

frozenfood.com

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A Project
in
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Approval Certificate

This project titled "**frozenfood.com**" submitted by Asma Zaman Shanchita, Student ID: 012141008, has been accepted as Satisfactory in fulfillment of the requirement for the degree of Master of Science in Computer Science and Engineering on 6.1.2018.

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Declaration

This is to certify that the work entitled “**frozenfood.com**” is the outcome of the research carried out by me under the supervision of Prof. Dr. Mohammad Nurul Huda Professor & Coordinator - MSCSE.

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Abstract

In today's fast-paced trade surroundings, a persuasive and fast reply to client's need is the crying need for any successful business. The business-to-consumer of e-commerce is the most noticeable business. The main objective of the e-commerce website is to sell products and services. In this project, I have discussed one of the most common business criteria which are online frozen food sale. It allows the users with a catalog of different company's frozen food available for buy. It allows the users with a catalog of different company's frozen food available for buy. They are also allowed to view various products and a shopping cart is also available for the purpose of purchasing. Only the registered users are allowed to buy and two types of purchasing method are available-one is credit card payment process (Instant Pay) which is applicable for instant purchase and another is cash on delivery (Pay Later) option. The administrators and managers can easily check the placement of orders using Pay Later and Instant Pay options.

Many techniques are used to carry out this project including multi-tiered architecture, server side and client side scripting languages. Using programming languages are (PHP, Javascript, CSS), and relational databases (MySQL). In this paper, all the techniques and the regarding developments of the online frozen food sale website are discussed.

Acknowledgement

I have been blessed to get help, support and encouragement from numerous populaces for completing this e-commerce project. I would like to acknowledge them for their indescribable cooperation.

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Chapter 1

Introduction

E-commerce is generally known as digital marketing. E-commerce is swiftly gaining position as an accepted and used business example. It is a progression of selling products through website. It represents an automation electronics as mobile, electronic money transfer, internet marketing, online transaction processing, EDI, record handling process and automated information collection method.

The technique by which consumers directly pay cash for products from seller in actual-time excepting any mediator over the internet is e-commerce. "frozenfood.com" is an endeavor to serve the usefulness of shopping from online to customers feel like a real shop. E-commerce avails shopping the products in the shop anywhere through internet by using electronic device. Therefore the consumer will get the desired products from online and home delivery from his/her desired shop.

Updated e-commerce normally conduct website for leastwise one portion of the transaction's life circle although it may also use other technologies similar to electronic mail. Typical e-commerce transactions means purchasing products similar to from amazon.com, alibaba.com or aliexpress.com, customized online stock store inventory services. There are three types of e-commerce - online retail, electric markets, and online auctions. E-commerce is supported by electronic business.

Main objective of this project is to acquire a general viewpoint of e-commerce store where all frozen food of all brands are available. Consumers have buying from comfort of home through the internet.

E-commerce store is a virtual store where customers can browse the catalog and select items of interest. If items are in stock the selected items are placed in the cart. On checkout time, items within shopping cart will be showed as an order. At that moment, bill-to and ship-to address will be looked-for to complete the operation. Typically the consumer will be asked to fill in or select billing information, a shipping address, a shipping time, and payment method and payment information such as credit card number. An e-mail notification is mail to customer as soon as the order is placed.

Six basic types of e-commerce are seen:

- B2B
- B2C
- C2C
- C2B
- B2A
- C2A

Business-to-Business (B2B) - B2B is explained as e-commerce among two or more pursuits concern. Nearly 80% of e-commerce shop is of this type. Examples - Intel selling microprocessor to HP.

Business-to-Consumer (B2C) - B2C is explained as e-commerce among companies and consumers. In this system engages to gather client's

information, purchasing physical products or receiving products over an electronic network.

Examples - Dell selling a laptop to customer.

Consumer-to-Consumer (C2C) - C2C is commerce among private persons or customers.

Examples - ebay.com

Consumer-to-Business (C2B) - C2B transactions take place when a company set a job online and businesses bid on the project.

Examples - Food companies request food bloggers to include different new products in a recipe, and analysis it for readers of their blogs.

Business-to-Administration (B2G) - B2G of e-commerce encompasses all transactions performed online among companies and public administration.

Examples - Social security, legal documents, employment and registers.

Consumer-to-Administration (C2G) - In C2G, consumers have also selling their goods or services to the administrative sector.

Examples - Teachers offering distance learning services, Tax return filing service.

Every businessman is looking for an online store where they can advertise and sell products, during the increasing need of e-commerce. Businessman can obtain benefits by opting for e-commerce as it delivers a comprehensive range of benefits to retailers and wholesaler.

Benefits of E-commerce

- No topographical circumscriptions to reach to customers.
- Everyday buying/selling 24 hours 7 days.
- Rapid buying/selling strategy.
- Getting services are very satisfactory by inconsiderable expenditure.
- Effortless to begin and deal with a business.
- No need to real company set-up.
- Customers can directly decide to buy goods from different e-commerce provider without shifting around actually.

Drawbacks of E-commerce

- No assurance of products quality and quantity.
- Any one, decent or corrupt, simply begins business and there are many bad websites which stole customer's money.
- Mechanical breakdowns can reason rough impression on the total procedure.
- No scope of visible contact with customer to company so customer's faithfulness is evermore losing.
- Many hackers who search for opportunity to hack an e-commerce site, service, payment gateways.

Process of E-commerce

- Consumer is able to easily order products from e-commerce site, using electronic devices connected with internet.
- Consumer's purchase request has forwarded to order officer by web site server.
- Stock officer inquiries to find out whether the demand of customer is available or not in stock.
- The store officer can order new supplies from peddlers or manufacturers in case products are not available,.
- Products are in stock or suggest an estimated delivery date by ensured by stock officer.
- Order officer carries on processing the order if products are in stock.
- E-commerce website has connected with a payment system to take collection accepting customer's credit or debit card.
- Customer's bank information has verified by administrator.
- Bank also checks whether customer has sufficient cash.
- Administrator authorizes the transaction to go ahead, though cash will not be thoroughly handed over.
- Manager substantiates that transaction has been prosperously processed and notifies the web server.
- Server of e-commerce site displays customer an order confirming web page so that customer can know that his/her order has been processed and the transaction has completed.
- Officer transfers an insistence to store house to rapidity products to customer.
- Trucks from store collect products and deliver.
- However products have been discharged, warehouse officer sends notification to consumer to confirm that his/her goods are on way.

- Products are shipped to customer.

Overview of E-commerce Project

This website engages its specific database to be sustained. Since the details about products are keeping store in the database (mysql) for server side functionalities.

The process of server is for dealing with customers detail and products that are shipped to different locations basis on the addresses given by customers.

This e-commerce application sketch contains two modules one is for customers who want to buy products (frozen food), and other is for store administrator who controls and updates information of products (frozen food) and about customers.

The users who using these products are ordinary people for whom this application are to be hosted on the web and administrator maintains the database.

Application that is installed on customer's database, the information about items are emphasize and forwarded from database to front end view based on selection via menu list and based on all these searches and transactions the database of all products are updated at the end of each transaction.

The entries for products, into the e-commerce application may be creating among various screens designed for various levels of users. As early as, the authorized employees of business fills the related data into the system. Several reports are created depends on the security policy that is used.

Future Opportunity of E-commerce

- E-commerce purchasing gives facility of the 24 hours 7 days service, so that customers can visit the website and place orders anytime as their wish.
- Delivery process is working for 24 hours 7 days hours a week.
- Few attributes that possibly customized and accumulate to the upcoming system include its finishing by local merchant, where shops will serve an online interface to customers for purchasing and putting orders.
- Delivery persons deliver the products. This will very time consuming for the customers since it will save customer's time.
- Distribution system integrates advantages for the shopkeepers withal, as client will carry on to shop from local shops rather than shopping to super markets always.
- As the deliveries from these local vendors will not be as time consuming as these cannot accept flipkart, amazon etc but rather will be delivered the same day of order placed.
- The merchant may inquire to customer that the product will be available in next day, so if he/she still wants to place the order, it can be done.
- Interchange or exchange will be facile procedure since the distribution person can distribute products as the shop is proximate by.
- Adding a message box for customer benefit is also a great concept via which people can directly contact with some officials person about any type of inquiry.

Chapter 2

Background

The mission of this paper is to give explanation the features of E-commerce website. The prime products of this website consist of frozen foods. In this website, visitors can enjoy the publicly available features such as browsing products, seeing details of products (image, quantity and cost) and view other static contents of site. They can also get registered in the website if they want to purchase something as registration is the prior requirement before any shopping. Registered customers have seen entire publicly available features and have purchased products by adding them into shopping cart. Admin have updated and managed all products. They are also responsible for the collection and delivery of the requested products to customers. Customers can pay bills only after they are delivered their requested products. So, from the Backend (admin side) the types of users of the website are -

- Visitors
- Customers (Registered Member)
- Admin

2.1 Literature Review

E-commerce website has supported the communication between several parties involving in a business deal through internet.

The rising significance of e-commerce is vivid in study conducted by researchers at the GVU center at 89the 'GIT'. In the review of judgment from the eighth survey, the researchers inform that “e-commerce is taking off both in terms of the number of users shopping as well as the total amount of customers are spending via internet based transactions”.

Although the concern of protection/guarantee remains the main reason why more customers do not buy products from e-commerce website. The GVA analysis point out that belief in the protection of e-commerce is increasing. Since more people achieve assurance in current encryption technologies. So many consumers can be expected to frequently buy products from e-commerce site.

An excellent e-commerce website must exists the following attributes to the buyer for better usage -

- Get acknowledgement when a product was add or not added in shopping cart.
- Effortless scanning and picking products in cart.
- Giving back to different sections of the site after adding an item to shopping cart.
- Products have arranged with impressive category.
- Consumer can navigate from home page to products details page and order links for specific products.
- Understandable shopping links.
- Minimum and actual security notifications or messages.
- Reliable design of products information.

Response of customer query is one of important aspect within website design of an e-commerce site. Ordinary cycle between a user and e-commerce web site has not completed until the web site responds to a command entered by the user.

E-commerce site response often consists of a change in the visual or verbal information presented to user. Easy examples including highlighting a choice made by the user or filling field on a form based on a user's selection from the lists. Other example is about cash register to confirm that a product has been added to an electronic shopping cart. Finished orders should be acknowledged expeditiously. This may be done with an acknowledgment or confirmation of order. Duration it takes to engender and load this page, however, is a source of irritation for many e-commerce users. Users are expeditious to attribute meaning to events. An empty page, or what a user realize to be "a long time" to get an acknowledgment, may be explained as "there must be something erroneous with the order." In case of creating an acknowledgment may grab longer than what usually expected by the user, then the website design must add intermediate feedback to the user indicating the progress being made toward acknowledgment or fulfillment. Determinately, feedback should not divert the user. Actions and reactions made by the web site should be consequential. Feedback should not draw the user's attention away from the paramount tasks of amassing information, culling products and placing orders.

2.1.1 System Analysis of Online Shopping Project

The procedure of assembling data, investigating the difficulties and then explaining facts is named as system analysis. It consists of recommending system progress wanted, basis on the same data.

The e-commerce system is recognized as a whole, the inputs require to be discovered firstly before tuning them and after that the system is subjected to research as an entire to recognize the difficulties fields.

Even though tuning of any system as a whole is complicated method, but tuning individual records is not most excellent as something that is correct for one input may create problems another inputs performance.

The resolutions are given as a suggestion. The suggestion has improved on user demand and optimum modifications are made. This circle finishes just as when users have satisfied with the proposal.

So as a whole, system analysis is completed to make better the system performance by examining it and achieving the best output probable from it. Thus system analysis plays an important role in designing any e-commerce system.

2.1.2 Existing System of Online Shopping Project

The current condition for shopping is to go the shops or markets physically and then from the available product lists customer needs to choose from the items that he/she wants. Then payment for the similar products generally in cash is done, sometimes use card and wallets etc.

The e-commerce system is little user friendly as customer needs to go to the market actually and then choose products only from the available products list. So it is difficult to get all the products as per customer's desire normally.

Products details are not available and are oral only. For this kind of shopping customer needs to have sufficient amount of leisure time. Also there are not really good qualities markets exist in all places, so several times good quality markets become apart from some customers.

In this project customers must not to go to the shops for buying products. Customers may order the product that wishes to purchase using this system.

The shop owner may be the admin of the e-commerce system. Shop owner can assign officials employees mainly to control the e-commerce shop. For controlling customers and product orders employees will help owner. 'frozenfood.com' system also gives home delivery service for delivering purchased products.

2.2 Project Design

To design a web site, the data flow diagram (DFD) and use case diagram must be designed first.

2.2.1 Data Flow Diagram (DFD)

A DFD is a descriptive presentation of the "flow" of data over an information system, designed its process facet. A DFD is generally used as a primary step to make analysis of the system without knowing the full system details.

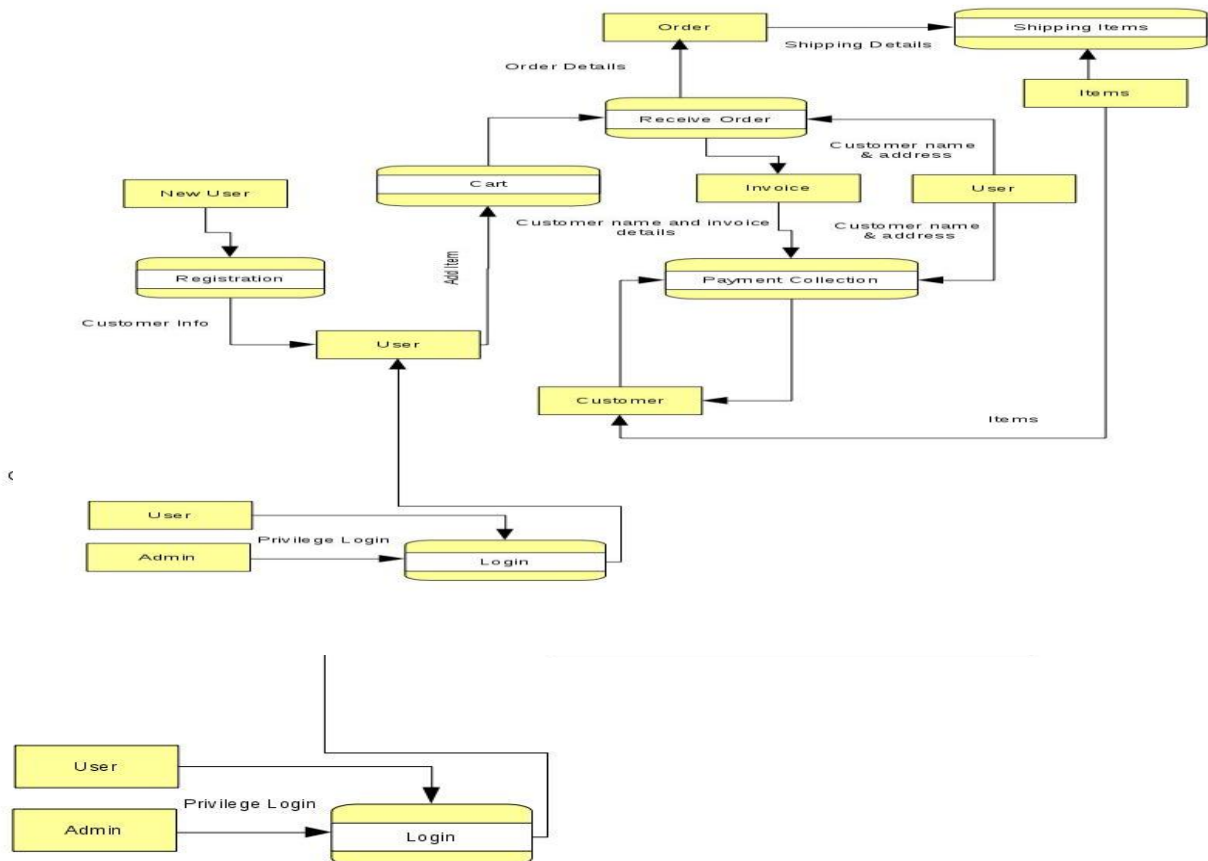


Fig-1: Data Flow Diagram (DFD) of E-commerce website

Explanation of DFD diagram

- New users can registration as registered customers.
- After login user add items in cart.
- When admin log in and receive order of the customer admin check the payment status, shipping address and product type and quantity.
- If users confirm his/her order admin send the order to shipping team.
- Shipping team deliver the products to customer.

2.2.2 Use-case Diagram

Use case diagram is a figure of a user's communion with system so as to it presents the relationship among users and different use cases in which users related. Use case diagram can recognize different types of users and different use cases of the e-commerce system.

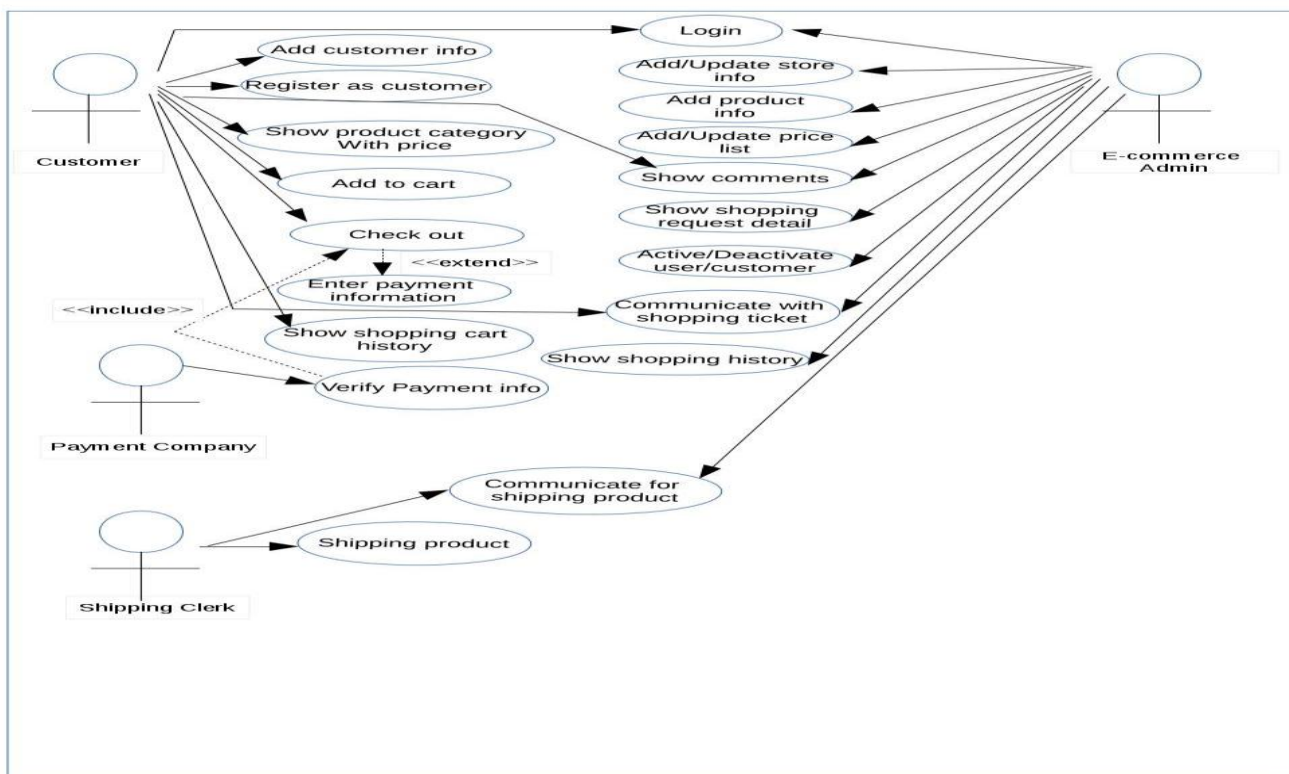


Fig-2: Use Case diagram of E-commerce website

Explanation of Use-case diagram

- A consumer uses browser to connect to the home page of merchant's website through internet.
- New consumer can register as authenticate customer.
- User login as registered customer after registration.
- Consumer browses the catalog of products featured on the site and select products to purchase.
- If the item is in stock, the selected items are placed in shopping cart.
- When the customer ready to complete the purchase of selected items customer provides a bill-to and ship-to address for purchase and delivery.
- After receiving customer information merchant does calculate total cost of order including tax and shipping charges and display total to the customer.
- After receiving total cost, customer can now select payment method (Cash on delivery or credit card) and provide payment information such as credit card number and the submit the order.
- When credit card number has validated and order has completed, the customers have shown a receipts of confirmed purchasing.
- The admin of commerce server site then forward the order for payment processing and arrange to deliver the products to the customer.
- The goods are delivered to the customer.

Chapter 3

Methodology

TECHNOLOGIES WE USED IN THE PROJECT

HTML

- HTML is an expression for explaining web pages.
- HTML means Hyper Text Markup Language.
- It is not a programming expression, it is a markup expression.
- A markup expression is a set of markup tags.
- It uses markup tags to describe web pages.

CSS

- CSS means Cascading Style Sheets
- It preserves a plethora of work.
- It can supervise the design of various web pages all at once.
- External style sheets have stored in CSS files.

CSS give details how HTML codes are to be displayed on screen. It is very effective mechanism for the web site developer. CSS deliver the chance to be completely consistent with the view and quality of web pages, while giving developer enough control over the page layout and design than straight HTML ever did. CSS discovered in 1997, CSS are

widely used among browsers and web developers are learning to be more convenient with them.

JavaScript

- JavaScript is written to integrate internal activity of HTML pages.
- It is a scripting language.
- It is very light weight programming language.
- It is generally attached directly into HTML pages
- It execute without initial compilation.
- Each developer can utilize JavaScript without purchasing a license.

PHP

- PHP means "Hypertext Preprocessor".
- It is widely-utilized, open source scripting expression.
- It is executed on the server side.
- It is free of charge to download and use.
- Using PHP dynamic page content are created easily.
- It can generate, open, read, write, delete, and close files on the server side. change
- It can assemble form data.
- It can transmit and accept cookies.
- It can integrate, efface, and modify data in database.
- It can be acclimated to monitor user-access.
- It can encode data.

User Interface Design

A few user interfaces were constructed to view the user interaction with the e-commerce system.

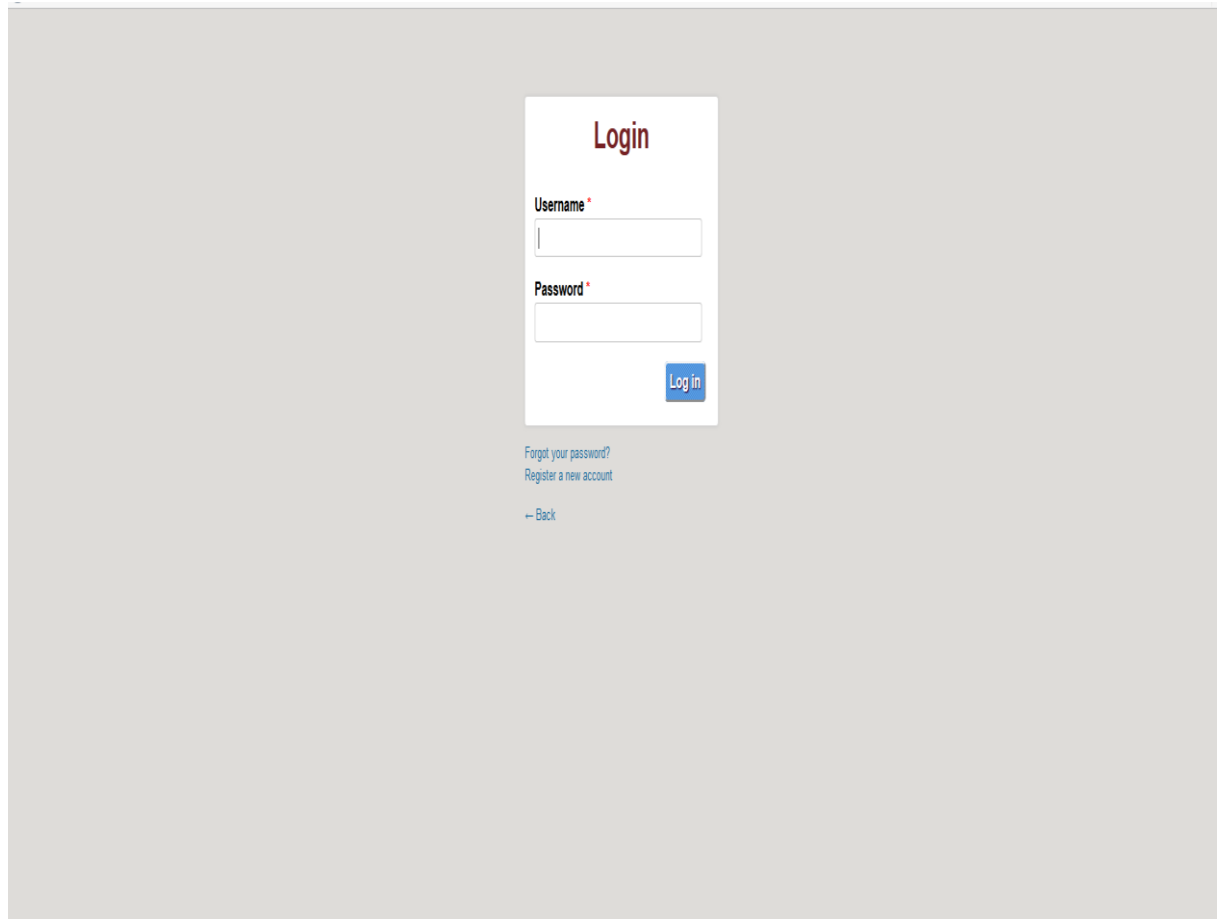
The image shows a user login interface centered on a light gray background. The interface is contained within a white rectangular box. At the top of this box, the word "Login" is written in a dark red, serif font. Below the title, there are two input fields. The first is labeled "Username" in a small, dark gray font, followed by a red asterisk. The second is labeled "Password" in the same font, also followed by a red asterisk. Both labels are positioned to the left of their respective input boxes. To the right of the password input box is a blue button with the text "Log in" in white. Below the input fields and button, there are three links in a small, blue, sans-serif font: "Forgot your password?", "Register a new account", and a link with a left-pointing arrow followed by the text "Back".

Fig-3: User Log-in view

REGISTETION AND LOGIN

This process verify the name and password and user can register in site. Authenticate user only can login by using their user id and password.





[Home](#)
[Products](#)
[Recipes](#)
[Contact](#)
[Log In](#)
[Log Out](#)

Product	Price	Quantity	Remove	Total
Chicken Spring Roll	145.00%	1	Remove	145.00%
Kechki	230.00%	1	Remove	230.00%
Shrimp Spring Roll	185.00%	1	Remove	185.00%
Shrimp Samosa	180.00%	1	Remove	180.00%

Total: 740.00%
[Update cart](#)
[Checkout](#)

Fig-6: Generate bill

GENERATE BILL

In this process admin see the order details and give bill details after user give the conformation message and user is generate the bill store the information

Shopping cart contents

Product	Price	Quantity	Total
Chicken Spring Roll	145.00%	1	145.00%
Kechki	230.00%	1	230.00%
Shrimp Spring Roll	185.00%	1	185.00%
Shrimp Samosa	180.00%	1	180.00%
Order total			740.00%

Shipping information

Country *

Full name *

Address 1 *

Fig-7: Proceed to order view

Billing information

Country *
 Bangladesh

Full name *

Address 1 *

Address 2

City *

Postal code

Choose Delivery Time Slot

Sun, 14 Jan	☐ 10:00 AM - 11:00 AM(100 slots remaining)
Mon, 15 Jan	☐ 10:00 AM - 11:00 AM(100 slots remaining)
Tue, 16 Jan	☐ 10:00 AM - 11:00 AM(100 slots remaining)
Wed, 17 Jan	☐ 10:00 AM - 11:00 AM(100 slots remaining)

Fig-8: Confirm order view

Admin Interface Design

LOGIN

This process verifies username & password for admin on authenticate login password Admin can redirect to the various function.

Login

Username *

Password *

[Log in](#)

[Forgot your password?](#)
[Register a new account](#)

[← Back](#)

Fig-9: Admin login

MANAGE PRODUCT

In this process admin is managing the product and new product information update details.

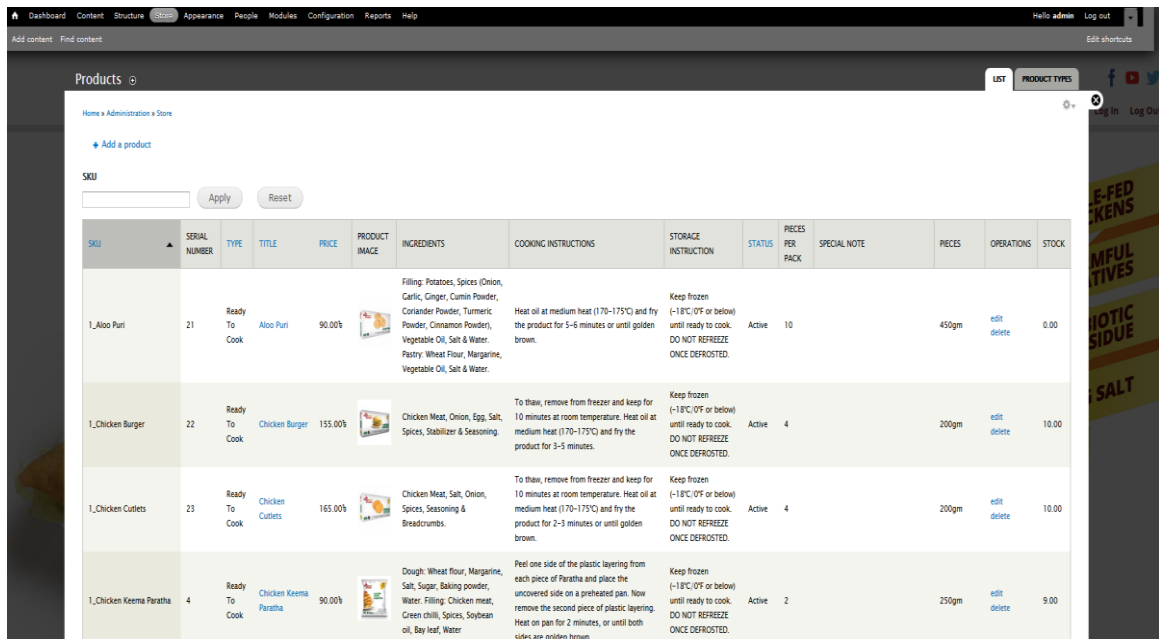


Fig-10: Manage products

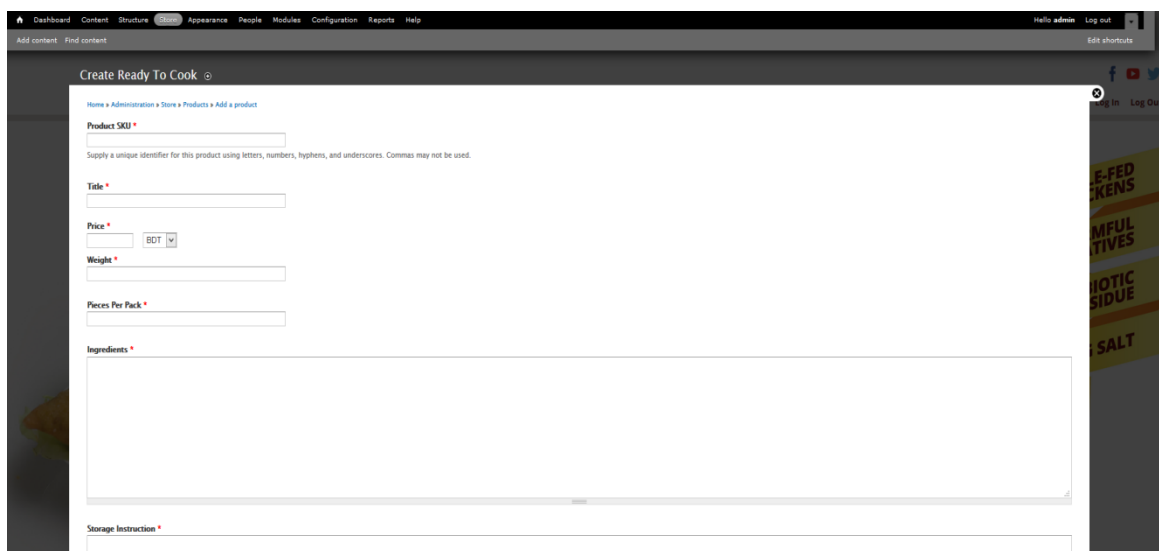


Fig-11: Add products

MANAGE USER

In this process admin manage the user and update user details.

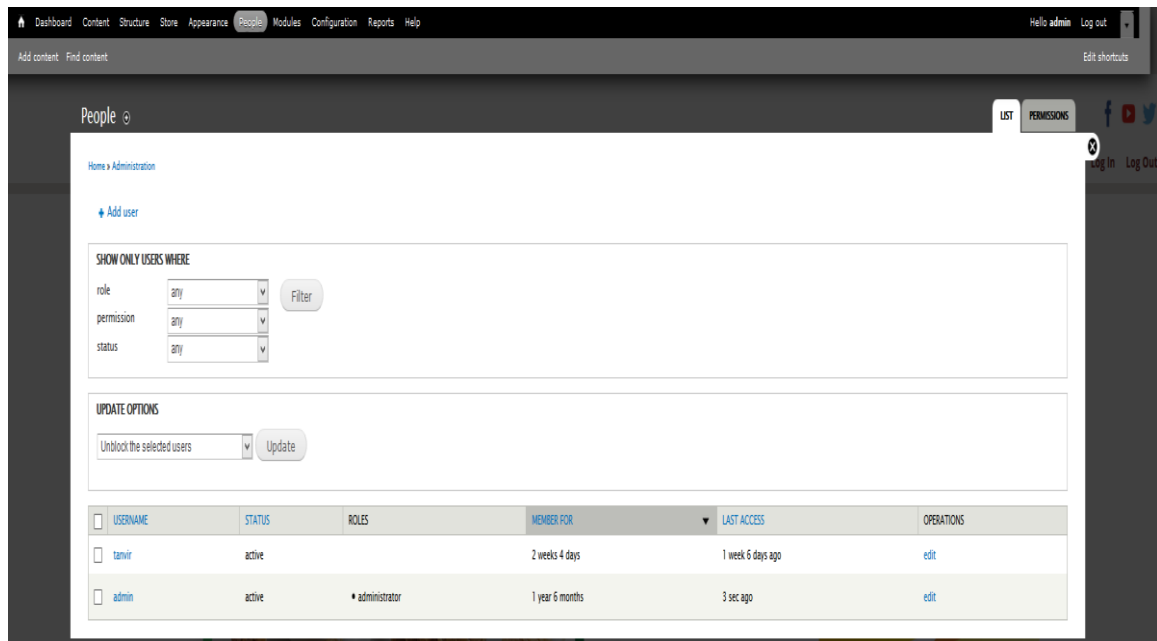


Fig-12: Manage users

MANAGE ORDER

In this process admin manage the order he can view the order details and shipment details after he give the conformation message send the user.

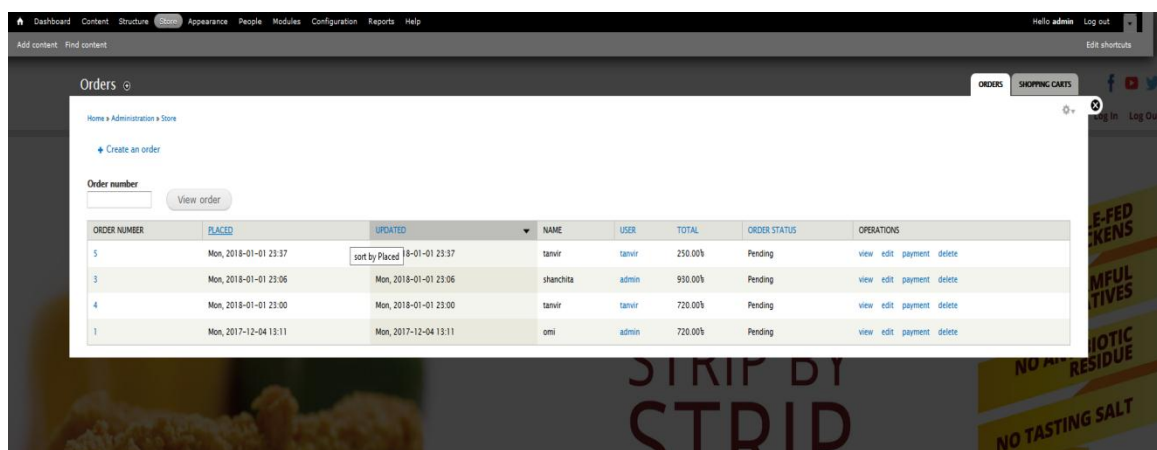


Fig-13: Manage order

GENERATE BILL

In this process admin see the order details and shipment details after he give the conformation message and he is generate the bill store the information.

The screenshot shows the 'Order 5' page. At the top, there's a navigation bar with links like Dashboard, Content, Structure, Store, Appearance, People, Modules, Configuration, Reports, and Help. Below this, there's a search bar and a 'Hello admin' greeting. The main content area displays 'Order 5' with a status icon. A table lists payment details:

STATUS	DATE	METHOD	RENOTE ID	RESULT MESSAGE	AMOUNT	OPERATIONS
	2018-01-01 23:37	Example payment	-	Number: 4111-----1111 Expiration: 01/2018	250.00%	view delete

Below the table, there are buttons for 'Example payment' and 'Add payment'. To the right, a summary box shows:

Total paid	250.00%
Order balance	0.00%

Fig-14: Generate bill

MANAGE FEEDBACK

In this process admin can view the feedback of every user.

The screenshot shows the 'Submission #2' page. It features a navigation bar similar to the previous one. The main content area displays 'Submission #2' with a status icon. Below this, there's a 'Print' button and links for 'Previous submission' and 'Next submission'. The feedback details are shown in a form:

Submission information

Form: Contact Us
Submitted by Anonymous (not verified)
Sat, 2018-01-20 09:11
192.168.0.103

Name
tanvir

Contact Number
01717406782

E-mail Address
om352@yahoo.com

Message
I need 4 packets Of Aloo Puri

Fig-15: Manage user feedback

Limitations and Future Development

- Credit card justification has not done. Third party proprietary software can be used for validation check.

As for future developments, the following steps can be done -

- PayPal payment system and advanced payment system can be made available.

Chapter 4

Conclusion

At present one of the greatest revolution using technologies is e-commerce shopping. It additionally has virtually the same facility as a mundane authentic market possesses.

E-commerce shopping is a procedure in which people (particularly customers) are being supplied with the option of buying goods and services directly from the shopkeeper, all in actual time surroundings.

This shopping system known as electronic commerce. From the business view, customers customarily find the products more alluring, on website, as they get all products details available in the website.

People in large voluminous numbers are doing shopping at present through internet, and it is not only because it is convenient as one can shop from home, but also because there are wide amount of varieties available, with high competition of prices, and also it is easy to handle for searching regarding any particular item.

For merchant, their products have access to whole world wide market, which also increases the number of customers and improve the customer relationships with seller. Withal the web stores are an expedient for the diminutive scale companies to launch their products at ecumenical level.

The major purpose of this application is to establish a web oriented application which will provide an e-commerce shopping feature to customers. Specifically, this project aimed at developing a virtual shop environment for customers, in convenient form, which will be available to customers through internet. Even though the concept of developing online shopping websites are not new in the electronic market and has been developed soon. Nowadays the largest market for online shopping business is maintained by the highly educated person.

This E-commerce shopping system has been created considering all the options such as loading the data, complexity and maintaining the security of user reference. In this E-commerce system, complexity refers to the total number of features being given to users, and their smooth arrangement and functioning required. Following are some of the key features of our system, which differentiate it from others:

- Show all the available categories for shopping on the home page.
- Show all the sub-categories on the home page, which are combined with any specific items.
- Administrator has the control to add new particulars to the items list at any time needed.
- Sanction to administrator to efface items, anytime from the products lists.
- Allows the administrator to transmute the price of every items, whenever required or felt like.
- Administrator has the authority to update the description of each item.
- Administrator have permission to show information about each customer who checkouts the items list.

Internet has become a prime facility of modern enterprise. Subsequently it has availed significance as well as from entrepreneurs and from customer's stands point. For entrepreneur, e-commerce shopping generates new business chance and for the customer, it makes approximate easy shopping possible. As per analyze, most e-commerce customers of are passionate and usually make choice to continue on a site within first few seconds. E-commerce site design is similar to a shop interior decoration. If shop looks poor or like hundreds of other shops the customer will must jump over to other shop. Therefore we have designed this website to give user with easy navigation, recovery of data and necessary feedback as much as possible. In this project, customers are supplied with an e-commerce web site that can be used to buy frozen food via internet.

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