### BISMILLAHHIR RAHMANIR RAHIM

## E-COMMERCE WEBSITE

BY

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FACULTY OF SCIENCE AND ENGINEERING DEPARTMENT OF COMPUTER SCIENCE AND ENGENEERING INTERNATIONAL ISLAMIC UNIVERSITY, CHITTAGONG

## E-COMMERCE WEBSITE

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A PROJECT REPORT SUBMITTED IN PARTUAL FULFILLMENT OF THE REQUIREMENT FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING.

## FACULTY OF SCIENCE AND ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGENEERING INTERNATIONAL ISLAMIC UNIVERSITY, CHITTAGONG

## E-COMMERCE WEBSITE

A Project Report Submitted by

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For the partial fulfilment of the degree of B. Sc. in Computer Science and Engineering Examination held on October, 2016

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## DECLARATION

During the submission as a partial fulfilment of the System Design & Analysis Sessional (CSE 3606) Project of B. Sc. in CSE 6<sup>th</sup> semester, of the International Islamic University Chittagong, this is the declaration, that the project on ECOMMERCE WEBSITE is the Original work done by our group members are MD. SAIFUL ISLAM (C131009), MAINUL HASAN (C133049) AND TAHMID AZMAIN (C133055).This project are neither copy nor taken from anyone else.

> MD. SAIFUL ISLAM MAINUL HASAN TAHMID AZMAIN

## DEDICATION

We would like to dedicate the project on ECOMMERCE WEBSITE to our respective Sir, MD. Arif Hasnayeen for the support and help.

# ACCKNOWLEDGEMENT

We first express our gratitude to the Almighty Allah (SWT). By the mercy of Allah (SWT) we have completed our project successfully.

We feel profound and very much thankful to our supervisor Md. Arif Hasnayeen our System Analysis & Design Sessional (CSE-3606) course teacher, International Islamic University Chittagong for his every support, inspiration, encouragement, advice and guidance and direction throughout the execution of this project and without his valuable support this website would not be Successful.

# ABSTRACT

This is a project report on "E-COMMERCE WEBSITE". The project is the output of our planning, schedule, programming skill and hard work. During the developing of this project we used HTML as our front design and backend, we used PHP, MYSQL.

This is a web based application which helps people to find and buy various kinds of products at any place. It is easier to find and buy any kinds of products via online. The website has been developed with a database system where manipulation and modification of data are made easily.

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## 1. Introduction

The project is concerned with any kinds of E-Commerce Website where the aim of this project is on the online shopping application which is developed by using HTML5, JAVA script, CSS, PHP. The application is very useful where the customer can directly buy the products from home via internet on various kinds of devices. The website is fully user friendly, so customer can easily order products via internet from home using smartphone, laptop, PC or using tablet. The transaction of money is completed in real time system. By this online shopping the product is directly delivered to customer home with cash on delivery.

### 1.1 <u>OBJECTIVE</u>

- o The Website is for the online shopping.
- O It has maintained by only administrator.
- The website featured as follow:
  - Various types of product details.
  - It has a login system, where anyone can create an account easily.
  - Payment system will be cash on delivery.
  - Website is designed user friendly.

### 1.2 PRESENT SYSTEM OVERVIEW

The system containing of such features such as account login, add to cart, update the cart, adding or deleting products by admin.

### 1.3 PROJECT SCOPE

The website can be used in any place of the world via internet. Anyone can visit our website and purchase products as their wish by searching categorically. For cash on delivery, we just restricted the ordering system within Bangladesh.

### 1.4 PROJECT DELIVERABLES

Our project is Online based website which has some following features:

Product Category:

In the website, there exists different types of products in different Categories.

➢ Product Brand:

In the website, there exists different types of products in different Brands.

Product Details:

Each and every product, there has a specific individual details with their real photos and authentic prices.

> Order:

People may order any kinds of products with their existing accounts or newly registration at that time.

≻ Add To Cart:

Customers can easily add their wanted products to Cart or delete from the Cart.

≻ Helpline

There are an email system to contact with the administrator to fix any kind of problem and information.

≻ Account:

Customers must need an account to buy any products. Un-Register or Unauthorized Person does not have the rights to purchase any products.

# 2. FEASIIBIILIITY STUDY

## 2.1 GANTT CHART

1 Click Shop			
Task name	Start date	End date	Duration day
✓ Web Site Designed	20/04/16 11:36	01/09/16 05:20	133.79
✓ 1 Click Shop's Web Site	20/04/16 11:36	01/09/16 05:20	133.79
✓ Initial activities	20/04/16 11:36	03/05/16 04:36	12.75
Project Selection	20/04/16 11:36	20/04/16 12:36	0.04
Planning	20/04/16 11:36	21/04/16 11:36	1.04
Initial meeting	20/04/16 11:36	21/04/16 15:36	1.21
Assessment	21/04/16 15:36	26/04/16 20:36	5.21
Research	26/04/16 20:36	03/05/16 04:36	6.33
+ Add a task   Add a milestone			
✓ Site Outline	28/04/16 19:20	13/05/16 05:20	14.46
Site outline	28/04/16 19:20	05/05/16 22:20	7.17
Site outline review	04/05/16 22:20	09/05/16 05:20	4.29
Site map	05/05/16 19:20	09/05/16 22:20	4.17
Site map review	09/05/16 22:20	13/05/16 05:20	3.29
+ Add a task   Add a milestone			
✓ Database Create	04/05/16 19:20	15/05/16 02:20	10.33
Tables Create	04/05/16 19:20	11/05/16 22:20	7.17
Product Adding	11/05/16 22:20	15/05/16 02:20	3.13
+ Add a task   Add a milestone			
~ Content	04/05/16 19:20	19/05/16 02:20	14.33
Site content outline	04/05/16 19:20	13/05/16 22:20	9.17
Site content submissions	13/05/16 22:20	19/05/16 02:20	5.13
+ Add a task   Add a milestone			
✓ Designing	16/05/16 19:20	03/06/16 08:20	17.58
Choose the perfect design	16/05/16 19:20	23/05/16 22:20	7.17
Take review from others	23/05/16 22:20	27/05/16 07:20	3.29
Correct the design	24/05/16 19:20	30/05/16 22:20	6.17
Take final review	30/05/16 22:20	03/06/16 08:20	3.29
+ Add a task   Add a milestone			
Coding	27/05/16 19:20	06/06/16 22:20	10.17
Validation	05/06/16 22:20	11/06/16 02:20	5.13
Content population	09/06/16 02:20	17/06/16 10:20	8.25
Cross Platform and Browser testing	15/06/16 10:20	21/06/16 21:20	6.38
Final review	21/06/16 21:20	21/06/16 21:20	
Refinement	21/06/16 21:20	01/09/16 05:20	71.33



Fig 2.1: Gantt Chart

### 2.2 FEASIBILITY STUDY

Feasibility study is an assessment of the practicality of a proposed project. A feasibility study aims to objectively and rationally uncover the strengths and weaknesses of an existing business or proposed venture, opportunities and threats present in the environment.

Some primary areas of interest are considered to complete the feasibility analysis for this project.

Different steps of Feasibility Analysis:

1. For a project team.

2. Prepare system flowchart.

3. Enumerate potential proposed system.

4. Defined & evaluate performance & cost effective of each proposed system.

5. Select best proposed system.

6. Prepare and report final project direct to management.

### 2.2.1 <u>TECHNICAL FEASIBILITY</u>

This assessment is based on an outline design of system requirements, to determine whether the company has the technical expertise to handle completion of the project.

The technical needs of the system may include:

- 1. Feasibility
- 2. Robustness
- 3. Easy to maintain
- 4. Scalability and extensibility
- 5. The operator must have IT related.
- 6. Efficiently data handling
- 7. Efficient data retrieval and maintenance

### 2.2.2 Economic Feasibility

The purpose of the economic feasibility assessment is to determine the positive economic benefits to the organization that the proposed system will provide. It includes quantification and identification of all the benefits expected.

The financial and economic questions during the preliminary investigation are verified to estimate the following:

1. The cost to conduct a full system investigation.

2. The cost of hardware and software for the class of application being considered.

3. The benefits in the form of reduced cost.

### 2.2.3 OPERATIONAL FEASIBILITY

Operational feasibility is a measure of how well a proposed system solves the problems, and takes advantage of the opportunities identified during scope definition and how it satisfies the requirements identified in the requirements analysis phase of system development.

### 2.2.4 <u>SCHEDULE FEASIBILITY</u>

A project will fail if it takes too long to be completed before it is useful. Typically this means estimating how long the system will take to develop, and if it can be completed in a given time period using some methods like payback period. Schedule feasibility is a measure of how reasonable the project timetable is.

## 3.METHODOLOGY

To make a software, developers have to follow some methodology. In our project we follow **SDLC** methodology. Because using this method we can do our job step-bystep & schedule wise.

SDLC is a process of understanding how an information system can support business needs, designing the system, building it and delivering it to users. It includes five steps. These are:

- Planning
- Analysis
- Design
  - ൙ Logical Design
  - Physical Design
- Implementation
- Maintenance

# 4. EVALUATION CRITERIA

Hardware Requirements						
CPU		Parts	Network	Web		
Process	RAM	Disk			Domain	Hosting
or		Space				
Pentium	1 GB	100	Monito	Modem,	1clicksh	100MB
IV or	or	GB or	r,	Telephon	op.com	Space,
higher	more	more	Keybo	е		30GB
version			ard,			Bandwidth
			Mouse			

Software Requirements					
Operating	Database	Browser	Invoice		
System					
Windows 7 or	MYSQL	Google	Invoice		
higher		Chrome,	creating		
version		Mozilla, Opera	software		
		or others			

Fig 4.1: Hardware and Software requirements

## 5. ACTIVITY DIAGRAM

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency with support choice, iteration and concurrency.

Online customer can browse or search items, view specific item, add it to shopping cart, view and update shopping cart, do checkout. User can view shopping cart at any time.

#### Construction:

Activity diagrams are constructed by the following shapes:



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Fig: 5.1: Activity diagram of Online Shopping System

## 6. SYSTEM DESIGN

### 6.1 ENTITY REALTIONSHIP DIAGRAM (ERD)

An entity-relationship diagram (ERD) is a data modelling technique that graphically illustrates an information system's entities and the relationships between those entities. An ERD is a conceptual and representational model of data used to represent the entity framework infrastructure.

ER diagram are constructed by following shapes:





Fig 6.1: ERD with attribute

## 6.2 <u>RELATIONAL SCHEMA</u>



Fig 6.2: Relational schema

## 6.3 DATABASE TABLES

#### 6.3.1: Customers

Field	Туре
customer_id	int
customer_ip	varchar
customer_name	text
customer_email	varchar
customer_pass	varchar
customer_country	text
customer_city	text
customer_contact	text
customer_address	text
customer_image	text

### 6.3.2: Products

Field	Туре
product_id	int
product_cat	int
product_brand	int
product_title	varchar
product_price	int
product_desc	text
product_image	text
product_keywords	text

### 6.3.3: Categories

Field	Туре
<u>cat_id</u>	int
cat_title	text

### 6.3.4: Brands

Field	Туре
brand_id	int
brand _title	text

### 6.3.5: Cart

Field	Туре
p_id	int
ip_add	varchar
qty	int

## 7. DATA FLOW DIAGRAM

## 7.1 CONTEXT DIAGRAM



Fig 7.1: Context diagram of DFD

## 7.2 <u>LEVEL-0 DFD</u>



Fig 7.2: Level 0 DFD of online shopping system

## 7.3 <u>LEVEL-1 DFD</u>



Fig 7.3: Level 1 DFD of online shopping system

### 7.4 <u>LEVEL-2 DFD</u>



Fig 7.4: Level 2 for 2.0 DFD of online shopping system



Fig 7.5: Level 2 for 4.0 DFD of online shopping system

## 7.6 LEVEL-2 for 5 DFD



Fig 7.6: Level 2 for 5.0 DFD of online shopping system

## 7.7 LEVEL-3 for 4.3 DFD



Fig 7.7: Level 3 for 4.3 DFD of online shopping system

## 8. USE CASE DIAGRAM



Fig 8: Use case diagram of online shopping system

# 9. SEQUENCE DIAGRAM

A sequence diagram is shows how processes operate with one another and in what order. It is a construct of a message sequence chart. A sequence diagram shows object interactions arranged in time sequence. It is depicts the objects and classes involved in the scenario and the sequence of messages of exchanged between the objects needed to carry out the functionality of the scenario. Sequence diagram are sometimes called event diagrams.



Fig 9: Sequence diagram of online shopping system

# 10. IMPLEMENTATION AND CODING

### 10.1 SOFTWARE IMPLEMENTATION

We implement our software using given below

- ☞ PHP
- THTML
- CSS 🐨
- J MYSQL
- JavaScript

## 10.2 <u>SNAPSHOTS</u>



Home Page



All Products Page







Sign Up Page

1 Click Shop	×\				± _ ∂ >
← → C () lo	ocalhost/1clickshop/cart.php			익 ☆ 🚺 💩 🕨	/a 🖿 🐂
	One Click Best E-Co Chittagon	c Shop ommerce Shop in g			
	Home All products	My Account Sign Up Shopping cart About U	Js Contact Us	Search a product Search	
		Welcome Guest! Shopping Cart:	Total Items: 3   Total Price: 111000 Taka   <u>Go to (</u>	Cart Categories	
		Undate your cart or check	out	Laptops	
	Remove	Products	Total Price	Mobiles	
		HTC 10	55000	Computers	
				Cameras Tablets	
		Samsung A7	40000	Mens	
		2		Womens Kids Zone	
		Xiaomi Redmi Note 3	16000	Gift Items	
				Mudi Bazar	
		Sub Total:	111000 Taka	Brands	
	Update Cart	Continue Shopping	Checkout	HP	
				DELL SAMSUNG	
				HIC	
				SONN	
				LENOVO	
				APPLE	
				ACUS	

#### Shopping Cart Page



#### About Us Page

1 Click Shop ×		<b>±</b>		a∣ ×
← → C () localhost/1clickshop/cont	itact.html 🔍 🕁 🚺 🐖 🖪		<b>-</b> +	
One C Best E Chitta	Click Shop E-Commerce Shop in agong			
Home All produ	icts My Account Sign Up Shopping cart About Us Contact Us Search a product Search			
Your Name: * Subject: * E-mail: * Phone No.: Do you like our website? How did you find us? Your comments: *	? • Yes • No • Not sure - Please select - • • Send it			





#### Login Page



Payment Page



Search with new



Click on Mobiles Category



Click on Mudi Bazar Category



Click on Lenevo Barnd



Click on Other Brand

Inserting Products ×		± _ ⊡ ×
$\leftrightarrow$ $\rightarrow$ C (i) localhost/1clickshop/admin/insert_produ	ct.php	९ 🖈 🚯 💩 📴 🥕 🕇 📊 E
	Insert New Product Here	
P	roduct Title:	
Produ	ct Category:	
Pro	duct Brand:	
Pro	duct Image: Choose File No file chosen	
Pi	oduct Price:	
Product	File • Edit • View • Format • <ul> <li></li></ul>	
Produ	ct Keywords	
	Insert product Now	

Admin panel



Footer

1 Click Shop	× localhost / localhost / e ×	(▲)   —   @   ×
$\leftarrow$ $\rightarrow$ C (i) localhost	phpmyadmin/index.php?db=ecommerce&token=f988cafce7bbcf0cb52085020654dc60	Q 🕁 🚺 🕮 🕨 🖌 🕇 🙀
phpMyAdmin Database ecommerce (5) •	3 Server: localhost >        Database: ecommerce >        Image: Transmission of the server	Drop
Carl Carl Carl Carl Carl Carl Carl Carl	Show:       30       row(s) starting from record # 0         in Inbritorial       • mode and repeat headers after [100       cells         Sort by ker.       None       •         • Options       customer_id       customer_inp       customer_inp         • Check All / Uncheck All With selected:       •       •       Image: Show:       30       row(s) starting from record # 0         in Incircontal       •       mode and repeat headers after [100       cells         • Others:       •       mode and repeat headers after [100       cells         • Others:       •       mode and repeat headers after [100       cells         • Others:       •       mode and repeat headers after [100       cells         • Others:       •       mode and repeat headers after [100       cells         • Print view       •       mode and repeat headers after [100       cells         • Print view       •       mode and repeat headers after [100       cells         • In Incircontal       •       mode and repeat headers after [100       cells         • Print view       •       •       CREATE VIEW       •         • Bookmark this SQL query       •       Let every user access this bookmark       •	y customer_city customer_contact customer_address customer_image dfd 1232324 sdsdssd didar.png Chittagong 1232324 Bandrial, Ctg-4218 didar.png Bookmark this SOL query ■ Open new phpMyAdmin wind Lightshot Saved to 28.pg, Ctick here to open in the factor.

#### Database



1 Click Shop	× localhost/localhost/ec ×	* <u>-</u> <b>a</b> ×
$\leftrightarrow$ $\rightarrow$ $\mathbf{C}$ (i) localhost/	/phpmyadmin/index.php?db=ecommerce&token=f988cafce7bbcf0cb52085020654dc60	Q 🕁 💽 🥮 🖸 🥕 🕇 📊 E
phpMyAdmin	32 Server: localhost ▶ (a) Database: ecommerce ▶ (a) Table: cart         Image: Browse       Image: Sol. (c) Search is insert image: Sol (c) Search is inter image: Sol (c) Search	
ecommerce (5)	LINET 6 , 30	Edit][Explain SQL][Create PHP Code][Refresh]
ecommerce (5)	Show: 30       row(s) starting from record # 0         in horizontal       mode and repeat headers after 100         cells         • Options         p.id       ing.add         in korizontal       0         in korizontal       0         in korizontal       0         in korizontal       0         ccleate All //Uncheck All //With selected:       X         in horizontal       mode and repeat headers after 100         cells	
	Label: Let every user access this bookmark	Bookmark this SQL query
		Open new phpMyAdmin window
	Lightshot Screenshot is saved to 24.jpg. Click he folder.	$\sim$ $\times$ re to open in the

#### Database



#### Database

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C O localhost, phpMyAchain phpMyAchain O Database econmerce (5) ▼ econmerce (5) castores contores products	X       Micalhost / localhost / localh	Q 🛧 🕐 🕬 🛱 🦌 t 🦷 E

holduladmin	53 5	erve	r: loc	alhost 🕨 🗿 🛙	)atabase: eco	mmerce 🕨 🥅 Tal	ble: products				
	1	Brow	se	Structure	R SQL	Search Salinse	rt MExport	mimport % Op	erations TEmpty Crop		
	1	Sho	wing	rows 0 - 12 (1	3 total, Query t	ook 0.0006 sec)					
Database	SELEC										
herce (5)	LINIT	0 , 30	Ĩ								
erce (5)										Profiling [Edit] [Explain SQL]]	Create PHP Code ][Retri
				01	an second a stars	******	0				
viar											
mers	Sort	ov ke	V: NO	one	•	e une repour noue		cono			
	+ Op	tions									
			~	product_id	product_cat	product_brand	product_title	product_price	product_desc	product_image	product_keywords
		1	×	13	1	2	Dell Laptop	40000		dell laptop.jpg	new,dell
		1	~	11	2	3	Samsung A/	40000		samsunga/.jpg	new
		1	0	12	2	4	HIC 10	50000	-h2+ -strong+ Niss Lonton - atrong-	http://ht	nic
		1	^	10	1	'	HE FIUDUUK	50000		hp_probook.jpg	new,iapiop,np
	0	1	×	19	4	6	Sony Cyber Shot	14000	Sony Cyber Shot DSC W800	Sony Cyber shot.jpg	Sony Cyber Shot DSC W800
		1	×	15	1	7	Lenovo Z5170	65000	Lenovo Z5170 - Core i7 - 8GB RAM	Lenovo Z5170 - Core i7 - 8GB RAM.jpg	Lenovo, Z5170, Core i7, 8GB RAM
	0	1	×	16	5	7	Lenovo Tab 2 16GB	12000	Lenovo Tab 2 (A7-30) 16GB - White	Lenovo Tab 2 (A7-30) 16GB - White.jpg	Lenovo, Tab 2, (A7-30) ,16GB, White
		2	×	17	4	10	Fujifilm FINEPIX	23000	Fujifilm FINEPIX S2980 - 14MP - 18x Optical Zoo	Fujifilm FINEPIX S2980 - 14MP - 18x Optical Zoom.j	Fujifilm, FINEPIX ,S2980 ,14MP
		1	×	18	3	9	Asus Desktop	78000	Asus K31AD Desktop - Core i5 - 4GB	Asus K31AD Desktop - Core i5 - 4GB.jpg	Asus, K31AD, Desktop
		2	×	23	7	11	Women Bag	2700	Shoulder Bag for women with original leather. I	handbag.png	bag, new, women, leathe
		1	×	24	2	11	Xiaomi Redmi Note 3	16000	<div class="list -features" style="box- sizing: bor	xiaomi.jpg	new, xiaomi, redmi, note pro
		2	×	21	6	11	Short Sleeve T- Shirt	300	<h1 class="title" style="box-sizing: border-box; f	tshirt.jpg	tshirt, men, new, black
			X	22	8	11	Perfume for	2300	<div class="list -features" style="box-</td> <td>kids_perfume.jpg</td> <td>kids, perfume, disney</td>	kids_perfume.jpg	kids, perfume, disney

Database

## 11. TESTING

**Testing:** It is a process to check the system either any error occurs or not. There are four methods of testing are exist. These are:

### 11.1 <u>Unit Testing</u>

Each module is tested alone in an attempt to discover any errors in its code. It is Two types:

Black Box Testing: The tester focuses on whether the unit meets the requirements stated in the program specification.

White Box Testing: It looks inside the program to test its major elements.

### 11.2 Integration Testing

It is the process of bringing together all modules that a program comprises for testing purposes. There are four types of integration testing:

☞ User Interface Testing: The tester test each interface function.

Use Scenario Testing: The tester test each use scenario.

Data Flow Testing: It test each process in a stepby-step fashion. System Interface Testing: It test the exchange of data with other systems.

### 11.3 System Testing

It is the process of bringing together all of the programs that a system comprises for testing purposes. There are five types of system testing:

**requirements Testing:** It test whether original business requirements are met.

Usability Testing: Test how convenient the system is to use.

Security Testing: Test disaster recovery and unauthorized access.

Performance Testing: Examines the ability to perform under high loads.

Documentation Testing : It test the accuracy of the documentation.

### 11.4 Acceptance Testing

Actual user test a completed information system. There are four types of

acceptance testing:

Alpha Testing: Conducted by users to ensure they accept the system.

**Beta Testing:** Users closely monitor the system for errors or useful improvements.

## 12. LIMIITATIONS

1. Poor website design will turn a visitor off immediately. Our website design is not fully user friendly.

2. Shopping cart and checkout are not dynamic.

3. Local customers are encouraged.

## 13. CONCLUSION

The project will be helpful for the people who aren't able to shopping for busy schedule. It will make their life easier. Customer will be able to buy products of various categories from home via internet using any smart device. Payment system also very trustable as we maintain cash on delivery.

## 14. REFERENCES

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