



Gadgetfreaksbd E-commerce

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A project/report submitted
in partial fulfillment of the requirements
for the degree of
Bachelor of Science in Computer Science and Engineering

DECLARATION

I declare that this report/ project entitled “*GADGETFREAKSBD*” is the result of my own research except as cited in the references. The report /project has not been accepted for any degree and is not concurrently submitted in the candidature of any other degree.

CERTIFICATE OF APPROVAL

The project report/ project entitled “*GADGETFREAKSBD*” is submitted to the Department of Computer Science and Engineering at the University of Liberal Arts Bangladesh (ULAB) in partial fulfillment of the requirements for the degree of Bachelor of Science.

Dated:

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Signature & Date

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DEDICATION

To my lovely parents, who gave me endless love, trust, constant encouragement over the years, and for their prayers.

To my mentors and peers for their patience, support, love, and for enduring the ups and downs during the completion of this thesis.

This report/thesis is dedicated to them.

ACKNOWLEDGEMENTS

I might want to thank our specialty head Professor Dr. Syed Akhter Hossain and my supervisor T.M Abul Kalam Azad for favoring my report. I'm grateful to T.M Abul Kalam Azad for his mindful assistance and bearing.

I wish to express my deepest appreciation to all those who helped me, in one way or another, to complete this project. First and foremost, I thank Almighty who provided me with strength, direction, and purpose throughout the project.

Special thanks to my project supervisor T.M Abul Kalam Azad all his patience, guidance, and support during the execution of this project. Through his expert guidance, I was able to overcome all the obstacles that I encountered in these enduring three months of my project. In fact, he always gave me immense hope every time I consulted with him over problems relating to my project.

ABSTRACT

This project report focuses on my contribution towards "E-COMMERCE". This report provides the working process of Online shopping website Development. My responsibility was completing Online shopping website development projects. This report explains my completed and contributed projects. I intended for the front end to utilize HTML 5 and CSS 3. For the backend, I used PHP and MySQL. Top first if the user login his/her name show. Then the navigation bar shows the category name. Then the product gallery shows pictures and prices. The errand is analyzed about the machine and programming used to work up the task (it has a front end by HTML, CSS, JavaScript to show substance design and back end that using MySQL and PHP). Finally, the report closes with what I have completed through my task period.

TABLE OF CONTENTS

DECLARATION

CERTIFICATE OF APPROVAL

DEDICATION

ACKNOWLEDGEMENT

ABSTRACT

TABLE OF CONTENTS

TABLE OF FIGURES

LIST OF ABBREVIATIONS

Introduction

Overview

Methodology

Primary Source

Secondary Source

Tools and Technology

Management Tools

Visual Studio

XAMPP

Frontend

HTML

CSS

Backend

PHP

JavaScript
MySQL

Project Design

Software Development Lifecycle (SDLC)

Planning

Analysis

Design

Implementation

Testing and Integration

Maintenance

SRS (System Requirement Specification)

Function Requirement

Non-Functional Requirement

Project Design and Development

Project Background

Use Case Diagram

Activity Diagram

Entity Relation Diagram

Homepage

Admin

Login and Register Page

Sub-category Page

My Wishlist

My Cart Page

Product Details page

Recommended Product Page

Order View Page

Implementation of Database Design

Project Background

Database of Shopping Portal

Conclusion

TABLE OF FIGURES

Software Development Lifecycle (SDLC)

Use-Case Diagram

Activity Diagram

Er Diagram

Home Page

Admin Page

Login and Registration Page

Sub-Category Section

My Wishlist

My Card Page

Product Details

Recommended Product

Order View for User

Database of Shopping Portal

TABLE OF ABBREVIATIONS

CSE COMPUTER SCIENCE AND ENGINEERING

ULAB UNIVERSITY OF LIBERAL ART BANGLADESH

PHP PHP HYPertext PREPROCESSOR

SUMMARY

Even though the terms e-commerce and e-business are sometimes used interchangeably, there are some distinctions. The purchasing and selling of products and services through the internet or another computer network are known as e-commerce. By integrating a virtual storefront with an online catalog, any brick-and-mortar store may become an e-commerce firm. In most situations, e-business refers only to online businesses, but it may also apply to any company that employs internet technology to boost productivity and profits.

What is E-Commerce

Commonly known as Electronic Marketing. “It consists of buying and selling goods and services over an electronic system Such as the internet and other computer networks.”

INTRODUCTION

As a CSE understudy, I had to build a website. I had to work to find out how to be a good web engineer.

Purpose of this document

In this document, there is an overall description of the Web Project. It includes what I did. There is also a description of the work experience gained from this project. The whole description of the designing face and cost is included in this document.

Methodology

The object-oriented system, which is a model-driven technique that combines data and processes, is the development project used in this article. In order to assess the research and to interpret and provide a description of the system, a system requirement specification was set out.

Primary Source

YouTube and many other coding blogs were my primary source.

Secondary Source

For the additional data, I collected them from various websites and the sources that are given in the references.

TOOLS AND TECHNOLOGIES

I will address the technology in this section, and also the methods of research I have used and the resources I have used to prepare the system. The maximum technologies in question for this project are web-based. The tools' names are HTML, CSS, JavaScript, jQuery, PHP.

Visual Studio

Visual Studio is open-source free software. It is very good for coding for its easy interface. It is famous for its lite weight. Any type of programming language can play it.

Domain & Host

An HTTP server, MariaDB database, and mediators for contents written in the PHP and peels programming. For Cross-Platform (X), Apache (A), MariaDB (M) (MYSQL a few years ago), PHP (P), Perl.

Frontend Language

Frontend development manages everything that clients outwardly observe first in their program or application. Front-end designers are in charge of the look and feel of a site. I have to manage the content that I want to see in my browser. Front-end languages include HTML, CSS, and PHP.

HTML

HTML means hypertext markup language. Hypertext is the language often used over the net by the life of the architect to explain the content of their site to the end of the client. This language uses name to map all of the components from which it holds knowledge. Each tag appears on the website, regardless of the particular style applied to it. This can be created by any substance tools and saved with a hypertext increment language extension as substance archives.

CSS

Falling style sheets guide the styling of HTML names or their presence. To practice the style as represented by techniques for the proofreader of the formats, templates use a development called selectors to allude to HTML names. They can be inserted in HTML marks, they can be guaranteed in disengaged style names that are normally put in the HTML record head rag, they can be saved as autonomous reports with a CSS creation and included with the association name guide in the HTML archive.

Backend Language

Backend language is important for all software development parts. The backend part controls the basic architecture, choosing how to organize the logic of the system so that it can be properly maintained and run.

PHP

PHP means Hypertext Preprocessor. It is also a scripting language and is a language on the side of the work. This implies that although they receive HTML, CSS, and JavaScript records, customers who look at the site and submit mentions of objects will not get any PHP substance. Staff is required to choose the HTML files from the PHP material and submit the HTML records in the same way from that point on. PHP can be used for specific items completed such as organizing databases of knowledge, expanding on web business locations, creating simple affiliations, making applications for work and fields, and more fundamentally.

JavaScript

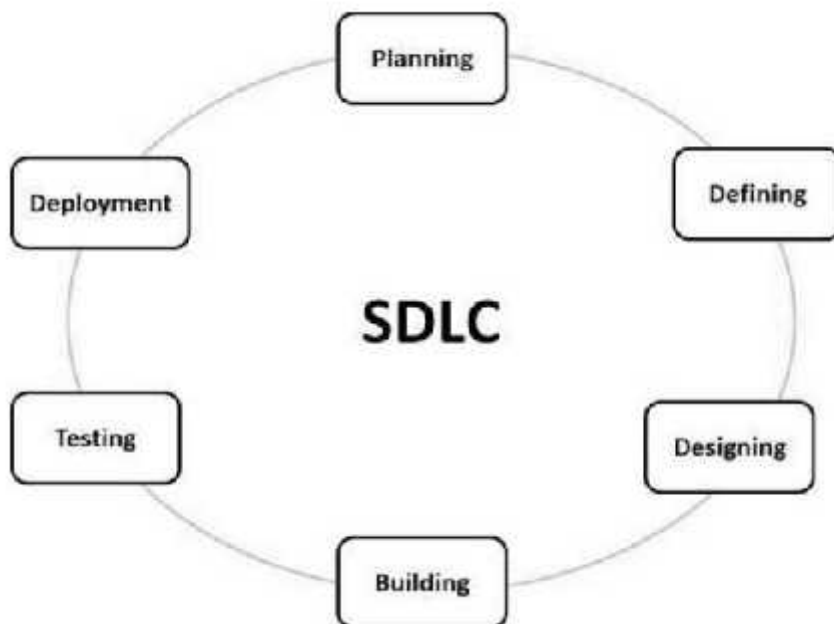
A customer-side scripting language may be JavaScript. Its focus is close to that of ofc, java, and programming language selection, JavaScript is amazingly awesome, and it's not going to make a website extra fantastic. It would be appropriate to use a regular HTML name that is usually similar to CSS extra.

My SQL

MySQL is an open-source social database administration framework (RDBMS) in view of Structured Query Language (SQL). It keeps running on for all intents and purposes for all stages, including Linux, UNIX, and Windows. MySQL as the social database administration framework and PHP as the protest arranged scripting dialect. It is a user-friendly database system that can be used most of the time all over the world.

Software development lifecycle (SDLC)

Every territory depends on the information seventeen made by the previous one, thus all of them pass on a lot of or less proportionate significance. The resulting figure is the group advancement life cycle.



Software Development Life Cycle is consisting of:

- Planning
- Analysis
- Design
- Implementation
- Testing and Integration
- Maintenance

Planning

The basic cycle of programming movement is Organizing, which is done by the ablest and skilled programming engineer. Fundamentally gathering needed to guarantee the client's need and saw. Various solicitations must be introduced in this development which is important for making and building up an ideal and steady thing for that client. All data must be useful for all designers. For the vital programming, I need to be weak in undertaking all data and start planning.

Analysis

In this stage, the code engineers must use some Programming Language such as HTML, CSS, PHP. These are very popular and user friendly and easy to work with, that's why I was using These Programming languages.

Design

Design is the most important part of this development, which is recorded by Archive Determination (DDS). For this development, I've needed User Interface design building modules to correspond and data flow, and outsider modules are arranged by arrangement increase.

Implementation

The open door has been showing up to begin coding right when a solid plan has been made. More small modules are split into the overall system and administered to different social occasions or individuals to make the effort ceaselessly fair. The architect has the most spotlight at this stage and it also happens to be the longest season of the lifecycle of improvement. The application is usually finished in sections so that it can see what has been finished during the process to ensure that everything is clear in any case of what they wanted.

Testing

At the stage where the system is created, it should be tried to make sure that it is first the point that it was fully created. This can be achieved by a bunch of QA (Quality Assurance) or QC

(Quality Control) that conducts entirely unpredictable testing techniques such as unit testing, functional testing, and analytical testing.

Maintenance

The item is set up to be passed on in the week of testing and then the thing is formally spread within the right marketplace for the end-customer. At the point where the item drives free, In any case, when regularly, it requires maintained study, It's some limited level. Therefore, items can have bugs frequently so time fixing bugs is necessary. Anything fairly maintained is completed by the architect for the consumer's need right when the product is in the free off-base market. In any event, the overall structure of the PC code enhancement life cycle is a professional and also a specialist.

Economical Feasibility

This application's development is extremely cost-effective. The company did not need to spend a lot of money to develop the system that was already in place. The only thing left to do is create a conducive atmosphere for development under efficient monitoring. If we do so, we will be able to maximize the usage of the relevant resources. The organization will not be able to invest more in the organization even after it has grown. As a result, the system is economically viable.

SRS (Software Requirement Specification)

The reason for the SRS (Software Requirement Specification) record is to display the venture's external actions. It characterizes the Hotel reservation system's functions, usually execution and prerequisites. By using the SRS, this entire venture necessity for the system is captured.

Functional Requirements:

The plan of functionalities maintained by using the venture is to be shown in order to detail the helpful needs. A trademark can be specified by the guide to perceive the country in which the truths are to be committed to the venture, the territory of its data experience, the space of the yield real factor, and such a schedule to be carried on the entry data to achieve the yield data.

Inputs:

Unique segment-premises can be the key contributions to the shopping portal system. At first, most data is generated by programming, and then to get to the information that the person can make their personality secret key through id and client.

Output:

The table and report are important results of the method. The table is made capable of meeting the requirement of need. The document, so this is undeniable, passes on the entire knowledge that streams over the association to the substance. The operation should have the option of

conveying the result to different data wellsprings on different data wellsprings on different fragments.

Non-Functional Requirements:

Security: The operating administrator and customer agent will have the option of signing in to the system (Shopping Portal) and approaching the project, but it will be protected by client username and secret term.

Performance: The reaction time limit for the front–end page must be 30 seconds.

Usability: It will be easy to learn the entire project feature and customers can easily run it.

Hardware Required

Processor : Pentium IV or Above

RAM : 2 GB or above

Hard Disk : 50GB or above

Input Devices : Keyboard, Mouse

Output Devices : Monitor

Software Required

Operating System : Linux, Ubuntu, Mac, Windows XP, 7, 8, 8.1, 10

Frontend : HTML, CSS, Bootstrap, JavaScript

Backend : Laravel, Vue js, MySQL

Localhost : XAMPP/WAMP/LAMP/MAMP

PROJECT DESIGN AND DEVELOPMENT

My aim was to develop a web application that would be sufficiently beguiling, have an export look and guide. With the aim of serving people of all ages, its final customers will be. My progress started with the sub-isolation of the entire undertaking and the creation of achievement. The success will be an example of beating adversity and a marker of the level of the job accomplished.

3.1 Project Background

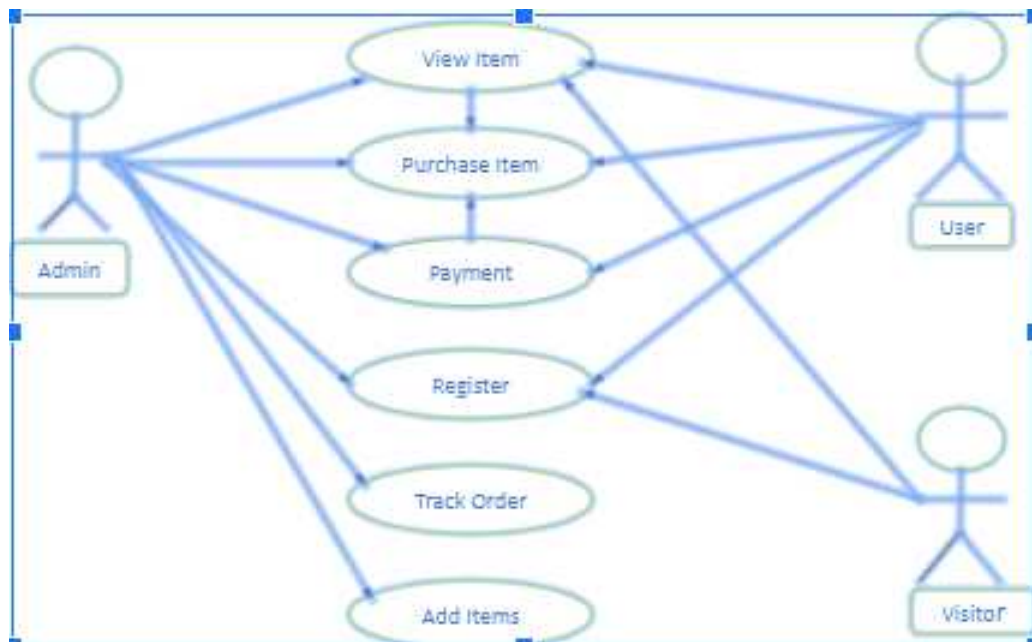
My job exercise was spun around making Web apps. I was allocated to establish a system for online shopping. The fundamental point of the attempts is to build web applications for individuals that can break down and see distinctive accommodations and book them on the web which banalities different individuals.

3.1.1 Front End Design or User Interface

I've followed bootstrap's incredibly well-known and regular GUI. It is a free and open stage for the framework of content administration. By using this technique and style it can be new. In addition, with its highlights and schedule, clients feel good.

3.2 Use Case Diagram

This is my project use case diagram. Use cases are used to make good software products. Use case diagrams to show how many characters can use your system. In my system, there are 3 characters. Such as User, Visitor, Admin. Users can access view items, purchase items, payment, and register. Visitors can access view items, register. Admin can access view item, purchase item, payment, register, track order, add an item, edit item description.



Features

•Menu

- Catalog Browsing**

- Category List

- Product List

- Product Browsing**

- Product Reviews

- Recommendation Products

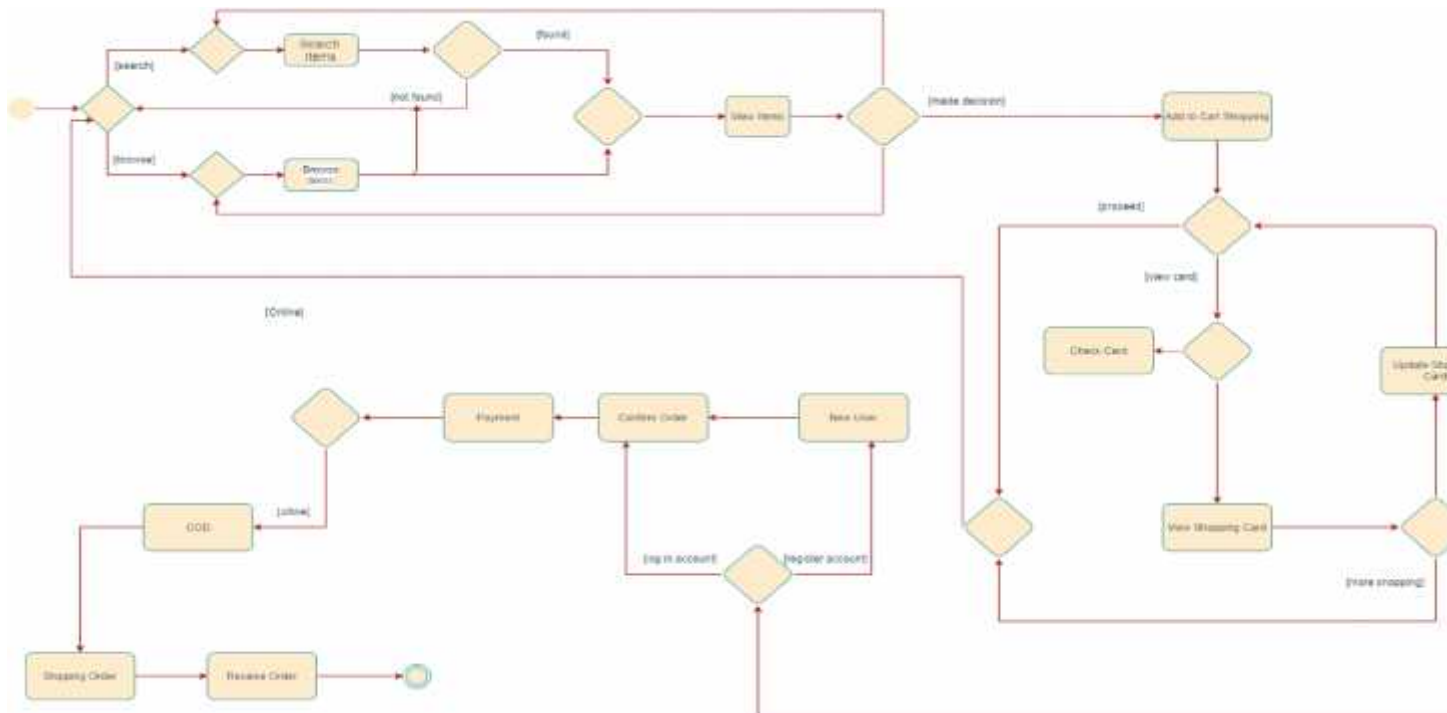
- Shopping Cart**

- Search box**

- Checkout**

Activity Diagram

Visually presenting a series of actions is called an activity diagram. Activity diagrams show the business process modeling. In my project how activity done from a character to another is shown. To see the activity diagram anyone can understand what type of action the characters have.



Entity Relationship

It is the representation of the element that demonstrates the relationship between element sets put away in a database of information or a data structure. A social component diagram (ERD) is the representation of a material that represents the interrelation of the components that appears to be taken care of in a DB or a knowledge structure.

The top 5 portions are:

Entity: An entity is an object that enables the storing of data

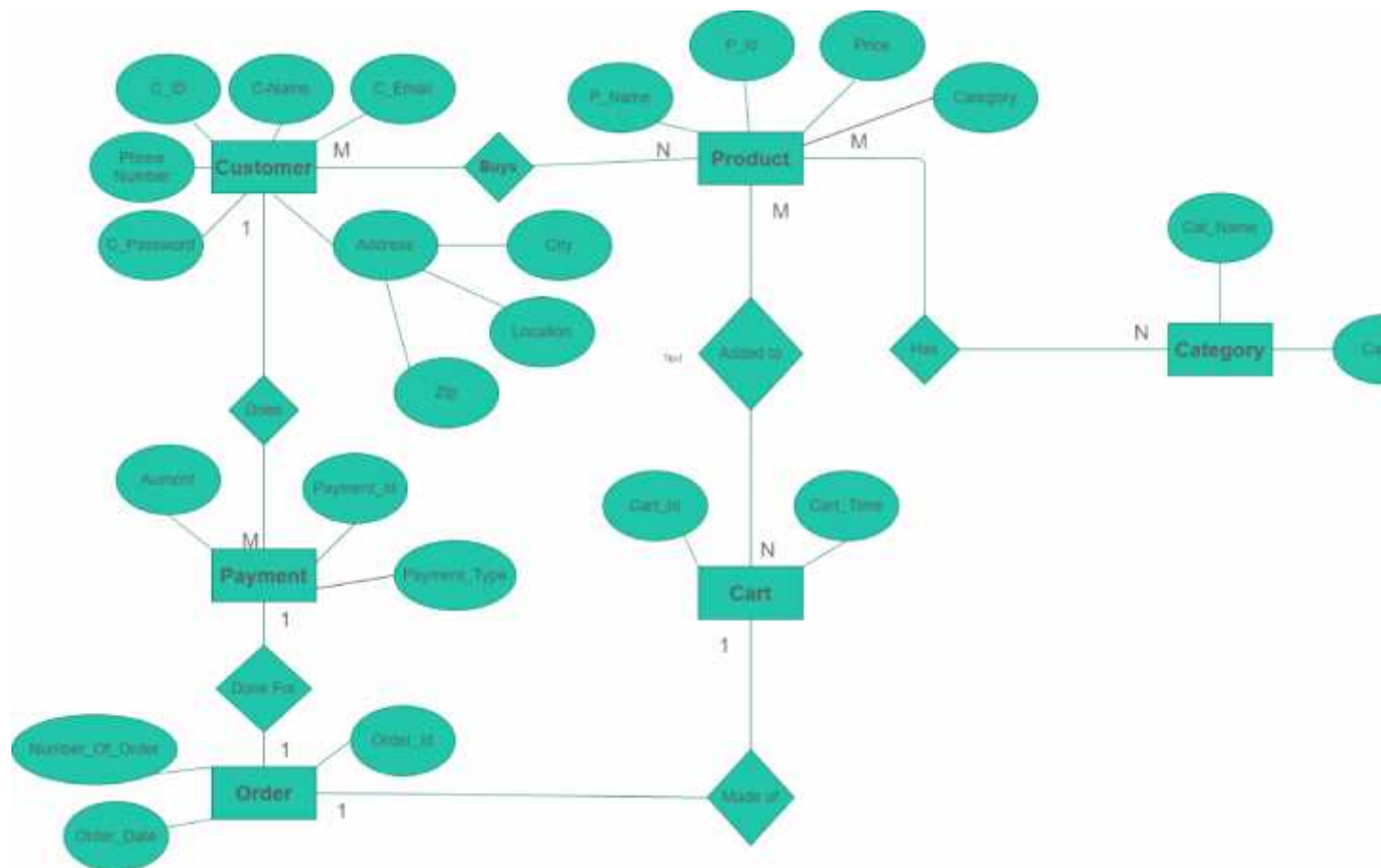
Actions: An activity reflects the data sharing entities in the DB.

Attributes: An attribute is referred to as being unique.

Connecting lines: This represents strong lines that interface with ascribes to show the connections in the graph.

Cardinality: Defines the number of interrelationships between events in the graph.

I gave the figure, so the ER diagram is right here.



ADVANTAGES OF E-COMMERCE

- Faster buying/selling procedure, as well as easy-to-find products.
- Buying/selling 24/7.
- More reach to customers.
- Low operational costs and better quality of services.
- No need for physical company set-ups.
- Easy to start and manage a business.

DISADVANTAGES OF E-COMMERCE

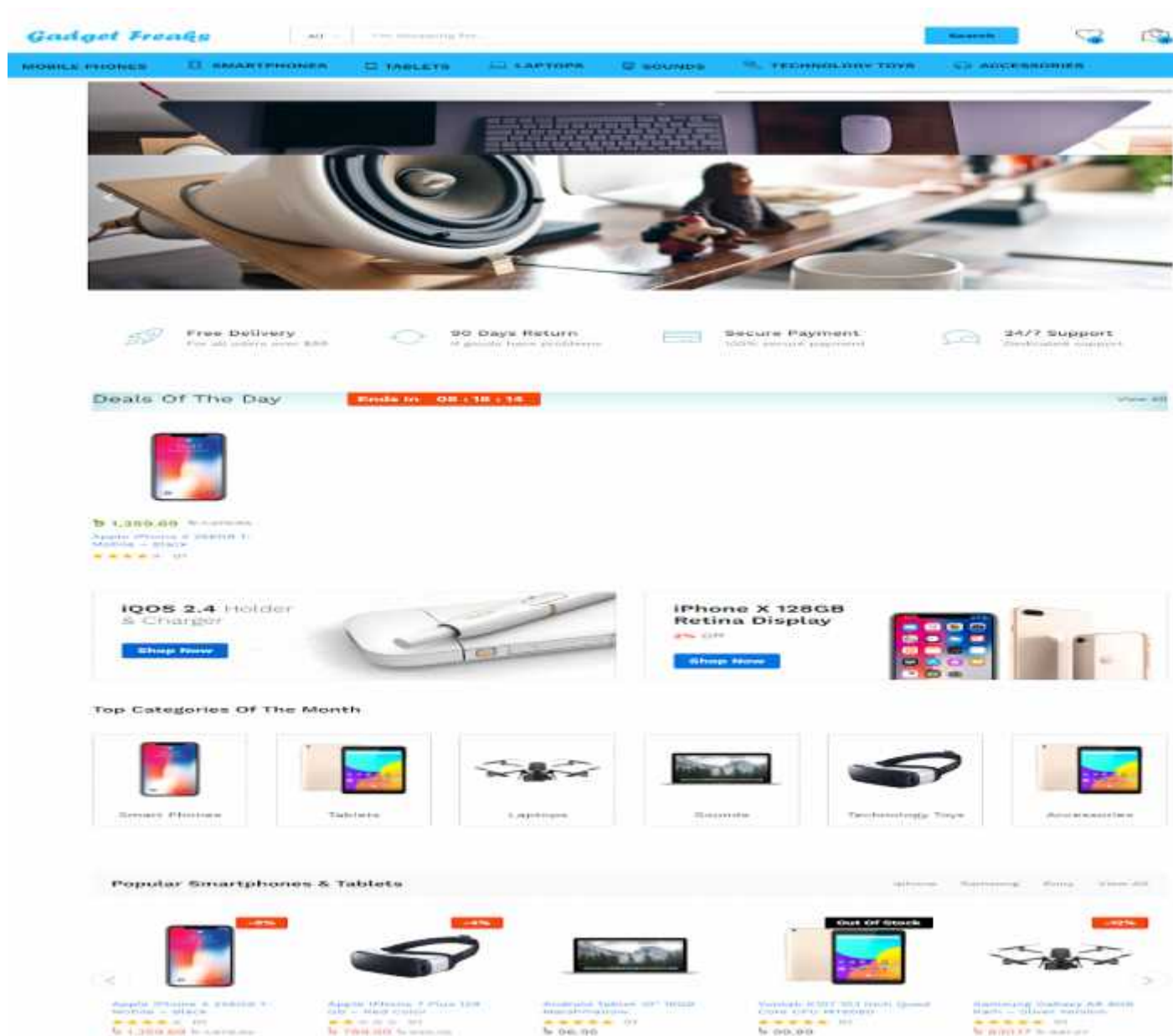
- Unable to examine products personally
- Not everyone is connected to the Internet
- There is the possibility of credit card number theft

GUI(Graphical User Interface)

HOME PAGE

A home page is a web page that acts as the website's initial landing page. It's the first page that loads when you go to a website. A website's home page is found in the root directory. Most web servers let you choose from a variety of filenames for your home page. Index.html, index.htm, index.php, default.html, and home.html are other examples. On both Apache and IIS servers, the default filename for a website's home page can be changed. The home page URL does not need to contain the filename because it is loaded automatically from the root directory. Although there is no standard home page layout, most have a navigation bar with connections to other areas of the website. A search bar, information about the website, and current news or changes are all standard aspects on a home page. Some websites include material that is updated on a daily basis. The Tech Terms home page, for example, contains a daily quiz and a tech word of the day. The shopping system's home page contains a number of components, which are listed below.

- Top Selling: The product's top-selling position is shown at the top of the home page.
- Menu: The home page has menus organized by product category, and customers may search for products in the category they want.
- Cart: The customer may view the items he has placed in his cart.
- Create Account: Customers who do not have an account can create one from this page.
- The most current product that was added later is displayed on the right section of the home page as well as the center of the home page.
- Customers may view the goods according to the manufacturer at the footer of the home page.
- The current promotion or deal is shown in the middle of the home page.
- Account, Help, and Popular menus at the bottom of the page. The popular menu will provide the most recent product, Contact information, and Account information for registering or logging in as an existing user.



Admin Panel

The admin component of the system is quite significant, and he is responsible for all aspects of the shopping system. When the system is finished, an admin user is created,

and he may log in using the admin user's email address and password. After logging in with a valid user id and password, the admin will see a new menu on his panel. Category will be on the admin's menu, with submenus Add Category, Manage Category, and Archive Category under it. He will also have access to the Manufacturer menu, which includes the submenus Add Manufacturer and Manage Manufacturer. Under the product menu, he will find the Add Product, Manage Product, and Archive Product submenus. The product request from a customer will appear in the Manager Order menu.

All (3) | On hold (1) | Completed (1) | Cancelled (1)

Search on

Bulk actions

▼

Apply

All dates

▼

Filter by registered customer

▼

Filter

☐	Order	Date	Status	Total	Nagad No.	Trans. ID
☐	#4150 Farzana Yeasmin	 8 mins ago	On hold	৳ 96.95		
☐	#4159 Tahmid Hasan	 Jun 7, 2021	Cancelled	৳ 1,359.69		
☐	#4150 Borhan Omar	 Apr 12, 2021	Completed	৳ 1,359.69		
☐	Order	Date	Status	Total	Nagad No.	Trans. ID

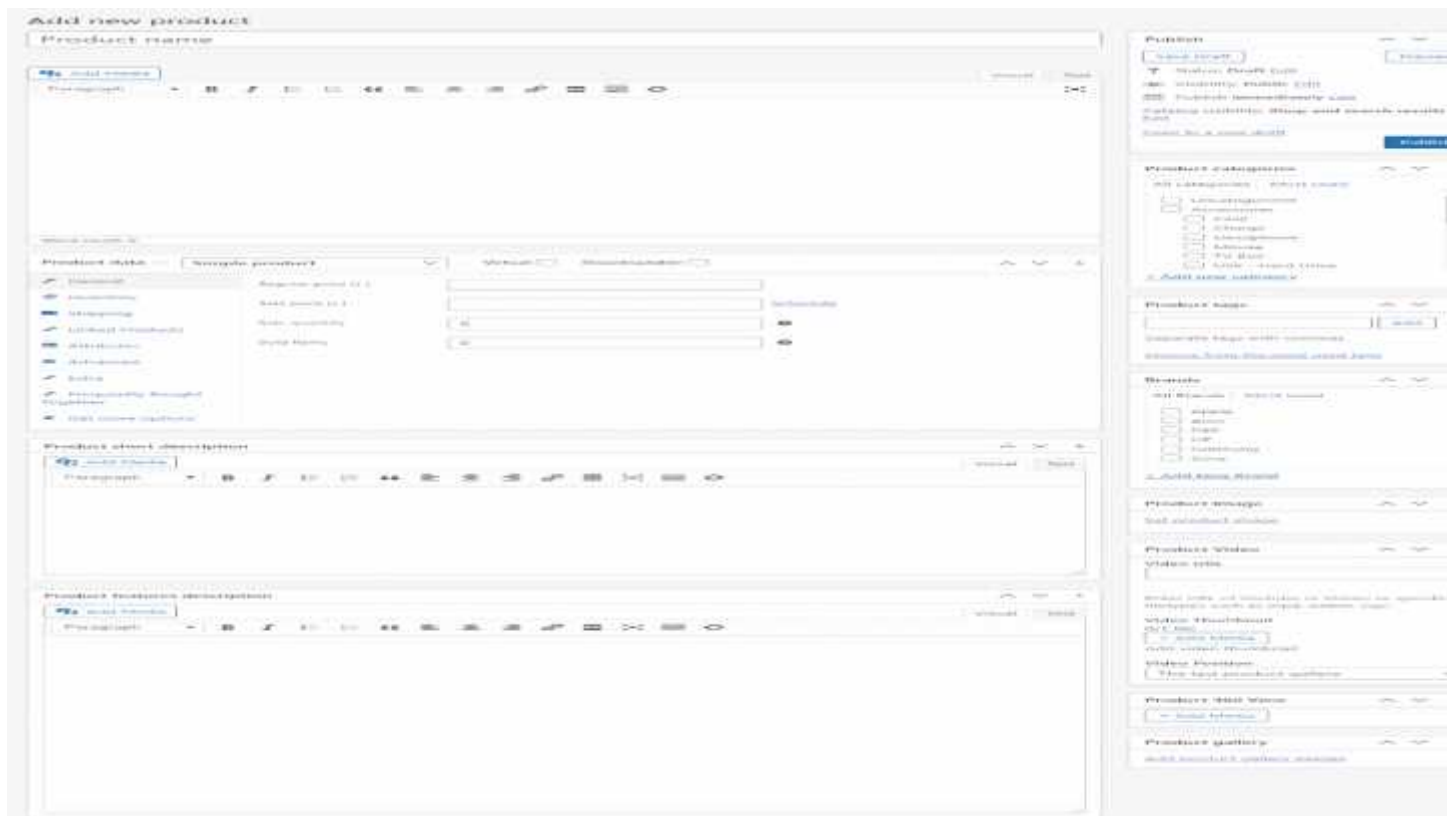
Bulk actions

▼

Apply

Insert Product page

From the admin panel, add a product that will appear on the home page if the publishing status is set to published, but will not appear if the publication status is set to unpublished.



Single Product Page

Customers can display product information on the product page.

Gadget Freaks

All **Search**

MOBILE PHONES SMARTPHONES TABLETS LAPTOPS SOUNDS TECHNOLOGY TOYS ACCESSORIES

Home / Shop / Smartphones / Mobile Phone / Apple iPhone X 256GB T-Mobile – Black

Apple iPhone X 256GB T-Mobile – Black

Brand: Apple ★★★★★ (1 Review) SKU: V078864381230

\$1,359.69 ~~\$1,499.99 (-9%)~~

Status: **In stock**

- Unrestrained and portable active stereo speaker
- Free from the confines of wires and chords
- 30 hours of portable capabilities
- Double-ended Call Cord with 3.5mm Stereo Plugs Included
- 3/4" Dome Tweeters: 2K and 4" Woofer: 1K

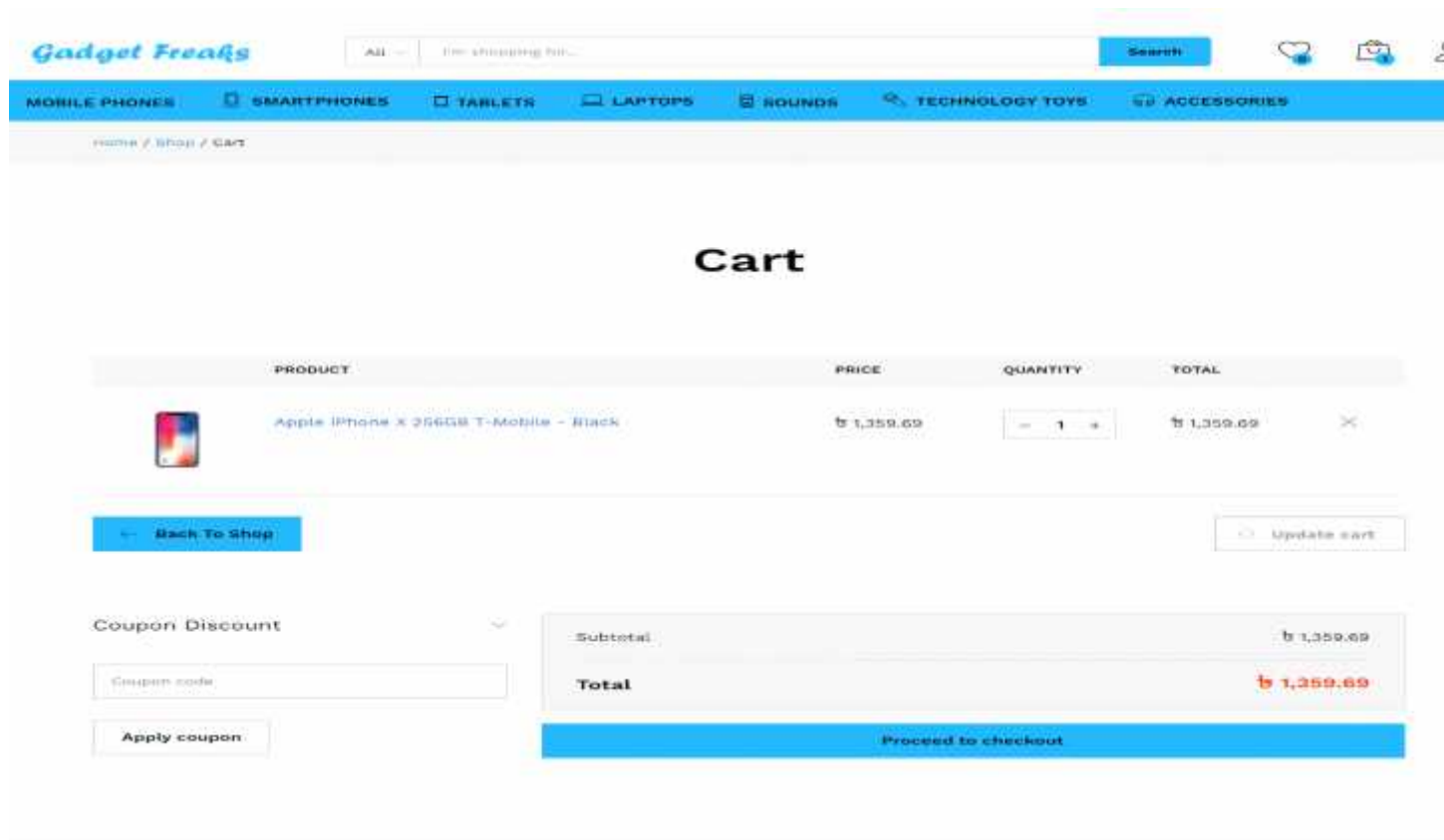
Quantity: **Add to cart**  

Categories: Mobile Phone, Smartphones
Tags: Mobile, smartphone

Roll over image to zoom in

Cart page

To purchase a product, the consumer must first add it to their shopping basket. By hovering the mouse over the product image, customers may see product details as well as a larger view.



Checkout Page

The consumer can see the product, change the quantity, remove the product from the basket, and submit a check-out request.

Checkout

Have a coupon? Click here to enter your code.

Billing details

First name *

Last name *

Country / Region *

Street address *

Apartment, suite, etc. (optional)

City *

State *

Zip code *

Phone *

Company *

Company address *

Company phone *

Company fax *

Company email *

Company website *

Company address 2 *

Company address 3 *

Company address 4 *

Company address 5 *

Company address 6 *

Company address 7 *

Company address 8 *

Company address 9 *

Company address 10 *

Company address 11 *

Company address 12 *

Company address 13 *

Company address 14 *

Company address 15 *

Company address 16 *

Company address 17 *

Company address 18 *

Company address 19 *

Company address 20 *

Your order

PRODUCT	SUBTOTAL
Apple iPhone 8 (64GB) - Mobile - Black - 8	\$ 2,719.98
Subtotal	\$ 2,719.98
Total	\$ 2,719.98

☒ Direct bank transfer

Make your payment (Please note that bank account transfer is not possible for all countries. Please contact your bank for more information.)

☐ Cash on delivery

☐ Credit card

☐ Debit card

☐ PayPal

☐ Apple Pay

☐ Google Pay

☐ Samsung Pay

☐ Microsoft Pay

☐ Amazon Pay

☐ Venmo

☐ Cash App

☐ Bitcoin

☐ Ethereum

☐ Litecoin

☐ Bitcoin Cash

☐ Dogecoin

☐ Monero

☐ Zcash

☐ Dash

☐ Bitcoin SV

☐ Bitcoin Gold

☐ Bitcoin Private

☐ Bitcoin Diamond

☐ Bitcoin Cash ABC

☐ Bitcoin Cash SV

☐ Bitcoin Unlimited

☐ Bitcoin Classic

☐ Bitcoin SV Classic

☐ Bitcoin SV Classic 2

☐ Bitcoin SV Classic 3

☐ Bitcoin SV Classic 4

☐ Bitcoin SV Classic 5

☐ Bitcoin SV Classic 6

☐ Bitcoin SV Classic 7

☐ Bitcoin SV Classic 8

☐ Bitcoin SV Classic 9

☐ Bitcoin SV Classic 10

☐ Bitcoin SV Classic 11

☐ Bitcoin SV Classic 12

☐ Bitcoin SV Classic 13

☐ Bitcoin SV Classic 14

☐ Bitcoin SV Classic 15

☐ Bitcoin SV Classic 16

☐ Bitcoin SV Classic 17

☐ Bitcoin SV Classic 18

☐ Bitcoin SV Classic 19

☐ Bitcoin SV Classic 20

Additional information

Order notes (optional)

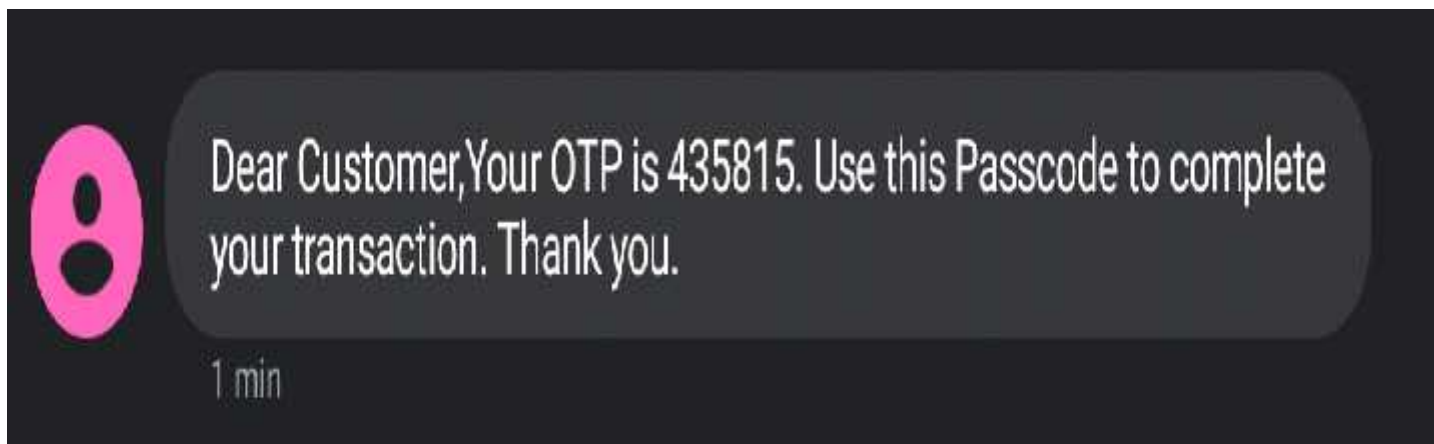
Please allow your credit card company to process your order.

☐ I have read and agree to the website terms and conditions.

Place order

Verification Text

Customers can choose from a variety of payment methods to cover the cost of the product. After choosing a payment option, the buyer must confirm their order. Then an OTP will be given to their number for verification.



Conclusion

This is a commerce site with a registration administrator and the option for consumers to register as well. This system's main controller is the administrator. The travel platform contains many types of hotels and their accommodations, as well as unit pricing and privileges. The principal controller is the proprietor of this shopping site. Admin must first log in to the admin panel, where he or she can add, enhance, or transfer items as needed. There will be pages dedicated to the hotel's services. The visitor can look at the items without having to register. There will be a wide range of merchandise available. When users search for a product, comparable products are suggested. They will have the option to choose what they want. I was properly researching backend and database association with PHP because it was new to me, but I couldn't get a handle on the extent of it. On my web development project, I choose PHP since it is dependable, easy to learn, and open source. Furthermore, it is a viable option. The most important component is that it is so linked with the knowledge base, which it cannot implement even if data is set. In this regard, the project language is quite safe.

Future Scope

The idea identifies the primary medium-term directions for e-commerce development, as well as ways and means of enhancing the competitive environment, developing modern infrastructure and creating new employment, and improving e-commerce regulations.

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