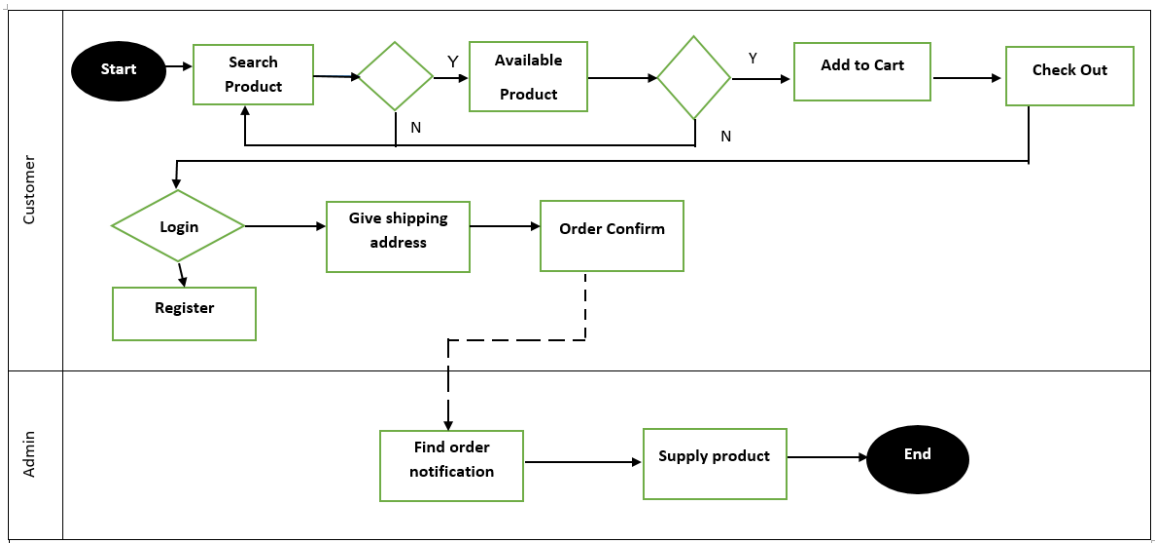
APPENDICES

Appendix A: Reflection of project

This appendix is meant to incorporate Project's reflection. This mission was really challenging and interesting for us. We enjoy developing it. We understand many things during the developing period. We have continually developed and expanded each other's ideas. Just how successful our community meetings were having been intriguing. The time seems to pass and still we've still done a lot and tried to support many on the road to a concrete policy outcome. Here, a survey form of this application "Smart Online Fashion House."

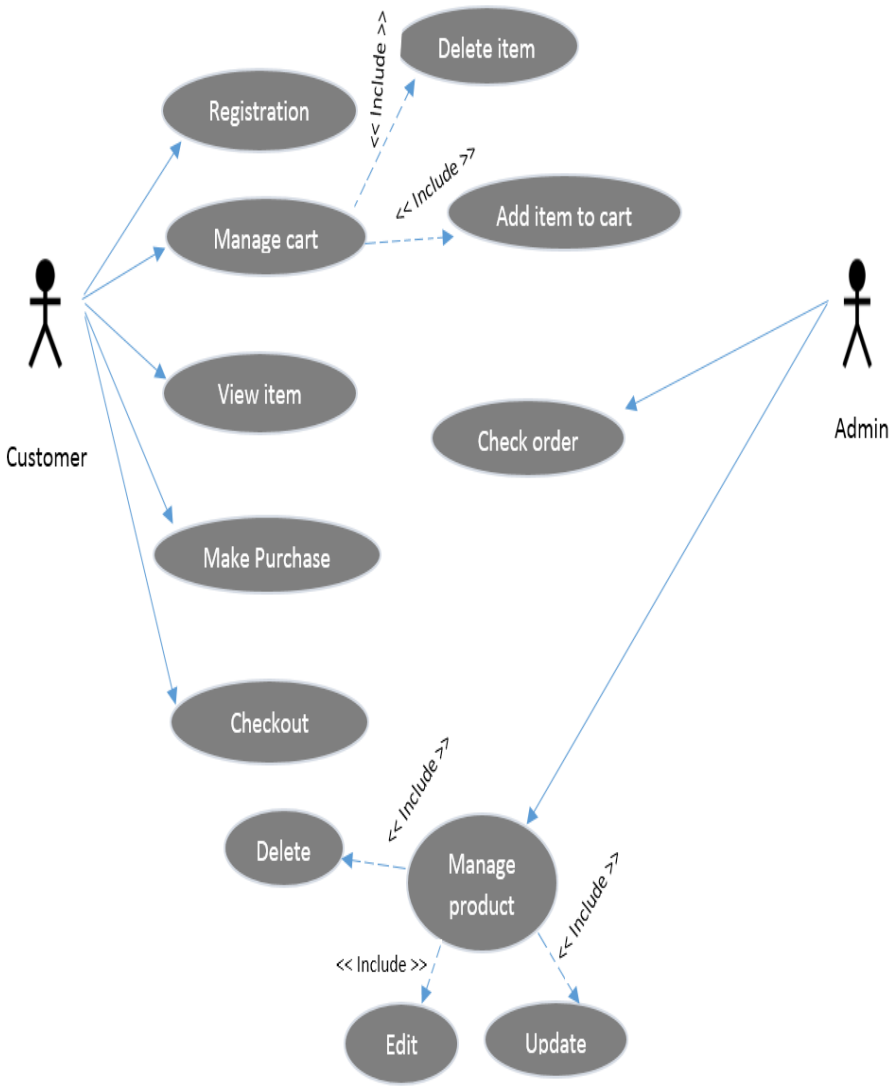
Appendix B: Diagram:

Business process model diagram:



Logical model diagram:

Use Case Diagram:



Document Viewer

Turnitin Originality Report

Processed on: 05-May-2020 15:48 +06
ID: 1316476086
Word Count: 3316
Submitted: 1

smart online fashion house By Md. Jahangir Alam

Similarity Index	Similarity by Source	
11%	Internet Sources:	N/A
	Publications:	N/A
	Student Papers:	11%

exclude quoted exclude bibliography exclude small matches mode:

quickview (classic) report ▼ Change mode print refresh download

4% match (student papers from 05-Apr-2018)
Submitted to Daffodil International University on 2018-04-05

2% match (student papers from 20-Dec-2019)
Submitted to University of Northumbria at Newcastle on 2019-12-20

1% match (student papers from 09-Apr-2018)
Submitted to Daffodil International University on 2018-04-09

1% match (student papers from 07-Apr-2018)
Submitted to Daffodil International University on 2018-04-07

1% match (student papers from 24-Dec-2019)
Submitted to University of Wolverhampton on 2019-12-24