

VOICE BASED E-COMMERCE

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This Report Presented in Partial Completion of the Requirements for the
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APPROVAL

This Project titled “**VOICE BASED E-COMMERCE**”, submitted by MD. Zahedul Karim, Md. Mahmudur Rahman, Mohammad Sirajul Islam & Md. Rushad-Bin-Sayeed to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as appeasement for the partial Completion of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 07 November 2018.

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We hereby declare that, this project has been done by me under the supervision of Mr. **Ahmed AL Marouf, Lecturer, Department of CSE**. Daffodil International University. We also declare that neither this project nor any part of this project has been submitted on the other hand for reward of any degree.

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ABSTRACT

Voice-based E-commerce is a software application what we used on commercial websites where we can find the products using voice commands. It's meant to put or at least offer an alternative to using our keyboard or mouse in order to navigate E-commerce sites and buying items. In our site, all other function will be work like a normal E-commerce site. An Admin can add the item, edit the item, delete the item, login etc. Some of the voice E-commerce platforms bear sophisticated voice acknowledgment capabilities and maximum of them conquer the very primary 'yes' or 'no' and can process more difficult sentences and reaction. Voice E-commerce reducing the quantity of time it takes to fulfill a purchase dramatically and allows one to shop in any condition; While we showering, working out or in bed. Since technology is continuously changing, we don't want to type in hand, so we try to a different way. ComScore predicted that 50% of all searches will be voice searches by 2020. That's why we try to develop this kind of service in our project.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

“Ecommerce is a system that we can buying and selling of goods and services, and the transmitting of data, over an electronic network and primarily the Internet. So, we can say that E-Commerce refers to the modern selling method. Nowadays the E-commerce is the necessity of our regular life. We can easily shop the necessary items through the E-commerce. The Purpose of E-Commerce website is if we have a warehouse in our local area market, we can sell our products to our local customers who used to visit our warehouse physically. But how can we reach our products to those, who don't have enough time to come into our warehouse. E-commerce web design will help us to in this thing. We can sell to remote customer by offering our website. Customer will visit our website, choose their products and place order to our website of warehouse. We need to have a delegated team to supply products at our customer's destination.

1.2 Motivation of work

Human being can speak nearly 100-130 words in one minute where they type around 36 words per minute. According this suggest search through speaking any one can find information much faster. E-commerce site usage increasing day by day and upcoming trend is voice commerce. So we try to develop ecommerce site that allows for Hands-Free Search. Smartphone access is by far is the fasted growing sector. Those time we was thinking about it if we can solve that using natural language processing. That means this people do not necessarily the requirement to type or hold their phones to discover information. They can use a voice search app to whole their search by voice while cooking, or even while driving. To display the right product in the right time. The technology is being discovered day by day for human help. We think speech recognition is the most important one among others for faster and easier life.

1.3 Objectives

The Voice E-commerce System is implement for the purpose of reduced time and make sure for quicker and more efficient search. That means people don't needed to type of hold there devices to find the right time and right information.

- The user can easily find their product
- Reduced the time and reduced the search bunch rate
- User attraction will be increased by the voice E-commerce
- Catch more customers, make more sell.
- Increasing sales rate
- Utilize the customer time
- The right product display on the very first page
- Deliver to user search result.
- E-commerce business is growing up if we change or integrate voice search command
- Wherever or however you are, just open your phone, say, "Mobile!"
We can purchase our favorite foods, electronic items, or other things, just by speaking them into our phone.

1.4 Expected Outcome

Voice e-commerce system is web application where user not need to traditional typing but user can be find their information by voice command. In this system we are focus at future that will be easier and faster search.

1.5 Report layout

In this chapter we discussed about the summarization of my topic what we have discussed in our other chapters.

In Chapter 1. We have discussed about the purposes of the project, project objectives idea, Motivation and Expected Outcome.

In Chapter 2. We have discussed about comparison of my project with others related work, discussion about comparative works. Also discussed what problem face for the project implementation and how to overcome challenge.

In Chapter 3. We have discuss about project requirement specification. This chapter will show Use Case Diagram, Business Process Model, Requirement Collection and Analysis and Logical Data Model and Design Requirement which will give a clear concept about the functionality of the system and interactions of users with the system.

In Chapter 4. We have to discuss about design specification here two types of design specification Front-end design and Back-end design. Also Interaction design and UX.

In Chapter 5. We have mentioned about my implementation and testing. Implementation is the most important task for a project. The clear understanding of the project concept and procedural details are provided by design and analyze in this chapter. This chapter will also show Implementation of Front-end Design. Testing implementation is also important for any project. By implementing this can make sure project error free or not. This chapter also discuss about Implementation of database and Interactions.

In Chapter 6. This chapter described a brief conclusion of the project report. This chapter also shows Scope for Further Developments.

CHAPTER 2

BACKGROUND

2.1 Introduction

In SDLC formula design the proposed system will be defined as tasks that concentration on the specification of an elaborate computer based solutions. System design is the most significant period of the System Development Life Cycle. It provides the practical and conceptual knowledge about my system as we as understanding, procedural details. Emphasis is on translating the performance requirements into design specifications. The data inventory of the proposed system will be defined and the relationship among the entities with the constraints will be identified. Hence, the above analytical phase will now be converted to a database formation in order to provide an introduced system the functionality to deliver data from a centralized database.

2.2 Related Works based on Our Project

Figure 2.1 shows that traditional search system where user need to type for specific information. It is the connected system and my project of my procedure but the intention of this system and our project intention is not fully similar. Our system is developed for hand free command that mean's voice command user need to type for query.

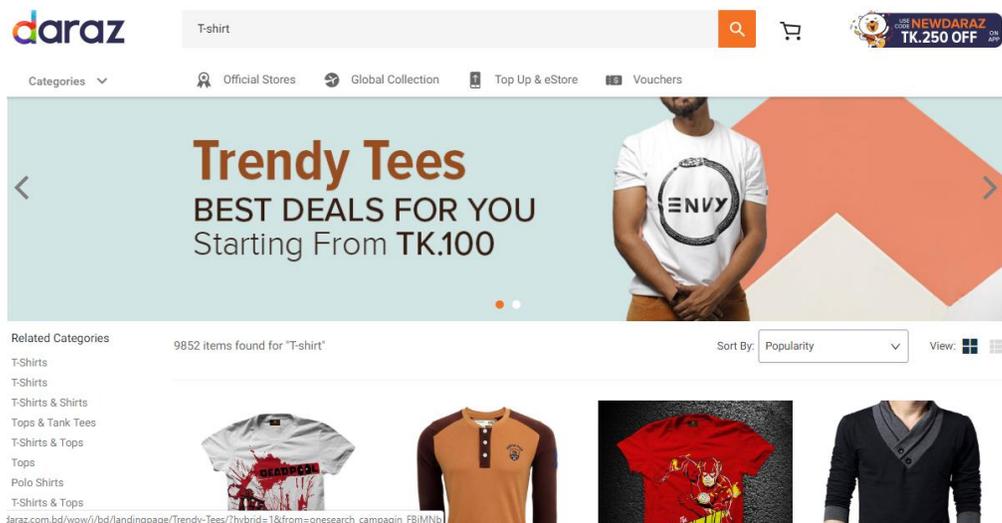


Figure 2.1: Traditional Search System

2.3 Comparative Studies

Our accomplish system is partially different from other existing system because my system has hand free command that means voice command that helpful for general user and physically challenge user. In our country online E-commerce system not use voice search technique but we concern about uses time. So, that's why we developed the speech recognition system for more batter and accuracy result with respect to time.

2.4 Scope of the Problem

It may help our system helps all kind of user (General user & physically challenge user) for accurate management to display in very first page right product to right time. It will reduce the time for searching query.

Our projects intention is reduce time and better performance:-

- To help the general user
- To utilize the time
- To optimized E-commerce site's content
- To provide more user friendly content.
- Voice E-commerce responsible for real time response
- To provide user attraction
- In our system we focus on user friendly GUI.

2.5 Challenges for the project

The better output depend on system performance. The response time and the execution time are main point for better output..

In below we are mentioned some challenges:-

- Performance and Load and execution time.
- Quality.
- Flexibility.
- Accuracy result is also important part for this project because different kind of user can be used our system.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modeling

Business Processing Model is based on a flowcharting technique for creating graphical models of business process operations. It is a notation that is readily understandable by all business users, from the business analysts that create the initial drafts of the processes. [1]

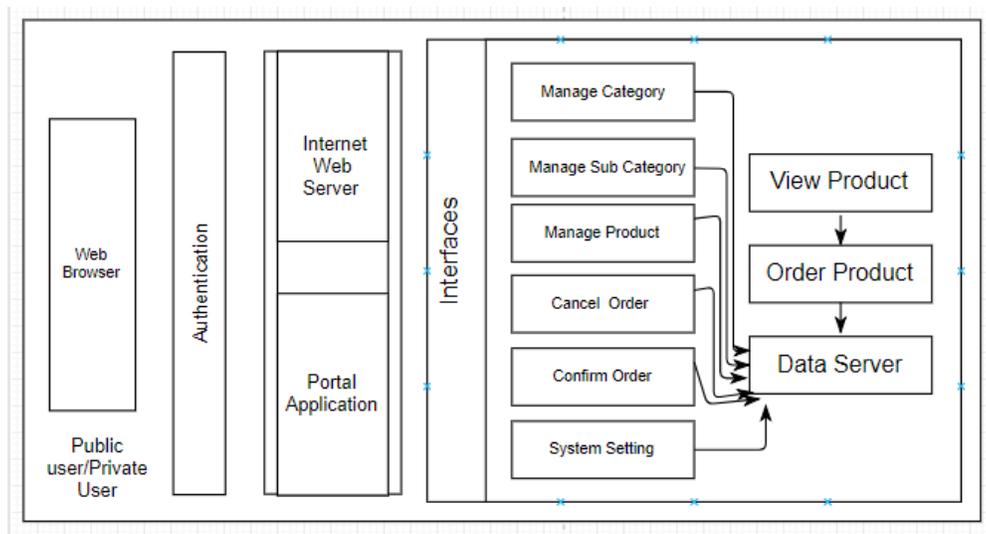


Figure 3.1: Business Process Model

3.2 Essential Requirement Collection & Analysis

Before analysis, we need to gather requirements and identify basic problem with respect to SDLC (System Development Life Cycle). We gather information's some relative field and identify the limitation of current ecommerce system. We visit system like Daraz.com.bd, ajkerdeal.com and identify the some limitation.

We are fixed some problems in the below:-

- ❖ Time wastage user typing for the product.
- ❖ Manual work whenever their using keyboard.
- ❖ Company reputation problem.
- ❖ Lake of communication between system and user.
- ❖ Load and execution time.

Functional Requirements: We are gathered requirements and knowledge from related task and also old system how actually work.

Some are mentioned below:-

- ❖ We gather basic structural documents from old systems like Daraz.com.
- ❖ We focus at current rent (Voice command) and to realize to develop system with respect to time.
- ❖ Admin that can manage all operation easily than previous system.
- ❖ Human life is being easier because of technology. We collected information about current e-commerce in our country those are using manual search system.
- ❖ Visitor concern about their time they need faster result.

Non-functional requirements:

- ❖ The system should be easy to use.
- ❖ The system also should have good response time.

3.3 Use Case Modeling and Description:

Use case modeling is a useful tool for requirements elicitation. It provides a graphical representation of the software system's requirements. [2]

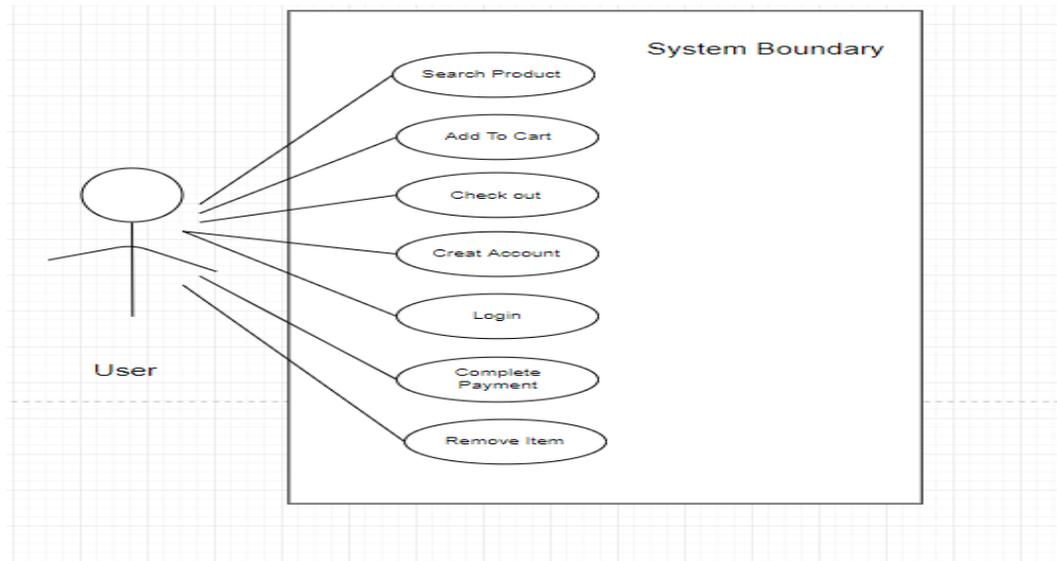


Figure 3.2: Use Case Model for Examinee or Public User

Use case is most important to represent a system to understand a system before developing. Use Case help us to in depth about proposed system. In use case we define different a actors and actors role base on proposed system. So therefore based on requirement and problem we define two types actors who are admin and user. In figure 3.2 show that user can search their products. Figure 3.2 showing that communication between user and our proposed system search their product by voice command.

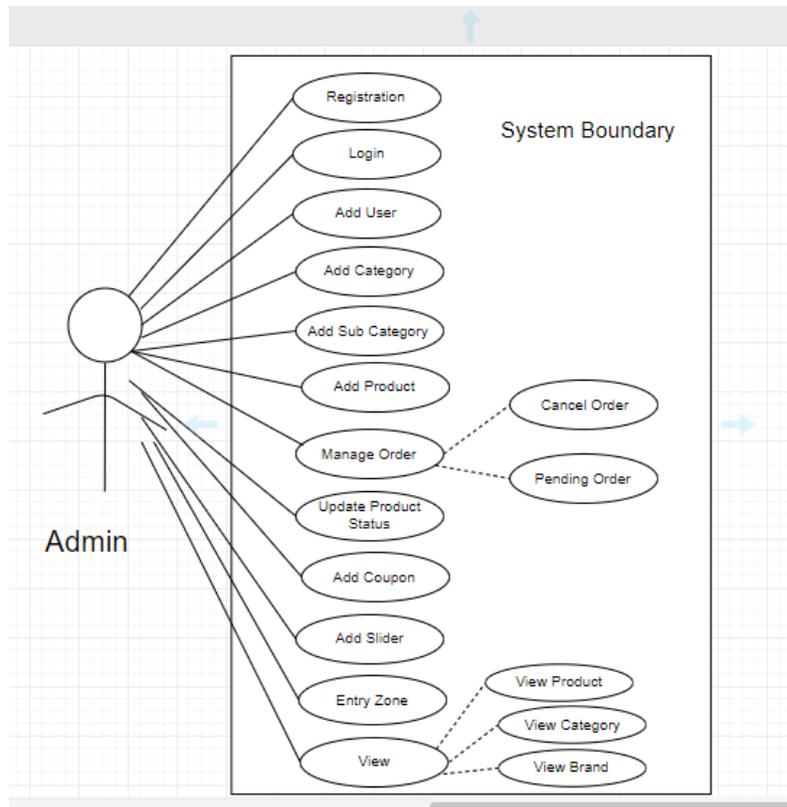


Figure 3.3: Use Case Model for Admin User

Figure 3.3 showing that communication between admin and proposed systems. In Proposed System admin has big role such as add product, manage product, cancel order, confirm order, system setting, user create, manage order product and offer product etc.

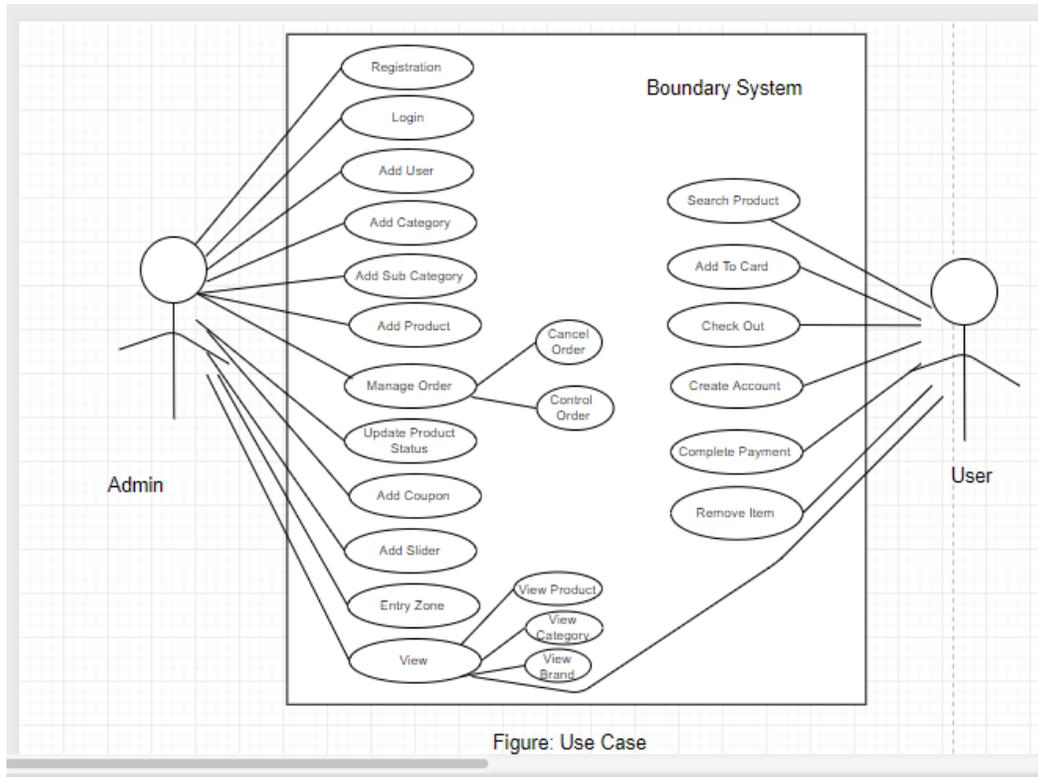


Figure 3.4 showing that admin user and public user integration with respect to our System.

3.4 Design requirements

User attraction is much more important for any application. We focus user requirements and need for developing more user friendly system and GUI.

- ❖ Real time response for user.
- ❖ Can search product easily by command.
- ❖ Admin add product, manage product very easily.
- ❖ Admin can view product information and manage products in short time.

3.5 Representation of logical Data Model

A logical model contains representations of entities and attributes, relationships, unique identifiers, subtypes and super types, and constraints between relationships. A logical model can also contain domain model objects, or reference one or more domain or glossary models. After logical objects and relationships are defined in a logical data model, you can use the workbench to transform the logical model into a database-specific physical representation in the form of a physical data model. [3]

1. Selected entities.
2. Used primary and foreign key foreign key for each entities.
3. Attributes are defined based on requirements.
4. Used Normalization terms.
5. Also used one to one and many to many relationship based on proposed system.
6. Resolve many-to-many relationships.

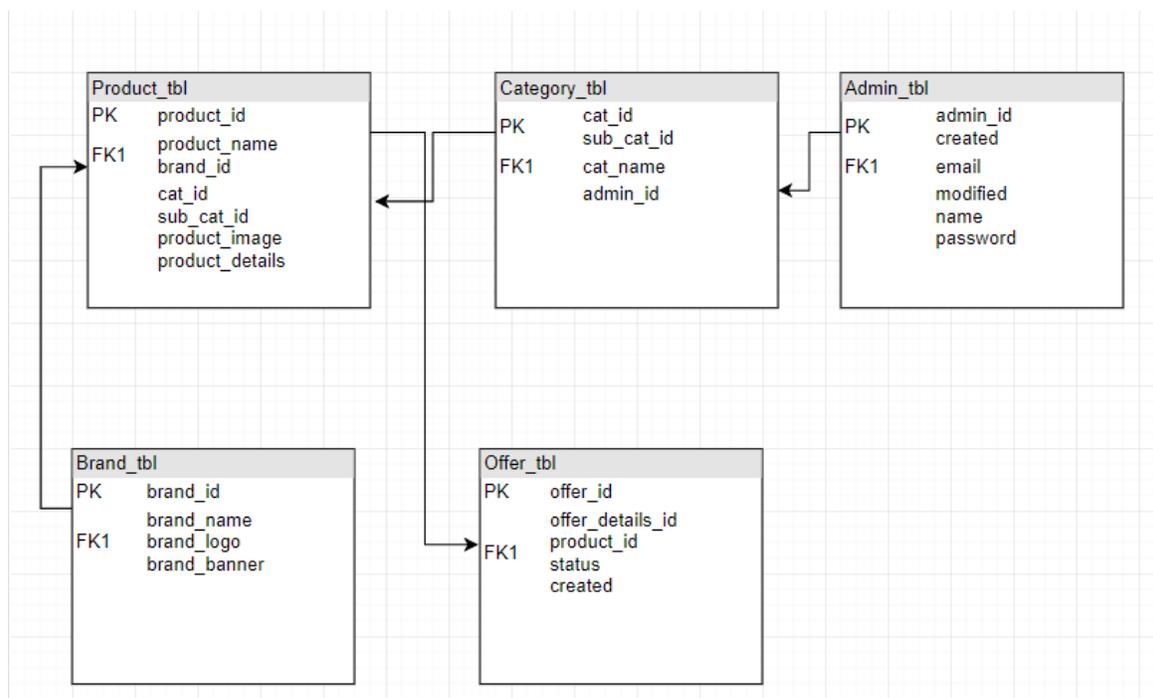


Figure 3.5: Logical Data Model for voice-e-commerce system.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design Specification

We designed very user friendly front-end. According to user expectation we use all of common features in this ecommerce system and add new feature query using voice. Here we consider two types user (Public user and Admin user).

- Only Admin user will login using simple login form. Login field are email address and password.
- Public user can search and order products. They can easily place their order any time

4.2 Back-end Design Specification

The back-end functions or designed is more user friendly, so that new or old any user can interact with admin system.

- System admin will manage the software using default settings of the software.
- System has a default user and then default admin user will add another admin.
- Admin will add product.
- Admin will manage product
- Admin will confirm order.
- Admin will cancel order.
- Admin will create offer product.
- Admin will provide discount for specific product.

4.3 Interaction Design and UX

Interaction between the user and system (websites or apps). Purpose is creating system that allow user to achieve objective in the best way possible. It's also useful, easy to use, user-friendly, and technically feasible. Buttons, Labels, photos, Typography, Icons are common tools for interaction. Various kind of interaction may give the experience of the use of the system. By using the user experience we can develop, update or change on next demand.

4.4 Implementation of Requirements

4.4.1 HTML

Hypertext Markup Language (HTML) is the formatting language for a hypertext or hypermedia document, viewable with a web browser. All web pages are written in HTML. It works with CSS and JavaScript more user friendly [4].

By using HTML User interfaces for mobile, tablet, computers can be design. Any web base information is shown by HTML pages. HTML5 the latest release of HTML used by us to create this e-service.

4.4.2 CSS

CSS means Cascading Style Sheets which handles the look and feel part of a web page. Along with HTML and JavaScript, CSS is a corner stone technology used by most web systems creates visually engaging web pages, user interface for web application as well as mobile application. We have used CSS3 for our system design [5].

4.4.3 JavaScript

JavaScript is a client-side scripting language commonly used in web development. JavaScript code can be inserted anywhere within the HTML of a webpage.

By using this language we can easily add validation, logical conditions on client-site. It also gives some interactive look for websites. Now a day's modern browsers support JavaScript. We used JavaScript for making our web more dynamic reliable. [6]

4.4.4 MySQLi Database

To store any information's we need to create database and to create a database we have to use database management system. Here we used MySQLi to create database which is open source relational database management system and use a standard form of SQL data language. MySQL queries are very friendly with PHP. So that for creating and designing our database for the system we used MySQLi[7].

4.4.5 PHP (Code Igniter framework v3.1.7)

PHP stands for Hyper Text Preprocessor, is a server site scripting language. And Code Igniter framework is the most popular framework which does the work by the MVC model system. I use latest current Code Igniter v3.1.7 version. The most common use for PHP is to develop web apps with HTML, CSS, JavaScript, and MySQL. PHP also use for general purpose programming language. PHP code embedded into html code. [8]

4.4.6 Bootstrap

Front-end component library Bootstrap is free open source HTML, CSS, and JavaScript framework for developing responsive, mobile-first web sites. HTML and CSS is used to create. It makes the more user friendly web interfaces. We used Bootstrap 4.0 for our ecommerce [9].

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

A database management system handles the requests generated from the SQL interface, producing or modifying data in response to these requests. This involves a multilevel processing system [10].

- Needed Database normalization to remove data redundancy.
- Define user/Admin by role.
- Build relationship schema for accuracy result.
- Adding constraints for data integrity.
- Database administrator assigns the permission according to purpose of uses.

5.2 Implementation of Front-end Design

Home Page

Figure 5.1 shows that. The user searches their product by command .The user also type their product. The user adds their product into cart.

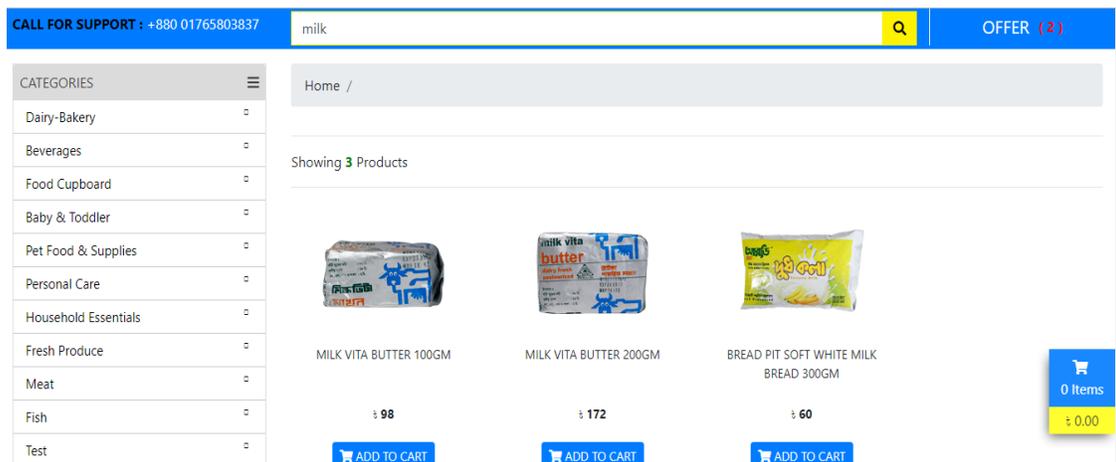


Figure 5.1: Home Page of voice e-commerce System.

Shopping Cart

Figure 5.2 shows that, the user add item into shopping cart after searching specific result.

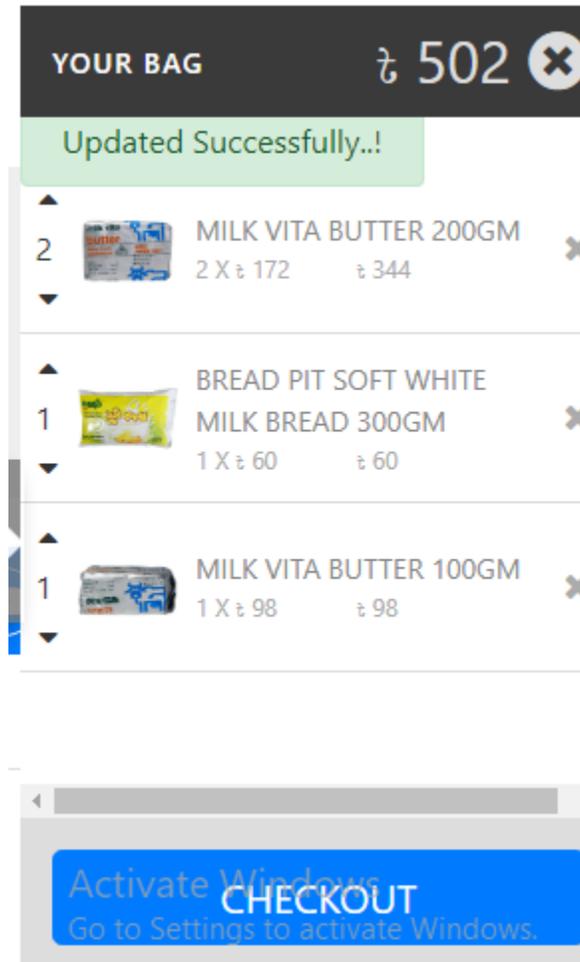


Figure 5.2: User Add item to Cart.

User Sign Up.

Home / [CREATE AN ACCOUNT](#)

CREATE AN ACCOUNT

Enter your name

Enter your mobile number

Enter your E-mail address

Submit

Figure 5.3: Create User Account.

Login Page

Figure 5.4 shows that, the customer sign In form.

Home / [Customer Login](#)

Enter your mobile number

Mobile no's minimum length is 13 digit.

LOGIN

Figure 5.4: sign in Page

User Payment Option

Delivery Address [← BACK TO SHOPPING](#)

TO ADD A NEW ADDRESS, PLEASE FILL OUT THE FORM BELOW.

Full Name *
Md shaokat Hossain

Mobile Number to Contact *
01834163689

Choose your Delivery Zone *
Dhanmunddid

Delivery Address *
Address including House, Road, Block, Address, Zip, Country

Your Special Instruction
Enter Special Instruction

Cart Total	₳ 502
Shipping Charge	₳ 0
Total VAT	₳ 0
Total Price	₳ 502

[← Back to Shop](#) [Choose Payment Option →](#)

3 Items
₳ 502

Activate Windows
Go to Settings to activate Windows.

Figure 5.5: User Payment Option.

Dashboard of Admin Panel

Figure 5.6 shows that, whole about admin dashboard, where a admin login by the login panel .An admin can manage the whole system according to role. An admin can manage product, add product, cancel order, confirm order, and can set all system configuration.

The screenshot displays the Admin Panel Dashboard for 'Amarbazar'. On the left is a green sidebar menu with options: Dashboard, Brand, Category, Product, Order Info, Zone & Area, Coupons, System Settings, Settings, Customer, Admin, Add Slider, and Logout. The main content area features a header with filters for 'Select a category', 'Select Sub category', and 'Select Brand'. Below this is a table listing products with columns for SL. No., Product ID, Product Name, Image, Product Status, and Actions. The table shows 10 entries, with the first 10 visible. A search bar and pagination controls are also present.

SL. No.	Product ID	Product Name	Image	Product Status	Actions
1	5	BREAD PIT SAND & TOAST WHITE BREAD 500GM		Active	
2	9	CHINGRI GOLDA BIG (5-8) PCS/KG		Active	
3	10	HILSHA FISH BIG		Inactive	
4	8	Lolita Dry Fish		Active	
5	1	MILK VITA BUTTER 100GM		Active	
6	6	BREAD PIT SOFT WHITE MILK BREAD 300GM		Active	
7	7	FRESH HOME MADE BUN BIG 200GM		Active	
8	11	CHINGRI HORINA		Active	
9	3	AARONG BUTTER 200GM		Active	
10	4	MILK VITA BUTTER 200GM		Active	

Figure 5.6: Dashboard of Admin Panel

Add Brand

Figure 5.7 admin can add brand according to requirement.

The screenshot shows the 'Manage Brand' page. At the top, there is a breadcrumb 'Home / Brand' and a '+ Add Brand' button. Below is a table with columns for SL. No., Brand ID, Brand Name, System Setting Status, and Actions. The table lists two brands: 'Aarong' and 'PRAN', both with 'Active' status. A search bar and pagination controls are also visible.

SL. No.	Brand ID	Brand Name	System Setting Status	Actions
1	1	Aarong	Active	
2	2	PRAN	Active	

Figure 5.7: add brand

Add Category and Sub Category

Figure 5.8 shows that category and sub category form. In here, an admin add category and subcategory according to the requirement.

Home / Category

Manage Category + Add New Sub Cat + Add New Cat ✖

Show entries Search:

SL. No.	Cat ID	Cat Name	Type	System Setting Status	Actions
1	1	Dairy-Bakery	Main	Active	   
2	2	Beverages	Main	Active	   
3	3	Food Cupboard	Main	Active	   
4	4	Baby & Toddler	Main	Active	   
5	5	Pet Food & Supplies	Main	Active	   
6	6	Personal Care	Main	Active	   
7	7	Household Essentials	Main	Active	   
8	8	Fresh Produce	Main	Active	   
9	9	Meat	Main	Active	   
10	10	Fish	Main	Active	   

Showing 1 to 10 of 35 entries Previous 1 2 3 4 Next

Go to Settings to activate Windows.

Figure 5.8: Category and sub Category

Product Mangle

Figure 5.9 shows that, the product form .An admin can add product and manage product.

SL. No.	Product ID	Product Name	Image	Product Status
1	3	AARONG BUTTER 200GM		Active
2	4	MILK VITA BUTTER 200GM		Active
3	8	Loitta Dry Fish		Active
4	10	HILSHA FISH BIG		Inactive
5	6	BREAD PIT SOFT WHITE MILK BREAD 300GM		Active
6	2	AARONG BUTTER 100GM		Active
7	5	BREAD PIT SAND & TOAST WHITE BREAD 500GM		Active
8	1	MILK VITA BUTTER 100GM		Active

Act Go 1

Figure 5.9: Manage Product

Product Entry Form

Figure 5.10 shows the product entry system for admin. Firstly Admin Need to select category, sub category and finally brand name for product identity.

The screenshot shows a web form titled "Add Product". It contains several input fields and controls:

- Category Name:** A dropdown menu with "Dairy-Bakery" selected.
- Sub Category Name:** A dropdown menu with "Dairy" selected.
- Brand name:** A dropdown menu with "Aarong" selected.
- Product Name:** A text input field containing "Sky Blue Erri Embroid".
- Product Image:** A "Choose File" button and a "No...n" label.
- Details:** A rich text editor with a toolbar containing icons for undo, redo, bold, italic, underline, text color, background color, bulleted list, numbered list, link, unlink, and help. The editor area is currently empty.
- Main Price:** A text input field containing "546".
- Unit:** A dropdown menu with "Pice" selected.
- Discount:** A text input field containing "7".
- Stock:** A dropdown menu with "Available" selected.
- Other:** A group of checkboxes: "Discount" (checked), "Out Of Stock" (unchecked), and "Best Sell" (unchecked).
- Buttons:** "Submit" (green) and "Reset" (grey).

Figure 5.10: Product Entry Form

Pending Order List

Figure 5.11 shows that, all order lists by customers. Whenever a customer order item by visit our Site the all items shows in this panel .A admin can manage order like confirm order.

The screenshot shows a "Pending Order" list. The table has the following data:

SL. No.	Invoice No	Customer Name	Customer Number	Status	Order Time	Actions
1	C1104	Md.zahedul Karim	01765803837	Pending	2018-11-21 06:43:51	

Showing 1 to 1 of 1 entries

Previous 1 Next

Figure 5.11: Pending Order List

Confirm Order List

Figure 5.12 shows all confirm order list by admin.

Order / Complete Order

Complete Order

Show 10 entries Search:

SL. No.	Invoice No	Customer Name	Customer Number	Status	Order Time	Actions
1	C1104	Md.zahedul Karim	01765803837	Complete	2018-11-21 06:43:51	

Showing 1 to 1 of 1 entries

Previous 1 Next

Figure 5.12: Confirm Order List

System Setting

Figure 5.13 shows that system information controlled and managed by admin .Admin can set up All require information by dynamically

Home / System Setting Management

Manage System Setting + Add System Setting

Show 10 entries Search:

SL. No.	System Setting ID	System Name	System Title	Phone	Logo	Address	Email	Currency	language	System Setting Status	Actions
1	2	Amar Bazar	Amar Bazar	01765803837		Dhanmondi, Dhaka, Bangladesh.	info@Amar.com	BDT	English	Active System Setting	

Showing 1 to 1 of 1 entries

Previous 1 Next

Figure 5.13: System Setting

Order Invoice

Figure 5.14 shows that order invoice generated by the system and all product information's.

Home / [Order Invoice Information](#)

Order Invoice Print

Invoice Number : C1104
Customer Name : Md.zahedul Karim
Mobile Number : 01765803837
Order Date : 2018-11-21

Product Details

SL. No	Product Name	Qty	Price	T. Price
1	MILK VITA BUTTER 200GM	1	₳ 172	₳ 172
2	BREAD PIT SOFT WHITE MILK BREAD 300GM	1	₳ 60	₳ 60
3	CHINGRI GOLDA BIG (5-8) PCS/KG	1	₳ 1,250	₳ 1,250
Total				₳ 1,482
Discount				₳ 0
Grand Total				₳ 1,482

Figure 5.14: Order Invoice

Voice Search System

Voice based devices/applications are growing a lot. Today, there are Google Assistant, Alexa which takes our voice as input, process them and perform actions based on it. It uses state of art process in Speech to Text, Natural language understanding, deep learning and Text to speech [11].

Figure 5.15 This is our final system that we are implemented to purpose of voice search that means hand free search (user not need to type for their specific information) .The user just need to open our system then user speak something to our system for finding their information based on our system. Whenever user says something our system is capable to detect speech. After detecting voice by the our system the system show the specific product from the database, If our system can't find any information base on user query then your system doesn't show anything.

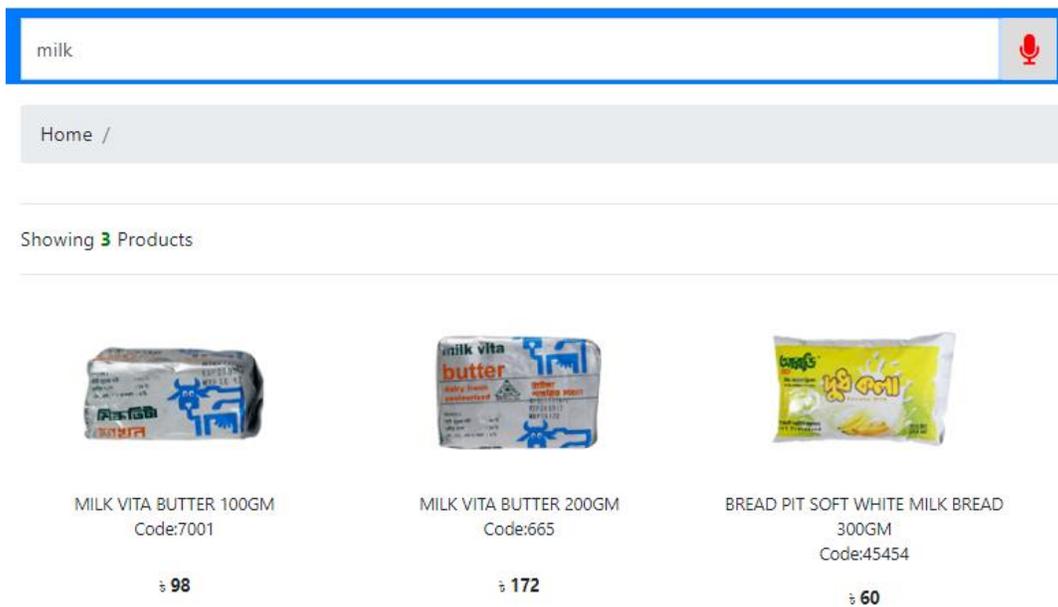


Figure 5.15 Voice Search.

5.3 Implementation of Interactions

To make our system (**Voice E-commerce System**.) I have implemented interactive UI for better user experience. In many cases we have used interactive icon rather than text link or button. The system designed with sequence of consecutive steps to help user and admin. The voice e-commerce system Representative Admin will maintained the whole System very easily.

5.4 Testing Implementation

Testing implementation is process of testing upcoming implementation of a system, where tester or system architect will see cases and specification, is it implementable or have limitations.

Implementation testing requires following parameters:

- **Technologies, Example:** HTML, CSS, Client-side Scripting language, voice transmission, chat, images etc.
- **Type of a site:** E-commerce, Daraz.com, Ajkerdeal.com, chaldal.com etc.
- **Language of a site:** English, Japanese, German, Spanish, Korean, Arabic etc.

Needed to check core point, is the website will help to do all core functionalities. Content support and cross-site and cross-domain checking issues also needed to be considered.

5.5 Test Results and Reports

We performed required test cases according to development criteria. Different test cases have made for a specific process and stored all test case results accordingly to interpret all result.

This will help to make decision with better level of accuracy.

We have made cycle wise and automated testing to make better decision. Once test results are deliverable, then it has been released. A test result should be evaluate according to DOD (Definition of done) of specific part of a project.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

The main intention and the characteristics are to reduce user valuable search time and faster search. The main aim of the project is hand free search and real time response. During the development we faced lot of problems to integrate voice search into our system. Our system helps the user and authority to increase sales rate. We think, our system makes easier life and more advance in future.

6.2 Scope for Further Developments

Future task and action for the project:

- ❖ Improving search quality.
- ❖ Improve and apply better algorithm for voice search.
- ❖ Improve real response time.
- ❖ Accuracy result.
- ❖ Easier GUI for both admin and user.

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APPENDICES

Appendix A:

Reflection of Project: We started work from spring 2018 for creating a user-friendly and Flexible platform; in where user can search their product by hand free command (voice search) within short time. We have followed related article (speech reorganization) and model for implement to achieve our goal, and finally we are successful.

Appendix B:

Project Details: The “project voice based e-commerce “will be very informative and helpful for user. A user can search and view product by voice command instead of typing keyboard. Therefore, The project “voice based e-commerce system will reduce user time and increase response time .The purpose of the system is voice search by user instead typing keyboard.

