

# **Implementation of an e-Commerce Site for SME (Small to Medium Enterprise)**

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This paper is an essential fragmentary of the total completeness of the Degree of Bachelor Science in Electronics and Telecommunications Engineering at East West University.

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## Certificate

Certified that the Project Implementation of an e-Commerce site for SME (Small to Medium Enterprise) has been submitted by Lamia Kibria (ID:2013-2-55-029), Md. Abu Yousuf Sarker Shawon (ID:2013-2-55-006) and Md. Mahabubul Hasan (ID:2013-2-55-017) to the Department of Electronics and Communications Engineering of Faculty of Science and Engineering at East West University, Dhaka, Bangladesh which is required to the partial fulfillment of the Bachelor's degree in Electronics and Telecommunications Engineering .This project has been carried out under our guidance and supervision.

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## **Synopsis**

This project offers a professional standard database for a small to medium enterprise which is fronted by a online website named Online biponi.com which will facilitate a business owner or company with lower cost , good relationship with customers, accessibility, large number of customers, access to info and customer's satisfaction. It will also support the stuffs, owners and clients to distribute the products and services efficiently and effectively.

## **Acknowledgement**

Thanks to Merciful Allah for the countless blessing to us. He has given all the gifts, generous grace, kindness, the mental and physical strength to complete the project successfully.

We would like to express the gratitude to our supervisor Assistant professor Dr. Mohammad Arifuzzaman of department of Electronics and Communications Engineering for his effort, invertible guidance, valuable suggestion, support and time throughout our project.

We are grateful to our parents without their support, affection and love the project complete was not possible.

Nevertheless we would like to also thank my friends of Electronics and Telecommunications Engineering batch summer 2013 and all the faculty members of ECE Department.

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## **Chapter 1: Introduction**

This project is a customized for an e-Commerce site for any small to medium enterprises. This project has been designed by keep in mind to solve the existing problems of that type of sites in Bangladesh and to promote the online trades through Internet in our country like developed ones.

### **1.1 Motivation**

There are some problem in online based e- Commerce websites and databases that are

1. There are some reliability issues for which many of business personnel are not interested to use an online business.
2. If sites are not updated regularly it will give a negative impression to the user and the customers.
3. There are also SPAM and bad publicity issues.

That problem motivated us to create such a project.

### **1.2 Objective**

User and Customers can visit the page, create their wish list and buy product according to their choice by adding or non-adding products to their cart. The information of customers will be collected and saved in the database for the purpose of safety and reliability. Administrator has the authority to add, delete or edit any information of products, customers or any data of the database.

### **1.3 Purpose**

Creating more Error free, updated, reliable and licensed web applications to the clients and the customers.

### **1.4 Structure of the project**

For Designing of the project we have segmented the procedure sequentially in

1. Activities of systems
2. Requirements
3. Specification of design
4. Specification of codes
5. Implementation
6. Future aspects and updates

## **Chapter 2: Activities of systems**

### **2.1 User activities**

- i. They can search for products.
- ii. They can view products details, new arrival products, discount products & most view products.

### **2.2 Customer activities**

- i. They can order any product.
- ii. They can see the billing details.

### **2.3 Admin Activities**

- i. They can add, edit & delete product.
- ii. They can view product details.
- iii. They can view customer order details.
- iv. They can add category list of product.

**Chapter 3: Requirements**

**3.1 Case Diagram**

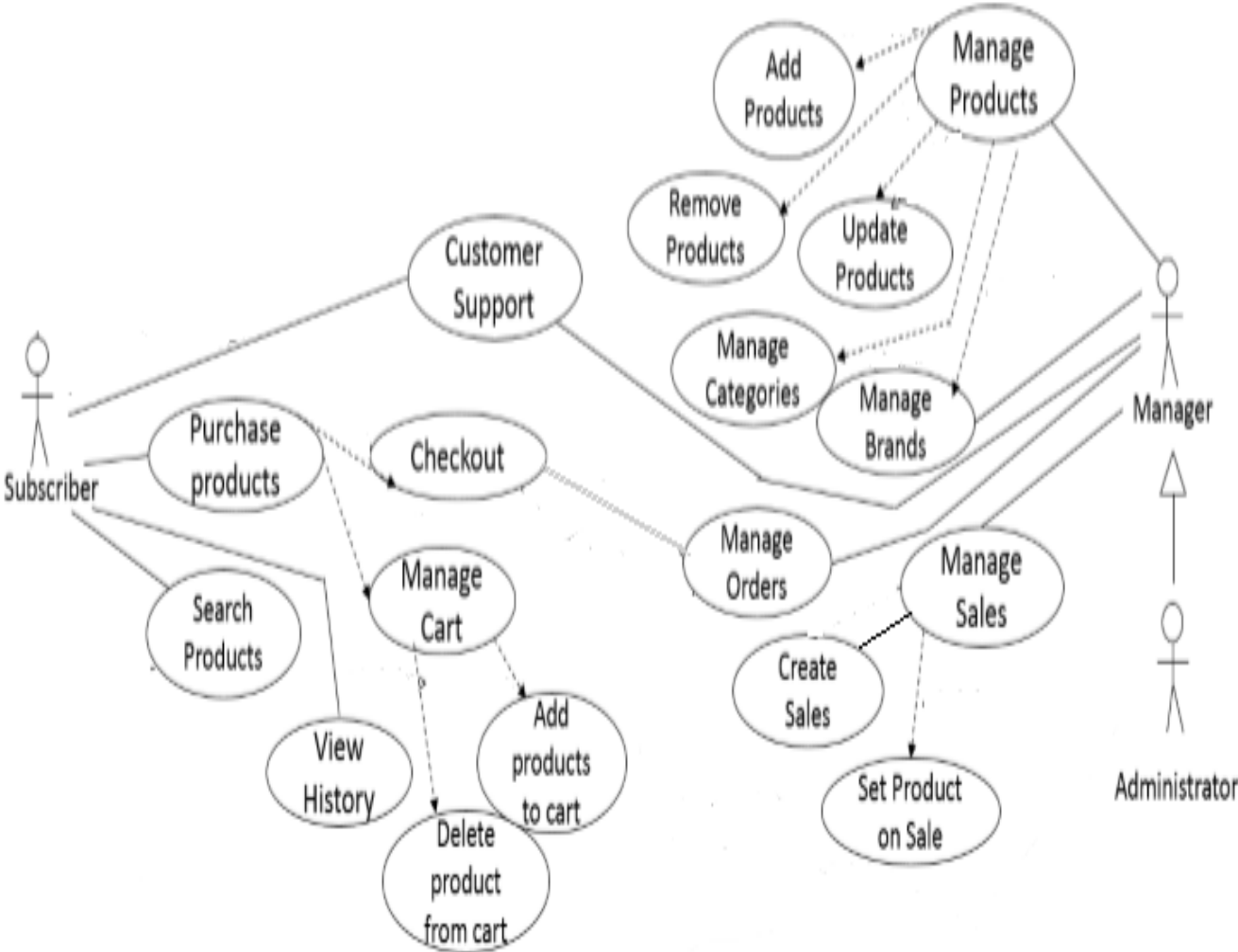


Fig 3.1: Case Diagram

### 3.2 Activity Diagram

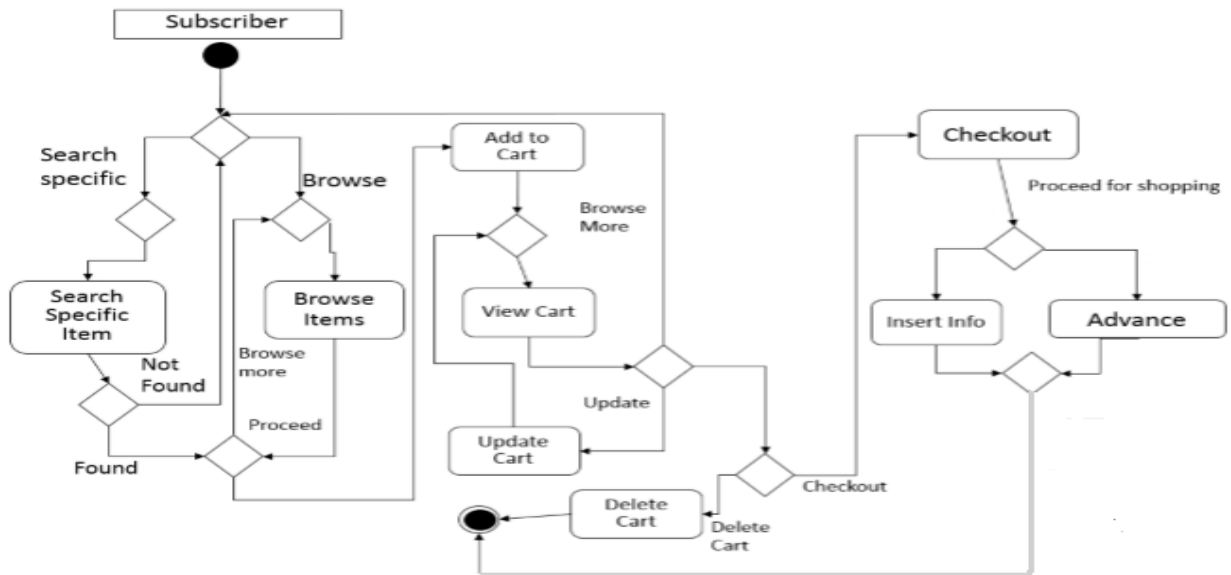


Fig 3.2: Activity diagram

### 3.3 Software requirement:

#### 1. Web Server(Apache Server (XAMPP) [Version: 3.2.2 and above]:

Apache[1] is the most widely used web server software. Developed and maintained by Apache Software Foundation, Apache is an open source software available for free. It runs on 67% of all web servers in the world. It is fast, reliable, and secure. It can be highly customized to meet the needs of many different environments by using extensions and modules. Most WordPress hosting providers use Apache as their web server software.

#### 2. Database Management System(MySQL):

MySQL[2] is a freely available open source Relational Database Management System (RDBMS) that uses Structured Query Language (SQL). SQL is the most popular language for adding, accessing and managing content in a database. It is most noted for its quick processing, proven reliability, ease and flexibility of use.

### **3. Server side language(PHP):**

**PHP[3]** The most popular server-side language on the web, PHP is designed to pull and edit information in the database. It's most commonly bundled with databases written in the SQL language. PHP was designed strictly for the web and remains one of the most widely used languages around. It's easy to install and deploy, is staying competitive with lots of modern frameworks, and is the foundation for a number of content-management systems. PHP-powered sites: Word Press, Wikipedia, Facebook

### **4. HTML:**

First developed by Tim Berner Lee in 1990, HTML [4] is short for Hyper Text Markup Language . HTML is used to create electronic documents (called pages) that are displayed on the World wide web. Each page contains a series of connections to other pages called hyperlinks. Every web page seen on the Internet is written using one version of HTML code or another. HTML code ensures the proper formatting of text and images so that your Internet browser may display them as they are intended to look. Without HTML, a browser would not know how to display text as elements or load images or other elements. HTML also provides a basic structure of the page, upon which Cascading Style sheet are overlaid to change its appearance. One could think of HTML as the bones (structure) of a web page, and CSS as its skin (appearance).

### **5. CSS:**

CSS[5] is a language that describes the style of an HTML document.CSS describes how HTML elements should be displayed.

It is much easier to maintain the appearance of a Web site. If one use a single CSS file updating this file allows the Web site look-and-feel to be altered easily; in contrast use of HTML formatting elements would require every file to be updated to change the appearance.

CSS provides rich functionality, including defining the appearance of HTML pages when they are printed.

Use of CSS provides much greater accessibility, allowing users with special needs to alter the appearance of a Web page to suit their requirements. CSS also allows Web pages to be more easily rendered by special devices, such as speaking browsers.

### **6. BOOTSTRAP:**

Bootstrap [6] is the most popular HTML, CSS, and JS framework for developing responsive, mobile first project on the web.

## 7. JavaScript:

The most common use of **JavaScript** [7] is to add client-side behavior to HTML pages, also known as Dynamic HTML (DHTML). Scripts are embedded in or included from HTML pages and interact with the Document Object Model (DOM) of the page.

## 8. JQuery:

**jQuery**[8] is a cross-platform JavaScript library designed to simplify the client-side scripting of HTML. It is free, open-source software using the permissive MIT license. Web analysis indicates that it is the most widely deployed JavaScript library by a large margin

## 9. Version Control Software(github):

Github[9] is a development platform inspired by the way anyone work .From open to Business , one can host and review code , manage projects, and build software alongside millions of other developers.

## 10. Text Editor(Brackets):

Brackets is a open source text editor that lets one efficiently design, develop and maintain standard based websites and applications. Bracket provides a powerful combination of visual layout tools application, development features and code editing support.

## 11. Browser:

Any browser can open and support the server and website.

# Chapter4: Functionalities

## 4.1 Product Searching

Users can search for products in a more convenient way through features like-

### 4.1.1 Sort by key-word

Our application's search bar provides the users with auto-suggestions by matching the keywords to any product related info and shows it below the search bar. This piece of AJAX functionality is managed completely with plain and Javascript code. No jQuery or any other library was used for this part of the functionality to maintain simplicity.



Fig 4.1: Sort by key word

### 4.1.2 Sort Search Result

Users can sort the search result to their likings, sorting can be done considering products’-

- Price (High to Low/ Low to High)
- Categories
- Brand Names

## 4.2 Cart Functionalities

**Online Biponi.com** cart system provides convenient features for users to help product purchasing ore interactive.

### 4.2.1 Add to Cart

Users add their to be purchased products to the cart.

### 4.2.2 Addition Deduction

After a user adds a certain number of products to a cart he/she might come to a decision to add another piece of the product to the cart or deduct by one. This fine-tuning feature is implemented on the cart to increase customer satisfaction.

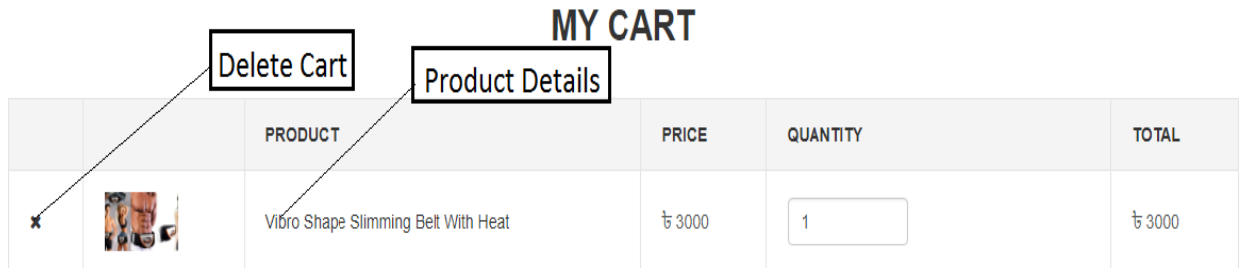


Fig 4.2: addition deduction of cart



### 4.2.3 Delete Cart

Cart deletion can be performed to discard a cart full of products and continue with a new one.




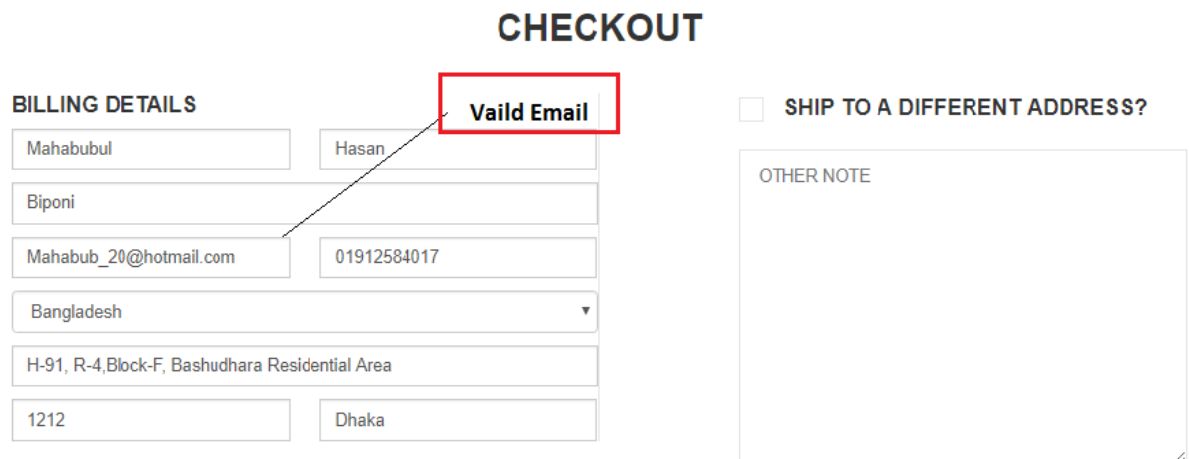
	PRODUCT	PRICE	QUANTITY	TOTAL
	Vibro Shape Slimming Belt With Heat	₹ 3000	1	₹ 3000

Fig 4.3: Delete Cart

### 4.3 Checkout

Users can checkout only using valid phone number and email address. The validity and authentication is managed by Stripe- a well renowned, accredited API for handling payment procedures globally, and supporting user with by providing convenience.



**CHECKOUT**

**BILLING DETAILS**

Mahabubul Hasan

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Bangladesh

H-91, R-4, Block-F, Bashudhara Residential Area

1212 Dhaka

SHIP TO A DIFFERENT ADDRESS?

OTHER NOTE

Fig 4.4: checkout

## 4.4 User Feedback

Users can give their Feedback on products, which can be removed later by the users at will.

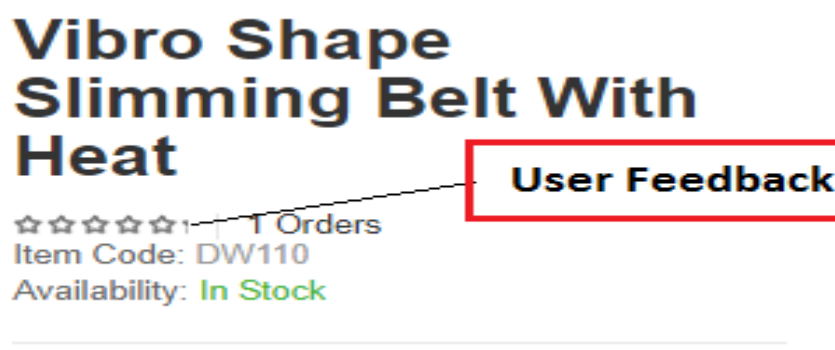


Fig 4.5 User feedback

## 4.5 Product Details

Product detail page shows a details information about stock, price, brand, category etc.

**PRODUCT DETAILS** | **REVIEWS (0)** | **DELIVERY INFO** | **HOW TO ORDER**

### Product Detail

শরীরের অতিরিক্ত মেদ/চর্বি কমিয়ে আপনাকে দেবে স্লিম ফিগার যা আপনাকে আরও বেশী আকর্ষণীয় করে তুলবে।  
কঠিন ও দীর্ঘসময় ধরে পরিশ্রম ছাড়াই খুব অল্প সময় নিয়মিত ব্যবহারের মাধ্যমে আপনার শরীরকে রাখুন নিয়ন্ত্রনে কোন পার্শ্বপ্রতিক্রিয়া ছাড়াই। প্রডাক্টটি সম্পর্কে ভালোভাবে জানতে ভিডিও লিঙ্কটিতে ক্লিক করুন।

**\*\*How to works:**  
<https://www.youtube.com/watch?v=JVPMgJUfguM>

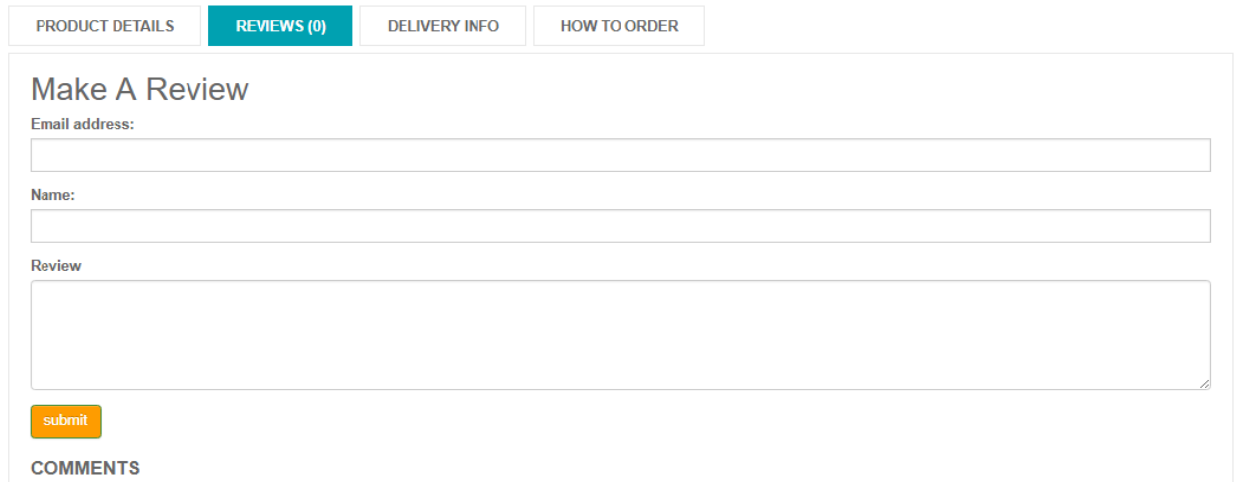
**\*\*How To Use:**

1. Use 2-3 times per day.
2. Select 2-3 body area from legs area, arms area, back area, belly area per time.
3. Use 10 minutes per area for protecting motor.
4. Drink 200-500ml water after one-time performance.
5. One hour after dinner to use(not use at once after dinner).

Fig 4.6 Product detail

## 4.6 User Review

Users can give their review on products when order proceeds.



The image shows a user review form interface. At the top, there are four tabs: 'PRODUCT DETAILS', 'REVIEWS (0)', 'DELIVERY INFO', and 'HOW TO ORDER'. The 'REVIEWS (0)' tab is highlighted in teal. Below the tabs, the form is titled 'Make A Review'. It contains three input fields: 'Email address:', 'Name:', and 'Review'. The 'Review' field is a large text area. Below the input fields is an orange 'submit' button. At the bottom of the form, there is a 'COMMENTS' section.

Fig 4.7: User review

## 4.7 Recently viewed products

This portion makes good use of cookies to keep and show the recently viewed products by a user.

## 4.8 Related Products

This part shows the related products to the current one in a sense that the users could potentially be interested to purchase them. (i.e., same category or frequently bought together) These products suggestions are derived and fetched from accessing the cart data and finding the products those were sold together more frequently than the other products.

## **Chapter5: Database Management**

Database Design: Database design is the process of producing a detailed data model of a database. This data model contains all the needed logical and physical design choices and physical storage parameters needed to generate a design in a data definition language, which can then be used to create a database.

My database name is “shop”.

### **5.1 Database Tables**

In relational databases and flat file databases, a table is a set of data elements (values) using a model of vertical columns (identifiable by name) and horizontal rows, the cell being the unit where a row and column intersect. A table has a specified number of columns, but can have any number of rows. I have total of 11 tables. They are-

- account
- admin
- cart\_detail
- cat
- checkout
- Customer
- order cart
- product
- review
- shipping
- Sub cat

## 5.2 List of All Tables:

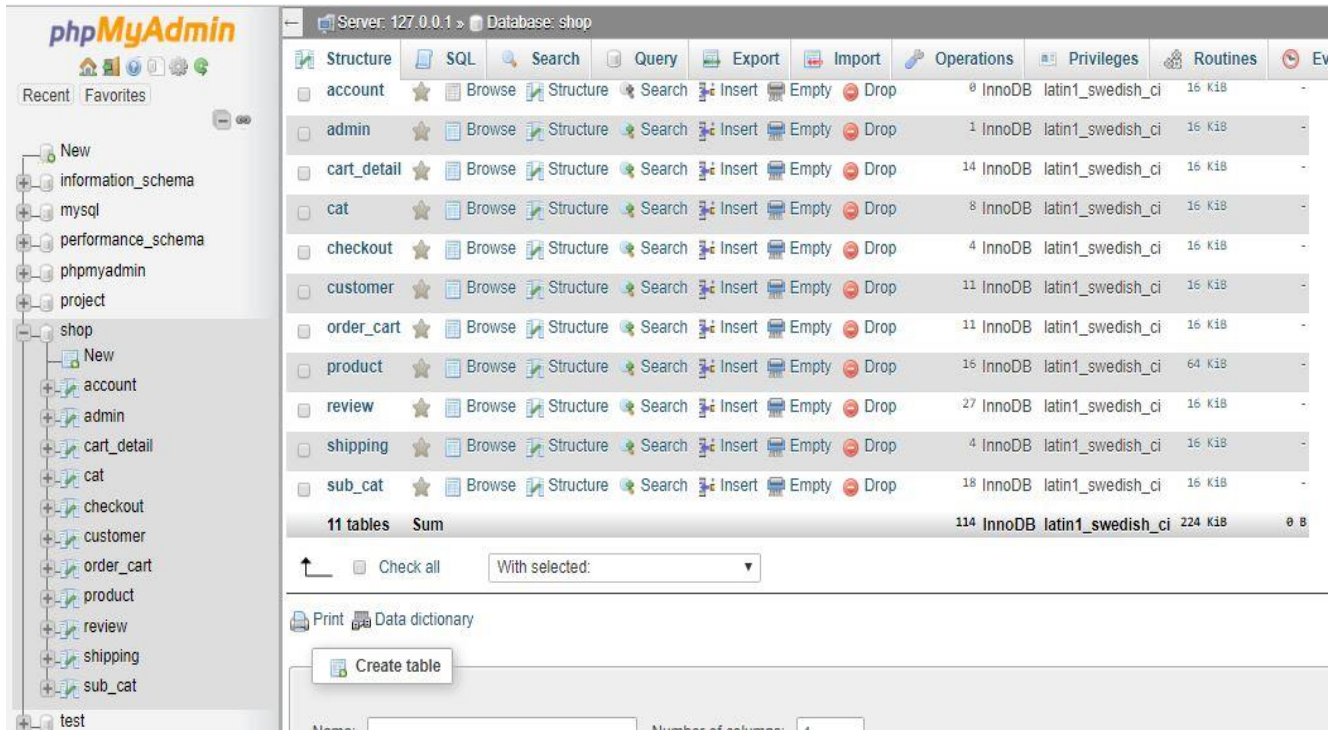


Fig 5.1: List of all tables

### 5.2.1 Account Table:

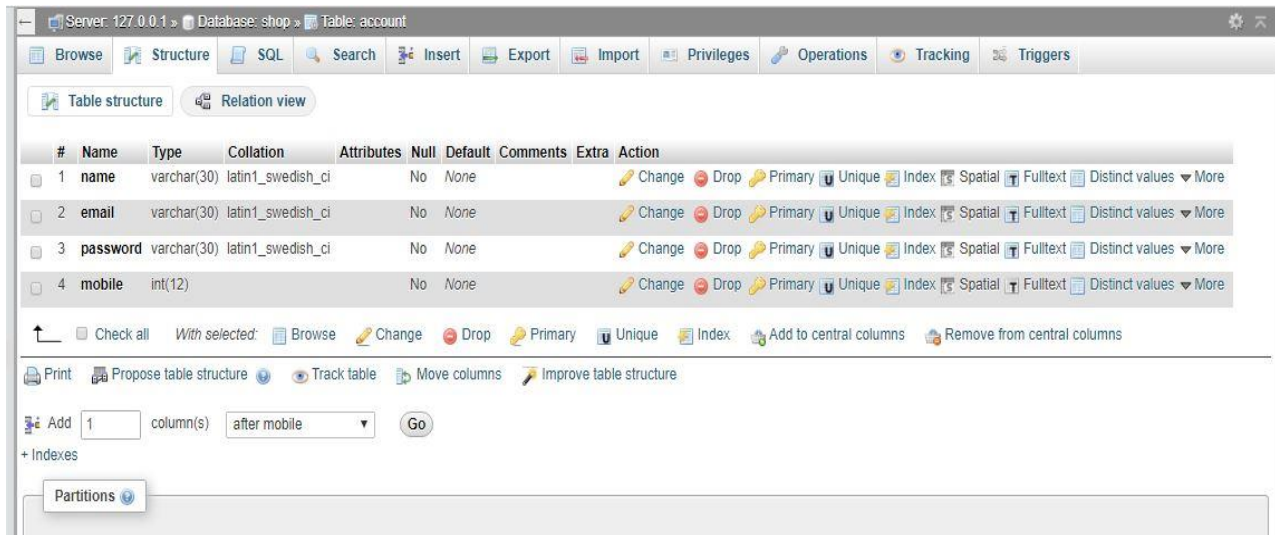


Fig 5.2: Account table

## 5.2.2 Admin Table:

Server: 127.0.0.1 » Database: shop » Table: admin

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	admin_id	int(11)			No	None		AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext More
2	email	varchar(50)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext More
3	pass	varchar(20)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext More

Check all With selected: Browse Change Drop Primary Unique Index Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Improve table structure

Add 1 column(s) after pass Go

+ Indexes

Fig 5.3: Admin table

## 5.2.3 Cart detail Table:

Server: 127.0.0.1 » Database: shop » Table: cart\_detail

Showing rows 0 - 13 (14 total, Query took 0.0017 seconds)

SELECT \* FROM 'cart\_detail'

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ ]

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

	cart_detail_id	order_cart_id	product_id	qty	per_price	discount	total
<input type="checkbox"/>	1	82	3	2	7000	0	14000
<input type="checkbox"/>	2	84	8	1	960	0	960
<input type="checkbox"/>	3	84	9	1	1000	0	1000
<input type="checkbox"/>	4	84	10	1	3000	0	3000
<input type="checkbox"/>	5	84	6	1	590	0	590
<input type="checkbox"/>	6	84	3	2	7000	0	14000
<input type="checkbox"/>	7	85	4	1	2200	0	2200
<input type="checkbox"/>	9	87	14	1	950	0	950
<input type="checkbox"/>	10	87	2	3	5950	0	17850
<input type="checkbox"/>	11	87	4	1	2200	0	2200
<input type="checkbox"/>	14	88	10	1	3000	0	3000
<input type="checkbox"/>	15	89	10	1	3000	0	3000
<input type="checkbox"/>	16	89	2	4	5950	0	23800
<input type="checkbox"/>	17	89	6	1	590	0	590

Fig 5.4: Cart detail table

## 5.2.4 Cat Table:

Server: 127.0.0.1 » Database: shop » Table: cat

Showing rows 0 - 7 (8 total, Query took 0.0007 seconds.)

SELECT \* FROM `cat`

Number of rows: 25 Filter rows: Search this table Sort by key: None

	cat_id	cat_name	img_path
<input type="checkbox"/>	8	Gadget & Electronics	images/category/79622-other-electronic-reviews.jpg
<input type="checkbox"/>	9	Health & Beauty	images/category/67754-index.jpg
<input type="checkbox"/>	10	Home & Kitchen	images/category/67331-astonishing-kitchen-home-thr...
<input type="checkbox"/>	11	Watch	images/category/2438-tissot-v8-quartz-chronograph-...
<input type="checkbox"/>	13	Jewelry	images/category/70863-1647a30c71d00172ea8bcff93329...
<input type="checkbox"/>	14	Gift Items	images/category/24006-Gift-Items-2.jpg
<input type="checkbox"/>	15	Kids Zone	images/category/12311-images.jpg
<input type="checkbox"/>	16	Other Products	images/category/33557-TWS_Banner_OtherProducts-e14...

Fig 5.5: Cat table

## 5.2.5 Checkout Table:

Server: 127.0.0.1 » Database: shop » Table: checkout

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	checkout_id	int(11)			No	None		AUTO_INCREMENT	Change Drop Primary Unique Index More
2	name	varchar(150)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index More
3	email	varchar(150)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index More
4	order_cart_id	int(11)			No	None			Change Drop Primary Unique Index More
5	cust_id	int(11)			No	None			Change Drop Primary Unique Index More
6	phone	varchar(15)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index More
7	country	varchar(25)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index More
8	address	varchar(250)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index More
9	postcode	varchar(12)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index More
10	city_town	varchar(100)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index More
11	co_name	varchar(50)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index More
12	other_note	varchar(500)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index More
13	order_date	timestamp			No	CURRENT_TIMESTAMP			Change Drop Primary Unique Index More
14	status	int(11)			No	None			Change Drop Primary Unique Index More
15	delivery_date	datetime			No	None			Change Drop Primary Unique Index More
16	ship_id	int(11)			No	None			Change Drop Primary Unique Index More

Fig 5.6: Checkout table

## 5.2.6 Customer Table:

Server: 127.0.0.1 » Database: shop » Table: customer

Showing rows 0 - 10 (11 total, Query took 0.0007 seconds.)

SELECT \* FROM `customer`

Number of rows: 25 | Filter rows: Search this table | Sort by key: None

	cust_id	customer	email
<input type="checkbox"/>	79	14jp4snhdbj1bmf dq3stj60lm2	
<input type="checkbox"/>	80	rjq0gp9sslh6oaoajsk3v0q8v3	
<input type="checkbox"/>	81	tgb1110dgobjf6ocain7jntph2	
<input type="checkbox"/>	82	Mahaub asdad	fdsfsdf
<input type="checkbox"/>	83	5n58rp5m0anqt7d78rpkikl6v2	
<input type="checkbox"/>	84	shawon mahabub	sfdfs
<input type="checkbox"/>	85	saif ifte	y.saif@gmail.com
<input type="checkbox"/>	86	4l2ss4itruts6q560ph23qmei1	
<input type="checkbox"/>	87	d7jf1q379frs3ol2atlleb0t6	
<input type="checkbox"/>	88	sha la	y.saif@gmail.com
<input type="checkbox"/>	89	ho2n2cu647m2fd3ru57038v107	

Fig 5.7: Customer table

## 5.2.7 Order cart Table:

Server: 127.0.0.1 » Database: shop » Table: order\_cart

Showing rows 0 - 10 (11 total, Query took 0.0007 seconds.)

SELECT \* FROM `order\_cart`

Number of rows: 25 | Filter rows: Search this table | Sort by key: None

	order_cart_id	cust_id	status
<input type="checkbox"/>	79	79	
<input type="checkbox"/>	80	80	
<input type="checkbox"/>	81	81	
<input type="checkbox"/>	82	82	
<input type="checkbox"/>	83	83	
<input type="checkbox"/>	84	84	
<input type="checkbox"/>	85	85	
<input type="checkbox"/>	86	86	
<input type="checkbox"/>	87	87	
<input type="checkbox"/>	88	88	
<input type="checkbox"/>	89	89	

Fig 5.8: Order cart table



## 5.2.8 Product Table:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	p_id	int(11)			No	None		AUTO_INCREMENT	Change Drop Primary Unique Index More
2	title	varchar(50)	utf8_general_ci		No	None			Change Drop Primary Unique Index More
3	sub_cat_id	int(11)			No	None			Change Drop Primary Unique Index More
4	detail	longtext	utf8_general_ci		No	None			Change Drop Primary Unique Index More
5	price	float			No	None			Change Drop Primary Unique Index More
6	pre_price	float			No	None			Change Drop Primary Unique Index More
7	stock	int(11)			No	None			Change Drop Primary Unique Index More
8	default_pic	varchar(100)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index More
9	img1	varchar(100)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index More
10	img2	varchar(100)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index More
11	img3	varchar(100)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index More
12	img4	varchar(100)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index More
13	item_code	varchar(10)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index More
14	post_date	timestamp			No	CURRENT_TIMESTAMP			Change Drop Primary Unique Index More
15	total_order	int(10)			No	None			Change Drop Primary Unique Index More
16	most_view_counter	int(10)			No	None			Change Drop Primary Unique Index More
17	review_counter	int(11)			No	None			Change Drop Primary Unique Index More
18	youtube_link	varchar(250)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index More

Fig 5.9: Product table

## 5.2.9 Review Table:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	re_id	int(11)			No	None		AUTO_INCREMENT	Change Drop Primary Unique Index Spatial More
2	email	varchar(100)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial More
3	name	varchar(50)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial More
4	review	varchar(500)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial More
5	p_id	int(11)			No	None			Change Drop Primary Unique Index Spatial More
6	post_date	timestamp			No	CURRENT_TIMESTAMP			Change Drop Primary Unique Index Spatial More

Check all With selected: Browse Change Drop Primary Unique Index Add to central columns Remove from central columns

Fig 5.10: Review table

## 5.2.10 Shipping Table:

The screenshot shows the MySQL Table Structure tool for the 'shipping' table. The table has three columns: 'ship\_id' (int(11), AUTO\_INCREMENT, Primary, Unique, Index), 'details' (varchar(250), latin1\_swedish\_ci, Primary, Unique, Index, Spatial, Fulltext), and 'amount' (int(11), Primary, Unique, Index, Spatial, Fulltext). The interface includes various action buttons like Change, Drop, Primary, Unique, Index, and Add to central columns. At the bottom, there is an 'Add' button with a dropdown menu set to 'after amount' and a 'Go' button.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ship_id	int(11)			No	None		AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext More
2	details	varchar(250)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext More
3	amount	int(11)			No	None			Change Drop Primary Unique Index Spatial Fulltext More

Fig 5.11: Shipping table

## 5.2.11 Sub cat Table:

The screenshot shows the MySQL Table Structure tool for the 'sub\_cat' table. The table has three columns: 'sub\_cat\_id' (int(11), AUTO\_INCREMENT, Primary, Unique, Index), 'cat\_id' (int(10), Primary, Unique, Index, Spatial, Fulltext), and 'sub\_cat\_name' (varchar(100), latin1\_swedish\_ci, Primary, Unique, Index, Spatial, Fulltext). The interface includes various action buttons like Change, Drop, Primary, Unique, Index, and Add to central columns. At the bottom, there is an 'Add' button with a dropdown menu set to 'after sub\_cat\_name' and a 'Go' button.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	sub_cat_id	int(11)			No	None		AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext More
2	cat_id	int(10)			No	None			Change Drop Primary Unique Index Spatial Fulltext More
3	sub_cat_name	varchar(100)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext More

Fig 5.12: Sub Cat table

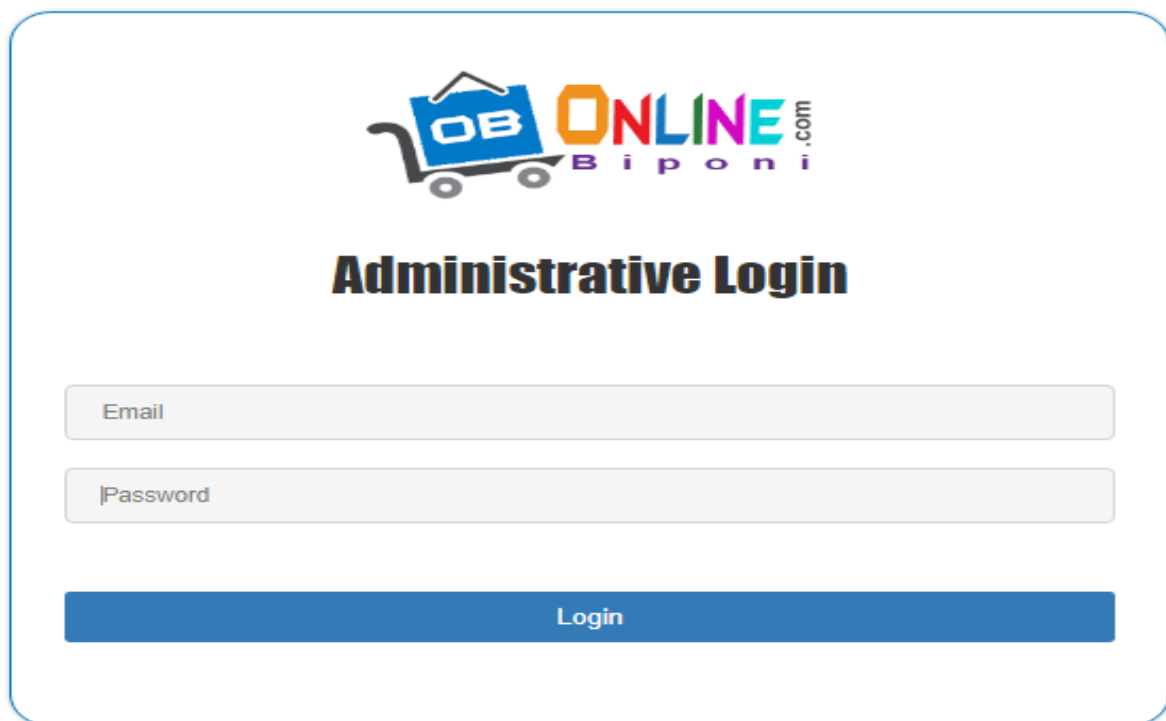
## **Chapter 6: Design Specification**

### **6.1 Admin User Panel:**

In information technology, the user interface (UI) is everything designed into an information device with which a human being may interact. We design our website user friendly. This website is fully responsive for mobile users.

User experience design (UXD or UED) is the process of enhancing customer satisfaction and loyalty by improving the usability, ease of use, and pleasure provided in the interaction between the customer and the product.

#### **6.1.1 Administrative Login**



The image shows a screenshot of an administrative login page. At the top center is the logo for 'OB ONLINE BIPONI.com', which features a blue shopping cart icon with 'OB' inside, followed by 'ONLINE' in large, multi-colored letters, and 'BIPONI.com' in smaller purple letters below it. Below the logo, the text 'Administrative Login' is displayed in a bold, black font. Underneath this text are two input fields: the first is labeled 'Email' and the second is labeled 'Password'. At the bottom of the form is a prominent blue button with the word 'Login' written in white text.

Fig 6.1: Administrative login page

### 6.1.2: Administrative profile

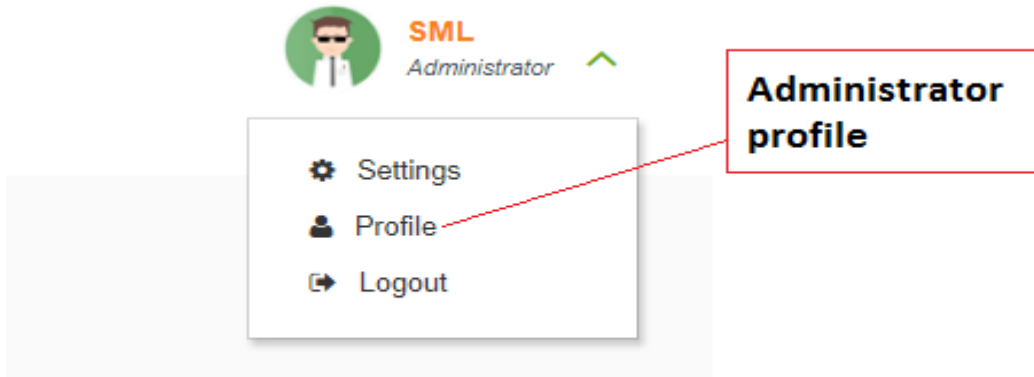


Fig 6.2: Administrative profile page

### 6.1.3: Add Category

Categories are to be created by the admin.

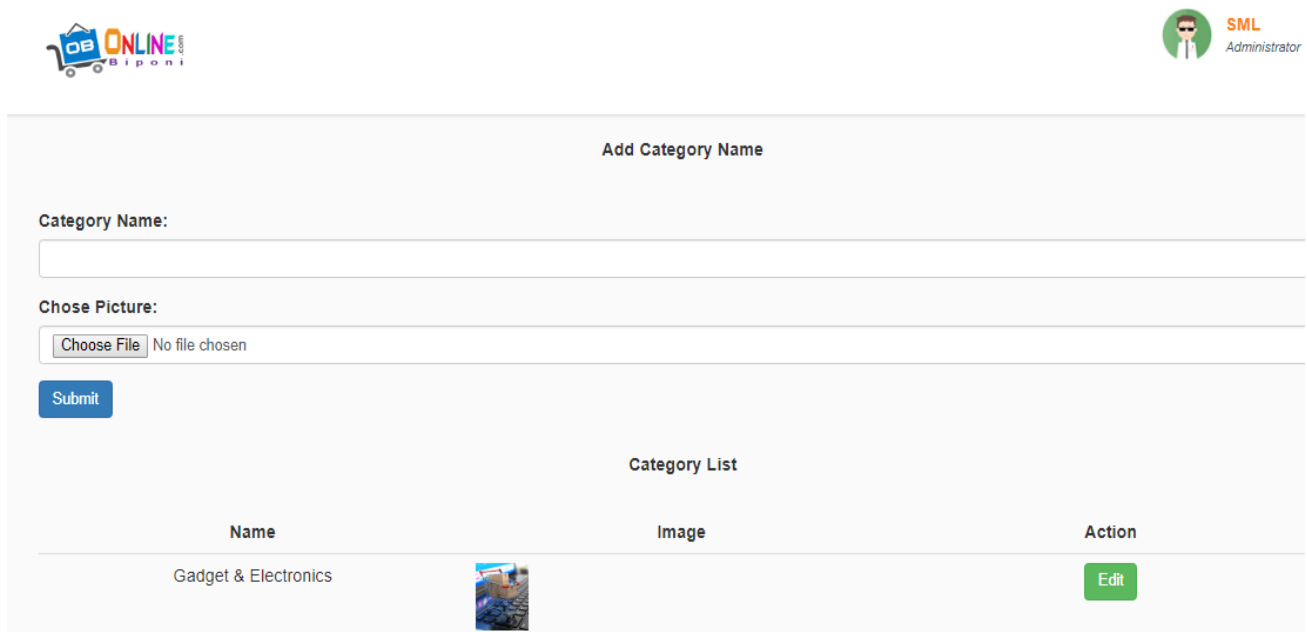


Fig 6.3: Add Category page

### 6.1.4: Add Product

Admin can be added product details.

Fig 6.4: Add Product page

### 6.1.5: View Product

In view product, admin panel can edit or delete any product details.

Image	Name	Category	Sub-Category	stock	Price	Discount	Actual Price	Action
	HD Multimedia Projector	Gadget & Electronics	Accessories	36	₹ 7000	15 %	₹ 5950	<a href="#">Edit</a> <a href="#">Delete</a>
	Jovison WiFi/IP Security Camera	Gadget & Electronics	Home Appliances	9	₹ 7000	0 %	₹ 7000	<a href="#">Edit</a> <a href="#">Delete</a>
	Electric Sewing Machine	Gadget & Electronics	Accessories	100	₹ 2200	0 %	₹ 2200	<a href="#">Edit</a> <a href="#">Delete</a>
	Electric lunch box	Gadget & Electronics	Accessories	99	₹ 1500	0 %	₹ 1500	<a href="#">Edit</a> <a href="#">Delete</a>
	Hot Shaper Slimming Belt	Health & Beauty	Health Products	98	₹ 590	0 %	₹ 590	<a href="#">Edit</a> <a href="#">Delete</a>
	Slim N Lift	Health & Beauty	Health Products	100	₹ 690	0 %	₹ 690	<a href="#">Edit</a> <a href="#">Delete</a>

Fig 6.5: View Product page

### 6.1.6: Checkout

In checkout page admin panel can view order details.

Name	Email	District	Post code	Address	Phone	Order Date	Action
shawon mahabub	sdfs	fdsfsd	33344	kfkdsflkf	0191258417	2017-07-26 00:05:45	<a href="#">Details</a>
Shawon Mahabub Lamia	shawon@gmail.com	Dhaka	1203	43 East Maniknagor, Dhaka-1203	01687863682	2017-07-29 15:09:07	<a href="#">Details</a>

Fig 6.6: Checkout page

### 6.1.7: Customer Detail page

If admin click details button then view the customer details.

Customer Details			
<b>Name</b>	:	Shawon Mahabub Lamia	
<b>Email</b>	:	shawon@gmail.com	
<b>Phone</b>	:	01687863682	
<b>City/Town</b>	:	Dhaka	
<b>Post Code</b>	:	1203	
<b>Address</b>	:	43 East Maniknagor, Dhaka-1203	

Product Detail			
Product Title	Quantity	Price	Total
Watermelon/Fruit Slicer	1	₳ 700	₳ 700
		Delivery Charge:	₳ 80
		<b>Total:</b>	<b>₳ 780</b>

[Delivered](#)

Fig6.7: customer details page

## Chapter 7: Specification of Code

### 7.1 Main database connection code:

```
1 <?php
2 $server = "localhost";
3 $database = "shop";
4 $username = "root";
5 $password = "";
6
7 // Create connection
8 $con = mysqli_connect($server, $username, $password, $database);
9 ?>
```

### 7.2 Account login database connection code

```
1 <?php
2 include "admin/db.php";
3 session_start();
4 ?>
5 <?php
6
7 if (isset($_POST['submit'])) {
8
9     $user = $_POST['user'];
10    $email = $_POST['email'];
11    $pass = $_POST['pass'];
12    $mobile = $_POST['mobile'];
13
14    // echo "$user <br/>";
15    // echo "$email <br/>";
16    // echo "$pass <br/>";
17    // echo "$mobile <br/>";
18
19    $insert = "INSERT INTO account (name,email,password,mobile) VALUES
20    ('$user','$email','$pass','$mobile)";
21
22    if (mysqli_query($con,$insert)) {
23        header("");
24    }else{
25        die("Registration failed").$insert(mysqli_connect_error());
26    }
27 }
28
29
30 ?>
```

### 7.3 Admin login database connection page:

```
<?php session_start();
error_reporting(E_ALL ^ E_NOTICE);
include'db.php';

$email=mysqli_real_escape_string($con,$_POST["email"]);
$password=mysqli_real_escape_string($con,$_POST["password"]);
if(isset($_POST['submit']))
{
$result=mysqli_query($con,"select * from admin where email='".$email."'");
$count=mysqli_num_rows($result);

if ($count==0)
{
$msg="<div style='color:red;font-weight:bold;font-size:10px;'><b>Email doesnot exists </b></div> ";
}
else
{
while($r=mysqli_fetch_array($result))
{
$user_id=$r['admin_id'];
if($r['password']==$password)
{
$_SESSION['id']=$user_id;

header("Location:home.php");
}
else
{
$msg1="<div style='color:red;font-weight:bold;font-size:10px;'><b>Password incorrect </b></div> ";
}
}
}
}
?>
```



## 7.4 Cart-process database connection code:

### 7.4.1:

```
<?php
include 'admin/db.php';

$cdid=mysqli_real_escape_string($con,$_POST['cdid']);
$ocid=mysqli_real_escape_string($con,$_POST['ocid']);
$pid=mysqli_real_escape_string($con,$_POST['pid']);
$qty=mysqli_real_escape_string($con,$_POST['qty']);
//$total=mysqli_real_escape_string($con,$_POST['total']);

$re5=mysqli_query($con,"select * from cart_detail where cart_detail_id=$cdid");
while($ro5=mysqli_fetch_array($re5))
▼ {
    $per_price=$ro5['per_price'];
    $total=$ro5['total'];

    $total;
    $re20=mysqli_query($con,"select * from product where p_id=$pid");
while($ro20=mysqli_fetch_array($re20))
    $stock=$ro20['stock'];

    $new_total=$total+$per_price;
    if($stock > $qty)
▼ {
        if(mysqli_query($con,"update cart_detail set qty=$qty,total=$new_total where cart_detail_id=$cdid"))
▼ {
            print"<div class='alert alert-success' style='color:green;font-weight:bold;font-size:7pt;height:10px;line-
            height:0px;margin-top:15%;'>Successfully add item on the cart</div>";
        }
    }
    else
▼ {
        print"<div class='alert alert-danger' style='color:red;font-weight:bold;font-size:7pt;height:10px;line-
        height:0px;margin-top:15%;'>Stocks not are available</div>";
    }

}
?>
```

#### 7.4.2:

```
<?php include 'admin/db.php';
session_start();
error_reporting(E_ALL ^ E_NOTICE);
$ocid=$_GET['ocid'];
$r1=session_id();
$fun=$_GET['fun'];
$cdid1=$_GET['cdid1'];

if($fun == 'del')
{

if(mysqli_query($con,"delete from cart_detail where cart_detail_id=$cdid1"))
{

    $re=mysqli_query($con,"select * from cart_detail where order_cart_id=$ocid");
    $count=mysqli_num_rows($re);

    if($count == 0)
    {
        header('location:cart.php?ocid='.$ocid.'');
    }
    else
    {
        $msg="<div calss='alert alert-success' style='color:green;font-weight:bold;font-size:18px;margin-bottom:3%;'>Successfully deleted the product from your cart</div>";
    }
}
}
?>
```

### 7.4.3:

```
<?php
include 'admin/db.php';

$cdid=mysqli_real_escape_string($con,$_POST['cdid']);
$socid=mysqli_real_escape_string($con,$_POST['ocid']);
$pid=mysqli_real_escape_string($con,$_POST['pid']);
$qty=mysqli_real_escape_string($con,$_POST['qty']);
//$total=mysqli_real_escape_string($con,$_POST['total']);

    $re20=mysqli_query($con,"select * from product where p_id=$pid");
while($ro20=mysqli_fetch_array($re20))
    $stock=$ro20['stock'];

    if($stock > $qty)
    {
        $re5=mysqli_query($con,"select * from cart_detail where cart_detail_id=$cdid");
        while($ro5=mysqli_fetch_array($re5))
        {
            $per_price=$ro5['per_price'];
            $total=$qty*$per_price;

            if($qty > 0)
            {

                if(mysqli_query($con,"update cart_detail set qty=$qty,total=$total where cart_detail_id=$cdid"))
                {
                    print"<div class='alert alert-success' style='color:green;font-weight:bold;font-size:7pt;height:10px;line-height:0px;margin-top:15%;>Successfully add item on the cart</div>";
                }
            }
            else
            {
                mysqli_query($con,"DELETE FROM `cart_detail` WHERE `cart_detail_id`=$cdid");
            }
        }
    }
    else
    {
        print"<div class='alert alert-danger' style='color:red;font-weight:bold;font-size:7pt;height:10px;line-height:0px;margin-top:15%;>Stocks not are available</div>";
    }
?>
```

## 7.5 Category database connection code:

```
<?php
session_start();
if(isset($_SESSION['id']))
{
error_reporting(E_ALL ^ E_NOTICE);
include'db.php';
if(isset($_POST['submit1']))
{
    $cat_name1=mysqli_real_escape_string($con,$_POST['cat_name1']);
    $cat_id1=mysqli_real_escape_string($con,$_POST['cat_id1']);
    if(mysqli_query($con,"update cat set cat_name='$cat_name1' where cat_id=$cat_id1"))
    {
        $msg2="<span class='alert alert-success' style='font-weight:bold;color:green;font-size:12px;'>Successfully category Edited</span>";
    }
}
if(isset($_POST['submit']))
{
    $cat_name=mysqli_real_escape_string($con,$_POST['cat_name']);

    if(strlen($cat_name) < 3)
    {
        $msg="<span style='color:red;font-weight:bold;font-size:10px;'>* Please insert category Name</span>";
    }
    if(strlen($_FILES['file']['name']) < 1)
    {
        $msg1="<span style='color:red;font-weight:bold;font-size:10px;'>* Please Chose the image</span>";
    }

    $allowedExts = array("jpg", "jpeg", "gif", "png");
    $extension = pathinfo($_FILES['file']['name'], PATHINFO_EXTENSION);

    if ((($_FILES["file"]["type"] == "image/jpeg")
    || ($_FILES["file"]["type"] == "image/gif")
    || ($_FILES["file"]["type"] == "image/jpeg"))

    && ($_FILES["file"]["size"] < 990000000)
    && in_array($extension, $allowedExts))
    {
        $path="images/category/" .rand(1000,100000)."-" . $_FILES["file"]["name"];
        move_uploaded_file($_FILES["file"]["tmp_name"],
        "$path");

        if(strlen($cat_name) > 3 && strlen($path) > 21 )
        {

            if(mysqli_query($con,"insert into cat(cat_name,img_path) values('$cat_name','$path)"))
            {
                $msg2="<span class='alert alert-success' style='font-weight:bold;color:green;'>Category Name successfully added</span>";
            }
        }
    }
}
?>
```

## 7.6 Checkout database connection code:

```
<?php
session_start();
if(isset($_SESSION['id']))
{
error_reporting(E_ALL ^ E_NOTICE);
include'db.php';
$fun=$_GET['fun'];
$ocid1=$_GET['ocid'];
$ck_id1=$_GET['ck_id'];
if($fun == 'del')
{
mysql_query($con,"update checkout set status=2,delivery_date=curdate() where checkout_id=$ck_id1
");
$r1=mysql_query($con,"select * from cart_detail where order_cart_id=$ocid1");
while($ro1=mysql_fetch_array($r1))
{
$pid1=$ro1['product_id'];
$qty1=$ro1['qty'];
$r2=mysql_query($con,"select * from product where p_id=$pid1");
while($ro2=mysql_fetch_array($r2))
{
$new_qty=$ro2['stock']-$qty1;
$new_order=$ro2['total_order']+1;
mysql_query($con,"update product set stock=$new_qty, total_order=$new_order where
p_id=$pid1");
$msg="<div class='alert alert-success' style='color:green;font-weight:bold;font-size:16pt;'>Successfully Finished this transection</div>";
}
}
}
?>
```

## 7.7 Product table database connection code:

```
<?php include'admin/db.php';
session_start();
error_reporting(E_ALL ^ E_NOTICE);
$r1=session_id();
$scid=$_GET['scid'];
$cat_id2=$_GET['cid'];
$r=$r1;
$result7=mysqli_query($con,"select * from customer where customer='$r'");
$count7=mysqli_num_rows($result7);
if($count7 == 0)
{
    $insert=mysqli_query($con,"insert into customer(customer) values('$r')");
    $cust_id = mysqli_insert_id($con);
    $insert=mysqli_query($con,"insert into order_cart(cust_id) values($cust_id)");

    $order_cart_id=mysqli_insert_id($con);
}
else
{
    $sel1=mysqli_query($con,"select * from order_cart where cust_id=(select cust_id from customer
    where customer='$r')");
    while($sel2=mysqli_fetch_array($sel1))
    {
        $order_cart_id=$sel2['order_cart_id'];
    }
}

}
$fun=$_GET['fun'];
if($fun=='add')
{
    $product_id=$_GET['product_id'];
    $ocid=$_GET['ocid'];
    $new_price=$_GET['new_price'];
    $number=1;
    $total=$number*$new_price;
    $coun=mysqli_query($con,"select * from cart_detail where product_id=$product_id and order_cart_id=$ocid");
    $count=mysqli_num_rows($coun);

    if($count == 0)
    {
        $re21=mysqli_query($con,"select * from product where p_id=$product_id");
        while($ro21=mysqli_fetch_array($re21))
        $stock=$ro21['stock'];
        if($stock > $number)
        {
            if(mysqli_query($con,"insert into cart_detail(order_cart_id,product_id,qty,per_price,total)
            values($ocid,$product_id,$number,$new_price,$total)"))
            {
                $msg="<div class='alert alert-success' style='color:green;font-weight:bold;'>Successfully added
                to your cart</div>";
            }
        }
        else
        {
            $msg="<div class='alert alert-danger' style='color:red;font-weight:bold;'>Your ordered number is
            out of stock</div>";
        }
    }
}
```

```

else
{
    $find=mysqli_query($con,"select * from cart_detail where product_id=$product_id and
    order_cart_id=$ocid");
    while($find1=mysqli_fetch_array($find))

    {
        $cdid=$find1['cart_detail_id'];
        $pre_qty=$find1['qty'];

        $pre_total=$find1['total'];
        $new_qty=$pre_qty+$number;
        $new_total=$pre_total+$total;
        $re21=mysqli_query($con,"select * from product where p_id=$product_id");
        while($ro21=mysqli_fetch_array($re21))
        $stock=$ro21['stock'];
        if($stock > $new_qty)
        {
            if(mysqli_query($con,"update cart_detail set qty=$new_qty ,total=$new_total where
            cart_detail_id=$cdid"))
            {
                $msg="<div class='alert alert-success' style='color:green;font-weight:bold;'>Successfully added
                to your cart</div>";
            }
        }
        else
        {
            $msg="<div class='alert alert-danger' style='color:red;font-weight:bold;'>Your ordered number is
            out of stock</div>";
        }
    }
}
}
?>

```

## **Chapter 8: Recommendation**

There are some recommendations for them who are thinking for design and re-design a web application

- A Web application should be very simple and credible; it should be familiar with the user.
- There should be an effective, communicative visible language.
- Compatibility and accessibility with different type of device should also be ensured.
- Regular testing and monitoring ensures a bug and error free modules.
- For updating the code or design there should have very efficient programming skill.

## **Chapter 9: Conclusion**

### **9.1 Future Aspects:**

- We would try to the betterment of the user interface
- The mobile and Email verification would be added.
- This project may used professionally by creating a domain host for the web.
- The terms and condition feature can be updated depending on user demand and new technology.
- The history of the user can be saved on this project but the there is no account system for them. Account system can be added for the long term customer and better reliability (under processing).

### **9.2 Conclusion:**

In Bangladesh the Shopping malls and market facilities decreases by different problems like huge traffic, parking problem and safety .Customers faces confusion about market price. Small and medium sized enterprises also have no specific organized information and data about product, customers, sales, profits and losses. So this type of project can be a complete solution for both the customers, business organizations and enterprises.



# Appendix

## Acronyms

CSS=Cascading Style sheet

DBMS= Database Management System

DHTML= Dynamic HTML

DOM= Dynamic Object Model

HTML=Hypertext Markup Language

JS=Java Script

PHP=Personal Home Page (recursive acronym=Hypertext Preprocessor)

RDBMS= Relational database management system

SPAM= [not an acronym] Slang or Unsolicited Commercial Mail

SQL= Standard Query Language

XAMP= Operating system(X) for APACHE, MySQL, PHP and PERL

## Reference:

- [1] <http://www.wpbeginner.com/glossary/apache/>
- [2] <https://www.siteground.com/tutorials/php-mysql/mysql.htm>
- [3] <https://www.upwork.com/hiring/development/server-side-scripting-back-end-web-development-technology/>
- [4] <https://www.computerhope.com/jargon/h/html.html>
- [5] <https://www.w3schools.com/css/>
- [6] <http://getbootstrap.com/>
- [7] <https://en.wikipedia.org/wiki/JavaScript>
- [8] <https://en.wikipedia.org/wiki/JQuery>
- [9] <https://github.com/>
- [10] <https://www.getcomposer.org>
- [11] <http://www.ukoln.ac.uk/qa-focus/documents/briefings/briefing-34/html>