

Gayerhat E-commerce Website

By

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Id: 161-35-1468

This Project report has been submitted in fulfillment of the requirements

For the Degree

Of

Bachelor of Science in Software Engineering.

Department of Software Engineering

DAFFODIL INTERNATIONAL UNIVERSITY

Fall - 2019



Gayerhat E-commerce Website

Submitted to

Mr. MdFahad Bin Zamal Assistant Professor & Associate Head (In-Charge) Department of SWE

Daffodil International University

Submitted by Md. Raisul Islam ID: 161-35-1468

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Of

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DECLARATION

It hereby declares that this project has been done by me under the supervisor of, Lecturer, Department of Software Engineering, Daffodil International University. It is also declared that neither this thesis nor any part of this has been submitted elsewhere for award of any degree.

aui

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APPROVAL

This **project** titled "**Gayerhat E-commerce**", submitted by **Raisul Islam**, **ID: 161-35-1468** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc in Software Engineering and approved as to its style and contents.

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Internal Examiner 2

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ABSTRACT

Electronic Commerce is process of doing business through computer networks. A person sitting on his chair in front of a computer can access all the facilities of the Internet to buy or sell the products.

Unlike traditional commerce that is carried out physically with effort of a person to go & get products, ecommerce has made it easier for human to reduce physical work and to save time.

E-Commerce which was started in early 1990's has taken a great leap in the world of computers, but the fact that has hindered the growth of e-commerce is security. Security is the challenge facing e-commerce today & there is still a lot of advancement made in the field of security.

The main advantage of e-commerce over traditional commerce is the user can browse online shops, compare prices and order merchandise sitting at home on their PC.

For increasing the use of e-commerce in developing countries the B2B e-commerce is implemented for improving access to global markets for firms in developing countries. For a developing country advancement in the field of e-commerce is essential. The research strategy shows the importance of the e-commerce in developing countries for business applications.

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Chapter 1:Introduction

1.1Project Overview:

Gayerhat($\square \square \square \square \square \square \square \square \square$) is established with a view to providing pure food product to the customer.Gayerhat has special mission and they are committed to provide fresh and pure food to the customer.

1.2Project Purpose:

The main purpose of Gayerhat e-commerce website is to enable Gayerhat team to show their product to their customer so that customer can see product details and order them afterwards. This will also help expansion of Gayerhat as a business.

1.3Background:

Gayerhat($\square \square \square \square \square \square \square \square$) is established with a view to providing pure food product to the customer. Gayerhat has special mission and they are committed to provide fresh and pure food to the customer. I am willing to build this project with a view to help and spread good will of the Gayerhat($\square \square \square \square \square \square \square$) so that mass people can enjoy fresh food.

1.4Benefits & Beneficiaries:

Benefits:

- 1. Gayerhat can spread their products to mass people so that their business can increase.
- 2. Mass people can enjoy fresh and pure products.

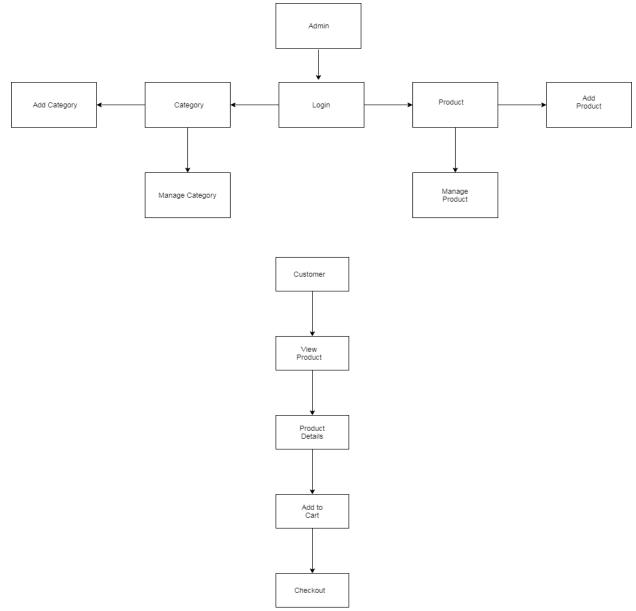
Beneficiaries:

1. Gayerhat(company itself)

2.Mass people who want enjoy pure food.

1.5Goals:

- 1. To provide a medium so that company can show product to mass people.
- 2. Expansion of Gayerhat business.



1.6Proposed System Model (block diagram):

1.7Project Schedule:

Gantt Chart:

Gayerhat 0h First Group (click to rename) 0h	100%	1216	23	3D 7	14	21	28	4	11	18 2	5 2
First Group (click to rename) 0h											
	100%										
	100 %		-		-	-			-		
Requirement Collection 0	100%		Rais	ul Islam	1						- 11
planning 0	100%			Raisu	ıl Islam						
Design 0	100%				Raisu	l Islam	1				- 11
Coding 0	100%		Raisu	ıl Islam							
Testing 0	100%								Rais	ıl Islam	

Chapter 2: Software Requirement Specification

2.1Functional Requirements:

- 1. Admin must be able to log in to the system.
- 2. Admin must be able to add category to the software.
- 3. Admin must be able to manage category ,that is edit, update and delete category.
- 4. Admin must be able to add product to the system.
- 5. Admin must be able to manage product to the system.
- 6. Customer must be able to see all products on the webpage.
- 7. Customer must be able to seeproductname, price, quantity on the product details page when clicked on the 'product details' button.
- 8. When clicked on the 'Add to cart' button, customer must be able to see Item, price, quantity, total price.

2.2Data Requirements:

Defining data requirements for need to build a model. Our system maximum data would be

loaded form internal user. For this cause we need to focus some kind of major points.

Such as:

1. Types of entity of the system

2.Route data locations

3. Capacity and resources of the data requirements

4.Data source sequence

5.Data availability schedules

6.Quantity of data

7. Availability of data

2.3Performance Requirements:

To maintain performance of a software system it is very important. To ensure performance, as a developer we need to manage and maintain some steps. Now, I try to discuss about perspective by going to enhance the performance of this system project.

2.3.1Speed and Latency Requirements:

For software development process it is very important for speed and latency must be ensured

while retrieving data from the cloud server.

SLR-1 Data generate result must be faster.

Description When Admin access the software, it's generating

report based on cloud database very quickly.

Stakeholders All users.

2.3.2Precision or Accuracy Requirements:

Result of a software system to be to the end user is must be needed to be accurate. Wrong

information might be ruined the whole business process.

2.3.3Capacity Requirements:

We must developed a system which be capable to handle user, provide accurate information, Handling database, manage http request etc.

2.4Dependability Requirements:

The term dependability is measured based on four dimensions. Such as:

- □ Availability
- □ Reliability
- □ Safety
- □ Security

When we want to say our system is dependable and safe then we must say that we can fulfill the

four above dimension. We also want to say that there is no way to make any kind of mistakes of

our system. Besides that, it is also very important to limit the damage which might be caused by

system failure.

2.4.1 Reliability Requirements

Now, I will mention requirements which are related to reliability and availability.

2.4.2 Availability Requirements

Quantity of the products should be available for customers to purchase.

2.4.3 Safety-Critical Requirements

Admin must be valid and authenticated before login.

2.5Maintainability and Supportability Requirements

2.5.1 Maintenance Requirements

Website should be uploaded to web server with proper rules.

2.5.2 Supportability Requirements

Web server should be authentic where the website is going to be uploaded.

2.6 Security Requirements

Security requirements are one of the most common requirements for my content management system.

2.6.1 Access Requirements

There is no registration system for visitor. This is why there is no security issue for visitor. Admin have to be registered. System verifies user email when register. System also authenticates user email and password when login.

2.6.2 Integrity Requirements

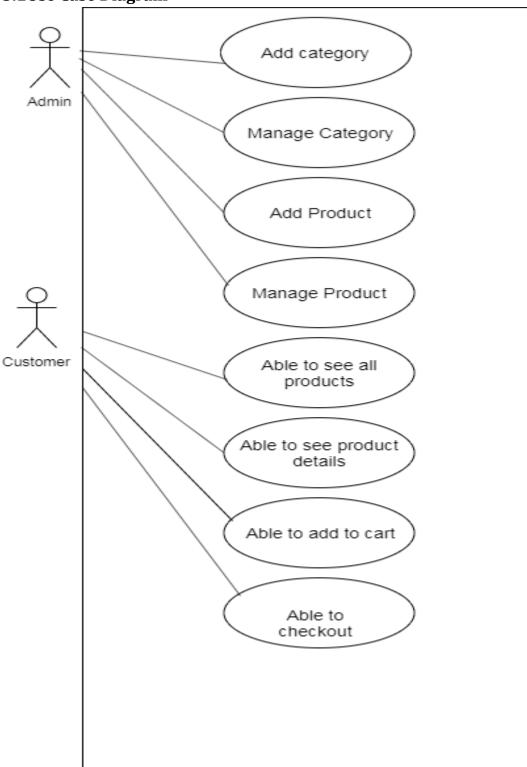
No fields can be left empty when updating product details and category details.

2.7Legal Requirements

2.10.1Compliance Requirements

Customer can submit complain about faulty checkout and products.

Chapter 3: System Analysis



3.2Use Case Description

Add Category:

Use case name	Add Category:			
Scenario	Admin can add category.			
Triggering Event	Different categorized items need to be added for the purpose of business.			
Brief Description	Admin should be able to add different categorized product with category name, category short description, category long description.			
Actors	Admin			
Related Use Case				
Stakeholders	Admin, company			
Pre-conditions	Admin must be authorized and logged in to the system			
Post-conditions	Category must be added to the software.			
Flow of activities	Admin			
	1.Admin clicked on the 'Add category' button.			
	2.A form opens and admin put category name, category long description.			
	3. After all necessary inputs admin clicks on the "save changes" and all the information saved in the database.			
Exception conditions	1. Other person hacked admin par	ssword and username.		

Manage Category:

Use case name	Manage Category
Scenario	Admin can edit, delete category.
Triggering Event	New category need to be edited for
	business purpose.
Brief Description	Admin should be able to edit, delete
	category.
Actors	Admin

Related Use Case	
Stakeholders	Admin, company
Pre-conditions	Admin must be authorized and logged in to the software.
	A category needs to be edited.
Post-conditions	Category is edited.
Flow of activities	Admin
	 A category needs to be edited. Admin clicks on the edit button. After clicking on the edit button, admin is redirected to the edit category page. Then admin can edit category details.
Exception conditions	1. Category is Edited with wrong information.

Add Product:

Use case name	
	Add Product
Scenario	Admin can add product.
Triggering Event	A product needs to be added to the
	software.
Brief Description	For business purpose a product needs to be
	added to the software.
Actors	Admin
Related Use Case	
Stakeholders	Admin,Company
Pre-conditions	Admin must be authorized and logged in to
	the software.
	A category needs to be edited.
Post-conditions	A product is edited
Flow of activities	Admin

	 A product needs to be added. Admin clicks on the add product button. After clicking on the add product button, admin is redirected to the add product page. Then admin can add product details.
Exception conditions	1. Wrong product details added to the system.

Manage Product:

Manage Product		
Admin can product.		
A product needs to be edited to the software.		
For business purpose a product needs to be added to the software.		
Admin		
Admin		
Admin must be authorized and logged in to		
the software.		
A product needs to be edited.		
A product is edited		
Admin		
 A category needs to be edited. Admin clicks on the edit button. After clicking on the edit button, admin is redirected to the edit category page. Then admin can edit category details. 		

Exception conditions	1. Category is Edited with wi	rong

Able to see Products:

Use case name	Able to see Products			
Scenario	Customers can be able to see			
	products.			
Triggering Event	Customers want to see Gayerhat			
	product on the website.			
Brief Description	Customers want to see Gayerhat			
	product on the website. Therefore			
	customers go to Gayerhat website			
	and see different products.			
Actors	Admin			
Related Use Case				
Stakeholders	Customer, Gayerhat			
Pre-conditions	Customer must type valid Gayerhat			
	website on browser address bar.			
Post-conditions	Gayerhat website on valid page.			
Flow of activities	Customer			
	1. Customer types valid			
	Gayerhat URL on address			
	bar.			
	2. Gayerhat website			
	appears with Gayerhat			
	products.			
Exception conditions	1.Customer types wrong url.			
	2.WrongGayerhat website appears.			

see product details:

Use case name	see product details
Scenario	Customer go to Gayerhaturl and see
	Gayerhat products.
Triggering Event	Customer wants to see Gayerhat products.
Brief Description	Customer wants to see Gayerhat products and types Gayerhaturl on the browser's
	address bar.
Actors	Customers
Related Use Case	~
Stakeholders	Customers
Pre-conditions	Customer types valid url on browsers address bar.
Post-conditions	Customers see valid Gayerhat webpage and products.
Flow of activities	Customer
	 1.Customer wants to see Gayerhat products. 2.Customers type valid Gayerhaturl on the browser address. 3.Gayerhat website appears with various products. 4.Within various products customer clicks on the 'Product details' button. 5.Then customer is redirected to the 'Product details' page.
Exception conditions	 Customer types invalid url Customer does not able see valid Gayerhat products.

Able to add to cart:

Use case name	Add to cart
Scenario	Desired product customer wants to buy and
	Click on "add to cart" button.
Triggering Event	Customer wants to buy desired product.
Brief Description	Customer wants to buy desired product and
	click on the "Add to cart" button.
Actors	Customer
Related Use Case	
Stakeholders	Customer, company
Pre-conditions	Customer must go to product details page.
Post-conditions	Customer added to cart successfully
Flow of activities	Customer
	1.In the "product details" page,
	after selecting the desired product.
	2.Customer able to add to cart the
	product that they want to buy.
Exception conditions	1.Customer don't able to 'add to cart' the
	product that they want to buy.

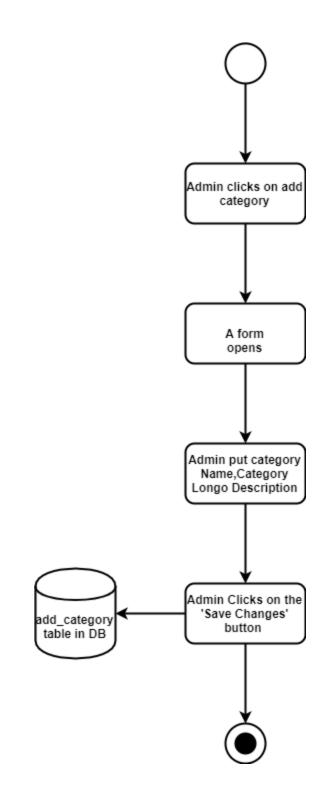
Able to checkout:

Use case name	Able to checkout
Scenario	Customer able to checkout after selecting
	the product, they want to buy.
Triggering Event	Customer wants to buy product.
Brief Description	Customer wants to buy product and they
	add to cart the product
Actors	Customer
Related Use Case	
Stakeholders	Customer, Company

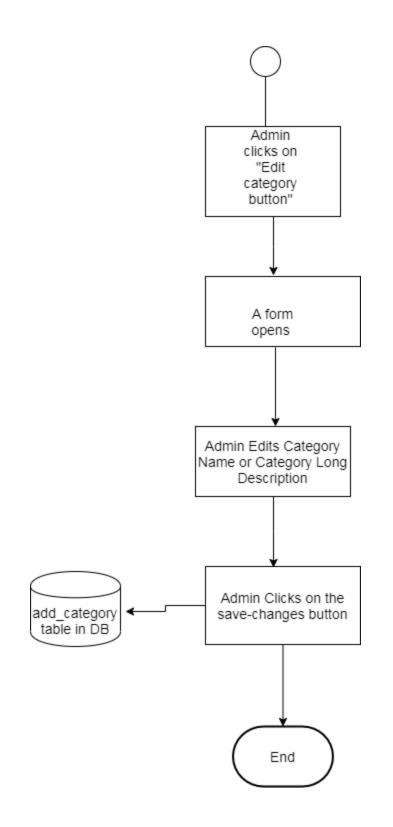
Pre-conditions	Customer should add to cart product that
	they want to buy.
Post-conditions	After added to cart customer must be able
	to see what product they want to checkout.
Flow of activities	Customer
	1. Customer clicks on the add to cart button on the 'product details' page and then redirected to the 'checkout' page.
	2. Then customer clicks the 'checkout' button and customer checks out.
Exception conditions	1. The product customer wants buy is not
	coming on the 'add to cart' page.

3.3Activity Diagram (for each use case)

<u>Add Category:</u> ©Daffodil International University 20

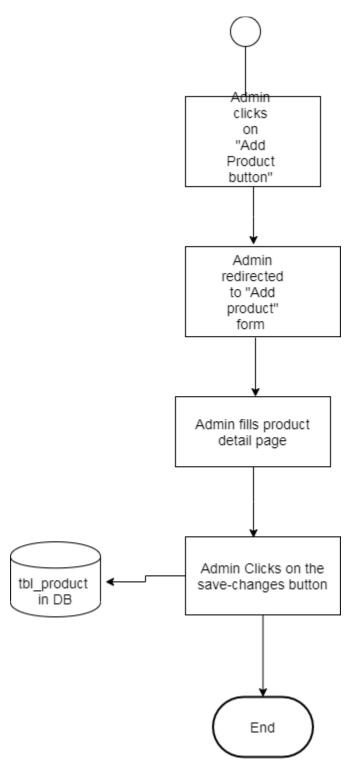


Manage Category:



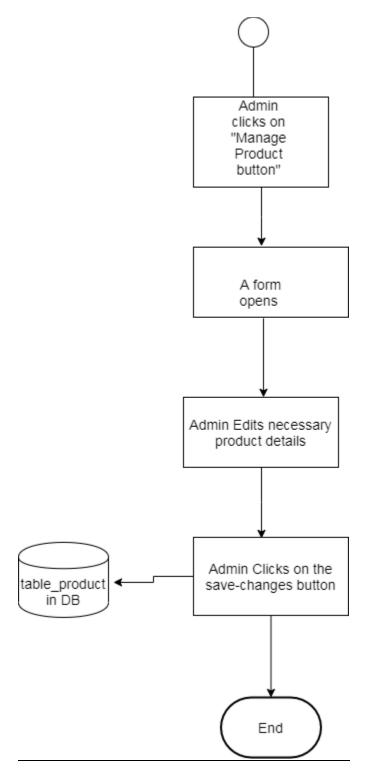
©Daffodil International University 22

Add Product:



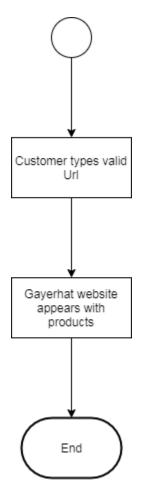
©Daffodil International University 23

Edit Product:

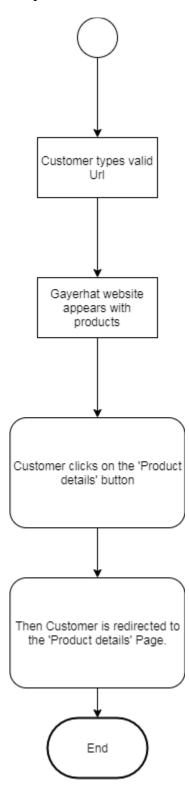


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See Product:

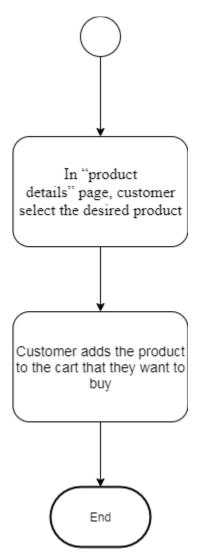


see product details:

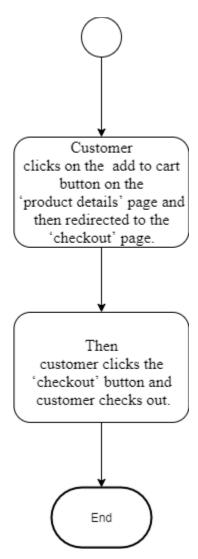


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add to cart:

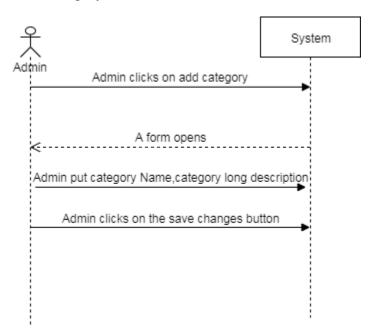


Checkout:

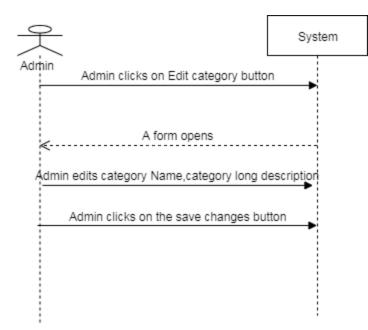


3.4System Sequence Diagram (for each use case)

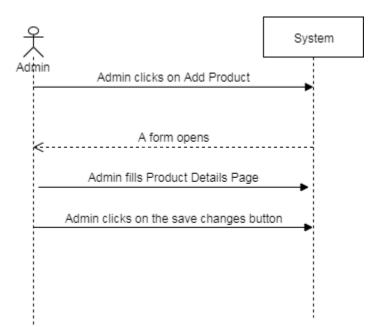
1.Add category:



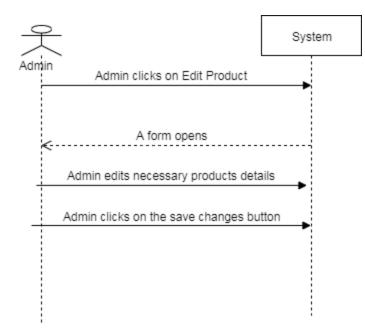
Manage Category: ©Daffodil International University 29



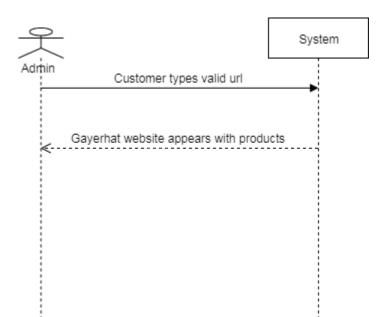
Add Product:



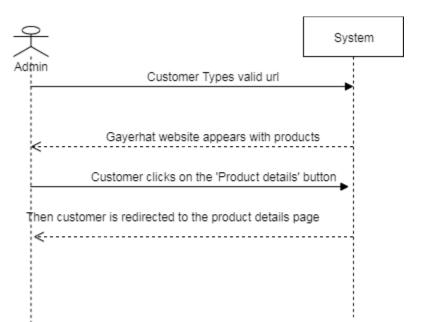
Manage Product:



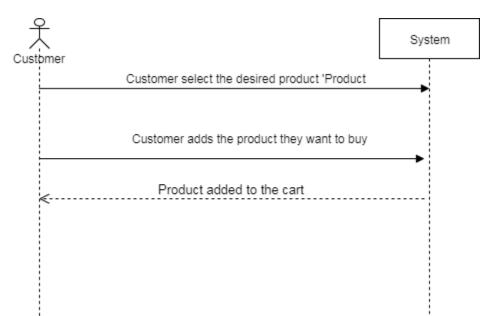
See all Products:



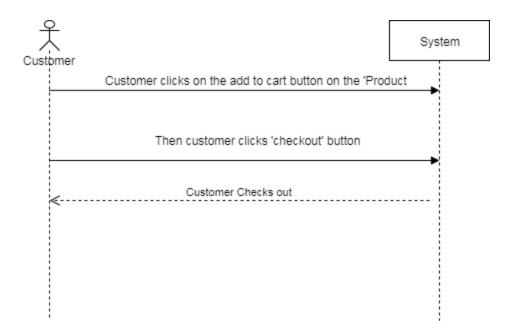
See product details:



Add to cart:



Able to check out:



Chapter 4: System Design Specification

4.1Class Responsibilities Collaboration (CRC) Cards

Admin		
Show dashboard	Admin_model	
Admin_login		
check_admin_login	Admin_model	
check_admin_logout		
admin_login_check		
Cart		
add_to_cart	Cart_model	
show_cart		

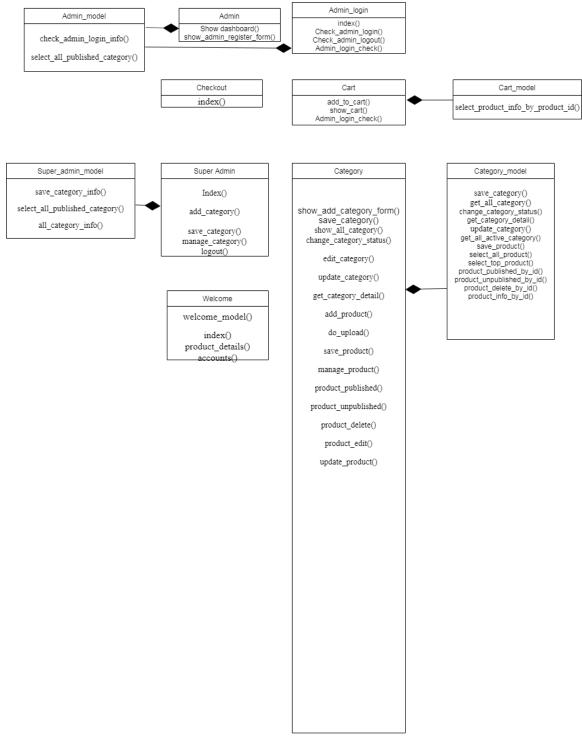
Category		
show_add_category_form	Category_model	
save_category		
show_all_category		
change_category_status		
edit_category		
update_category		
get_category_detail		
add_product		
do_upload		
save_product		
manage_product		
product_published		
product_unpublished		
product_delete		
product_edit		
update_product		

Checkout		
	index	Admin_model
Admin		
	Show dashboard	Admin_model

Super_admin Index	super_admin_model
add_category	
save_category	
manage_category	
logout	

Welcome		
	welcome_model	Welcome_model
	index	
	product_details	
	accounts	

4.2 Class Diagram



4.4Database Design Diagram

🔽 💿 gayerhat tbl_category
category_id : int(11)
category_name : varchar(11)
category_short_desc : varchar(11)
category_long_desc : varchar(11)
category_status : varchar(15)

gayerhat tbl_product
 product_id : int(11)
 product_name : varchar(255)
 product_price : float(10,2)
 product_short_desc : varchar(255)
 product_long_desc : text
 category_id : text
 product_qty : int(5)
 product_image : text
 top_product : tinyint(1)
 product_status : tinyint(3)

admin_id : int(2)
admin_name : varchar(50)
email_address : varchar(100)
password : varchar(32)
activision_status : tinyint(4)
gayerhat ci_sessions
<pre>gajonarei_ocoordina</pre>
ip address : varchar(16)
 user agent : varchar(10)
last_activity : int(10) unsigned
 user_data : text

4.5Development Tools & Technology

4.5.1User Interface Technology

HTML,CSS,Bootstrap,jQuery UI

Twitter Bootstrap

Font Awesome

4.5.2 Implementation Tools & Platforms PHP and Codeigniter Framework

Netbeans IDE

phpmysql

Apache HTTP Server

Chapter 5: System Testing

System Testing is a degree of programming testing where a total and incorporated programming is tried. The reason for this test is to assess the framework's consistence with the predefined prerequisites. This is planned for distinguishing and adjusting mistake. The real targets of this action are to guarantee that the procedure done by the application is right. The test points in compelling and deliberate testing of the system.

5.1Testing Features

5.1.1Features to be tested

- Login
- Add category
- Manage category
- Add product
- Manage product
- See products
- See product Details
- Add to cart
- Checkout

5.1.2Test Approach

Gayerhatcompany itself will test the software according to their need.

5.1.3Pass/Fail Criteria

Pass:

1. Customer able to successfully checkout

Fail:

2.Customer not able to checkout

5.3Testing Environment (hardware/software requirements)

Testing should be done in live server in Gayerhat live server.

Chapter 6: User Manual

6.1User Manual (Admin user)

For Admin:

1.Admin Login

	A O
Login to your account	
L type username	
type password	
Remember me	Login
Forgot Password?	
No problem, click here to get a n	ew password.

2.Admin add category

Metro								▲	91	X	۶	1 Rais	ul -	
III Dashboard														
⊠Register admin	G	Form Elements Category Name										F	^ X	
Add Category														
Manage Category		Category Short Description												
Add product		Category Long Description		∐ abe X, X' ≡		目律律								
Manage product														
Ul Features														
🚯 Widgets														
Dropdown 3														
C Forms														
Charts			Save cha	anges Can	cel									
${f A}$ Typography														
Callery	9	D 🔣 🔅			14					-	•	P• (#		1:11 PM 2/2/2019

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3.Admin manage category

Metro				∆ ≅ ≍ ≯	💄 Raisul 👻
) Dashboard	• Marchan				
Register admin	Members	T			F ^ X
d Category		records per page	Search:		
nage Category	Category ID	Category Name	Category Name	Actions	
d product				¢ ¢ îi	
	1	Ghee	Active	⊘ ⊘ 💼	
anage product	2	ddd	Deleted	🔥 🕑 🏛	
UI Features	Showing 1 to 3 of 3 entries				
Widgets	← Previous 1	Nevt			
] Dropdown 3	C HOROD I				
Forms					
Charts					
Typography					
Ihost/GayerHat/index.php/Categor	v/index.html				

3.Admin adds products

Metro				A 2	X	¥	L Raisul 👻
III Dashboard							
⊠Register admin	🖒 Form Elements						7 ^ X
Add Category	Product Name						
Manage Category	Product Price						
Add product	Product Quantity						
		abe x, x' T- TF- HI- Tg 🏷					
Manage product			M				
Ul Features							
Widgets							
Dropdown 3							
G Forms							
🗐 Charts	Product Category Select C	tegory •					
${f A}$ Typography	Product Image No file sel	cted Choose File					
	Top product						

4.Admin edits products

	🕫 Form Elements		У ^ X
	Product Name	chanachur	
	Product Price	70.00	
	Product Quantity	10	
	Product Long Description	B I U who X, X [*] T. T. H. T ₂ T ₂ I i i i i i i i i i i i i i i i i i i	
	Product Category	v	
	Product Image	No file selected Choose File	
pro	oduct_edit/widgets.html		

6.2User Manual (For Customer)

For Customer:

1.Customer explore products

E-SHOPP gheeee Get it now		ONLY \$99.00	>
CATEGORY		FEATURES ITEMS	
GHEE PRICE RANGE			
\$ 0 \$ 600	BDT 400.00	BDT 400.00	
	Add to wishlist Add to compare	Add to wishlist 🛛 Add to compare	

2.Customer explores product details

Home Shop ~ Blog ~ 404	4 Contact	Search Q
CATEGORY CHANACHUR GHEE		gheeee BDT 400.00 gheeee Quantity:
S 0 S 600		Availability: In Stock Condition: New
Free Shipping		

3.Customer adds to cart

CATEGORY	me Shopping Cart			
CHANACHUR GHEE				
OTEL				
PRICE RANGE	gheeee	BDT 400.00	+ 40 -	BDT 16000
\$ 0 \$ 600	Colorblock Scuba Web ID: 1089772	\$59	+ 1 -	\$59
	Colorblock Scuba	\$59		\$59
	Web ID: 1089772	209	+ 1 -	QU J
Free Shipping worldwide	Web ID: 1089772	239	+ 1 -	ψυγ
worldwide	Web ID: 1089772	339	+ 1 -	
Free Shipping worldwide Customer Checkout Colorblock S Web ID: 1089772	Scuba \$59	+ 1 -	\$59	×
worldwide Customer Checkout Colorblock S Web ID: 1089772	Scuba \$59			
w o r l d w i d e Customer Checkout Colorblock S Web ID: 1089772	Scuba \$59	+ 1 -		
w o r l d w i d e Customer Checkout Colorblock S Web ID: 1089772	Scuba \$59	+ 1 -		
w o r l d w i d e Customer Checkout Colorblock S Web ID: 1089772 Ant would you like to do next? Nose if you have a discount code or rewal Use Coupon Code Use Gift Voucher	Scuba \$59	+ 1 - imate your delivery cost. Cart Sub Total		× BDT 16000
w o r l d w i d e Customer Checkout Colorblock S Web ID: 1089772 Ant would you like to do next? Nose if you have a discount code or rewal Use Coupon Code	Scuba \$59	+ 1 -		

Chapter 7: Project Summary

7.1Github Link

https://github.com/Raisul1239/Gayerhat

7.2Limitations

Online payments method not included.

7.30bstacles & Achievements

Obstacles:

Online payment method not included

Achievements:

Gayerhat can successfully show their pure product to the entire customer.

7.3Future Scope

Online payment method and more customization will be included

Appendix

A

Acknowledgement

Approval

Η

Hardware

С

Class Diagram

Conclusion

D

Data flow Diagram

Development Tools

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Introduction

Implementation

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Use case Diagrams

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Non-functional Requirements

Т

Testing

Test case

Tools

Е

Executive ©Daffodil International University 51 Summary

Entity Relationship Diagram

S

System description

Software Requirement Specification

Software Development Plan

System Design System

Overview System Software Specification

F

Functional Requirements