



**Daffodil**  
*International*  
**University**

## **OfferHuntBD**

(Location Based Advertisement Circulation System)

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This Project report has been submitted in fulfillment of the requirements for the Degree of Bachelor of Science in Software Engineering.

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## APPROVAL

This Project Title on “OfferHuntBD”, submitted by Md. Ariful Islam (171-35-1817) 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 Bachelor of Science in Software Engineering and approval as to its style and contents.

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## DECLARATION

I hereby declare that I have taken this project under the supervision of **Md. Mushfiqur Rahman, Lecturer, Department of Software Engineering, Daffodil International University (DIU)**. I also declare that this project doesn't have been submitted elsewhere for award of any degree.



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## Acknowledgment

At first I would like to thank almighty Allah. However, I have taken efforts in this project. It would not have been possible without the kind support and help of many persons. I would like to extend my sincere thanks to all of them.

I am really grateful because I managed to complete my project within the time given by Project/Thesis Committee. I also sincerely thank my respected supervisor **Md. Mushfiqur Rahman** for the guidance and encouragement for finishing this project. I am thankful for his inspirations to work harder and for motivating me to be better.

Finally, I would like to thank my parents for keeping me in their prayers and supporting me to be better at every step of the way. Without their love and support I would not be successful.

To sum up, without the help of the mentioned supports, the project would not be possible.

## **Dedication**

I dedicate this project to my respectable Father and Mother, my supervisor, my Honorable teachers who are always dear and near to me. Without their patience, understanding, unsparing support, care, affection and love it was not possible to come up to this place.

## **Abstract**

**OfferHuntBD** (Real Time Location Based Advertisement Circulation System) is an advertising system where general users can see different brand or shop's promotional ads according to their location.

Although the number of other digital marketing services based on information and communication technology has increased, the services of the location based advertisement management are still limited. Although there is a need to receive advertisement services according to the current location of the buyer on a specific platform, its arrangements are currently very short. This system called **OfferHuntBD** will work to solve such problems.

An admin can post all types of promotional ads through this system. An admin can post all types of promotional ads through this system.

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# Chapter 1

## Introduction

**OfferHuntBD** (Real Time Location Based Advertisement Circulation System) is an advertising system where general users can see different brand or shop's promotional ads according to their location. Although the number of other digital marketing services based on information and communication technology has increased, the services of the location based advertisement management are still limited. Although there is a need to receive advertisement services according to the current location of the buyer on a specific platform, its arrangements are currently very short. This system called **OfferHuntBD** will work to solve such problems.

An admin can post all types of promotional ads through this system. An admin can post all types of promotional ads through this system.

### 1.1 Project Overview:

Due to the Covid-19 pandemic, people's life system has become very dependent on online. Online management saves both time and effort at the same time. Everyone likes to buy good quality products at low prices. People are more interested in buying discount products. Such products are usually possible to buy at relatively affordable prices. OfferHuntBD will display the discount products in this platform.

### 1.2 Project Purpose:

This project is intended to make this system will build up new relationships between buyers and sellers.

#### 1.2.1 Background:

**Technical Perspective:** I have been working in a real life project using PHP and MySQL Database.

**Domain Perspective:** I have tried to do something new like Improvement / make-up Examination Maintenance System. This type of system doesn't exist in our university currently.

### 1.2.2 Benefits:

By successful completion of this project, users will be able to-

- i. People can check promotional offer details through online by some clicks according to their location.
- ii. This system will build up new relationships between buyers and sellers
- iii. Sales will increase

### 1.2.3 Goals:

The main goals of this project is to-

- i. Making a User friendly and easy to use interface offerhuntbd.
- ii. Show information about discount product
- iii. Increase the selling of discount product

### 1.3 Stakeholders:

The main stakeholder's are-

- i. Developer
- ii. General User
- iii. Admin

### 1.4 Project Schedule:

#### 1.4.1 Gantt Chart:



**Figure 1.1:** Gantt chart for Location Based Advertisement Circulation System

## Chapter 2

### Software Requirement Specification:

All requirement specification described in this section based on this project requirement.

#### 2.1 Functional Requirements:

<b>FR-01</b>	<b>Registration</b>
Description	Without registration in this system general user will be avail to check the product offer or amount of discount price. Admin must has to complete registration before using this system.
Stakeholders	General User, Admin

<b>FR-02</b>	<b>Log In</b>
Description	Log in not required for General user. General user will be avail to view the product details without any log in requirement. Admin log in required. Without log in admin can't access admin dashboard.
Stakeholders	General User, Admin

<b>FR-03</b>	<b>View Product</b>
Description	General user will be able to view the product details, discount details. Pre log in is not required to view the product list
Stakeholders	General User

<b>FR-04</b>	<b>Upload Product</b>
Description	Registered admin will be able to upload the product with details information.
Stakeholders	Admin

<b>FR-05</b>	<b>Edit Product</b>
Description	Admin will be able to edit any product information which is already uploaded by admin. Admin has to log in to access this option.
Stakeholders	Admin

<b>FR-06</b>	<b>Delete Product</b>
Description	Admin will be able to delete any product which is already uploaded by admin. Admin has to log in to access this option.
Stakeholders	Admin

<b>FR-07</b>	<b>View General List</b>
Description	Registered admin can see the others registered admin list.
Stakeholders	Admin

<b>FR-08</b>	<b>Add Brand Name</b>
Description	Admin can add brand name as per product type. It will easy to customer for searching any product as per brand.
Stakeholders	Admin

<b>FR-09</b>	<b>Add Category Name</b>
Description	Admin can add category name as per product type. It will easy to customer for searching any product as per category.
Stakeholders	Admin

<b>FR-10</b>	<b>Edit Brand Name</b>
Description	Admin will be able to edit any product brand which is already uploaded by admin. Admin has to log in to access this option.
Stakeholders	Admin

<b>FR-11</b>	<b>Edit Category Name</b>
Description	Admin will be able to edit any product category which is already uploaded by admin. Admin has to log in to access this option.
Stakeholders	Admin

## 2.2 Performance Requirements

### 2.2.1 Speed and Latency Requirements:

This system will required to fair speed when a user want to check product information.

<b>PR-01</b>	Page Refresh Rate
Description	While the General User and Admin browsing this system the page data will show within few second.
Stakeholders	General User, Admin

### 2.2.2 Accuracy Requirements:

There are nothing specific accuracy requirements for this system.

### 2.2.3 Capacity Requirements:

The system is able to manage all the information of the General User, Admin.

<b>PR-01</b>	At first the system will contain all the registered General User and Admin.
Description	The information of the General User, Product, Admin will be store in the database.
Stakeholders	General User, Admin

<b>PR-01</b>	This system will contain all the product information.
Description	The information will be store in the database
Stakeholders	General User, Admin

## 2.3 Dependability Requirements:

### 2.3.1 Reliability Requirements:

This is a Location Based Advertisement Circulation System project that's why it will be much sensitive for General User and Admin. The main goal of our project is intended to make this system will build up new relationships between buyers and sellers.

### 2.3.2 Availability Requirements:

Availability is very necessary for this system.

<b>DR-01</b>	This system will be available 24/7
<b>Description</b>	<ol style="list-style-type: none"><li>i. This system must be available 24 hour in a single day 7 day's in a week.</li><li>ii. It has to be update time to time as per demand.</li></ol>
<b>Stakeholders</b>	General User, Admin

### 2.3.3 Robustness and Fault Tolerance Requirements:

<b>DR-01</b>	This will manage over access.
<b>Description</b>	Sometime multiple user can over access to this system. The can be handle multiple user access at a time. The system will ensure 0% crush.
<b>Stakeholders</b>	General User, Admin

### 2.3.4 Safety Critical Requirements:

There are no specific safety critical requirements.



## 2.4 Maintainability and Supportability

### 2.4.1 Maintenance Requirements

<b>MS-01</b>	The system can support to browse this site in 24/7
<b>Description</b>	General user any time can access this site to know about discount product information.
<b>Stakeholders</b>	General User, Admin

### 2.4.2 Supportability Requirements

There aren't specific supportability requirements for this system.

### 2.4.3 Adaptability Requirements

There aren't specific adaptability requirements for this system.

## 2.5 Security Requirements

This system has some security requirements like as -

- i. Username/Email/Password
- ii. Validation
- iii. Authentication and Verification

### 2.5.1 Access Requirements

To get access this system the all module provide validation and authentication process.

<b>SR-01</b>	This system will give security policy according to access requirement
<b>Description</b>	Without registration admin will be not able to access the admin panel. This kind of process will provide security services.
<b>Stakeholders</b>	Admin

## 2.5.2 Integrity Requirements

To protect data all username and password are stored by flowing encrypted method. It's not easy to decrypt the username and password and others essential data.

## 2.5.3 Privacy Requirements

This system has some privacy strategies. Like- Validation process and Authentication process. All data will be store in database. All username and password are stored by flowing encrypted method.

It's hard to decrypt. This procedure will provide users privacy.

<b>SR-02</b>	All keep protected
<b>Description</b>	To protect data all username and password are stored by flowing encrypted method. It's not easy to decrypt the username and password and others essential data
<b>Stakeholders</b>	General User, Admin

## 2.6 Usability and Human Integrity Requirements

### 2.6.1 Ease of Use Requirements

This system is very easy for use and also user friendly.

### 2.6.2 Understand-ability and Politeness Requirements

This system is very easy for understand and also usable for every kind of people.

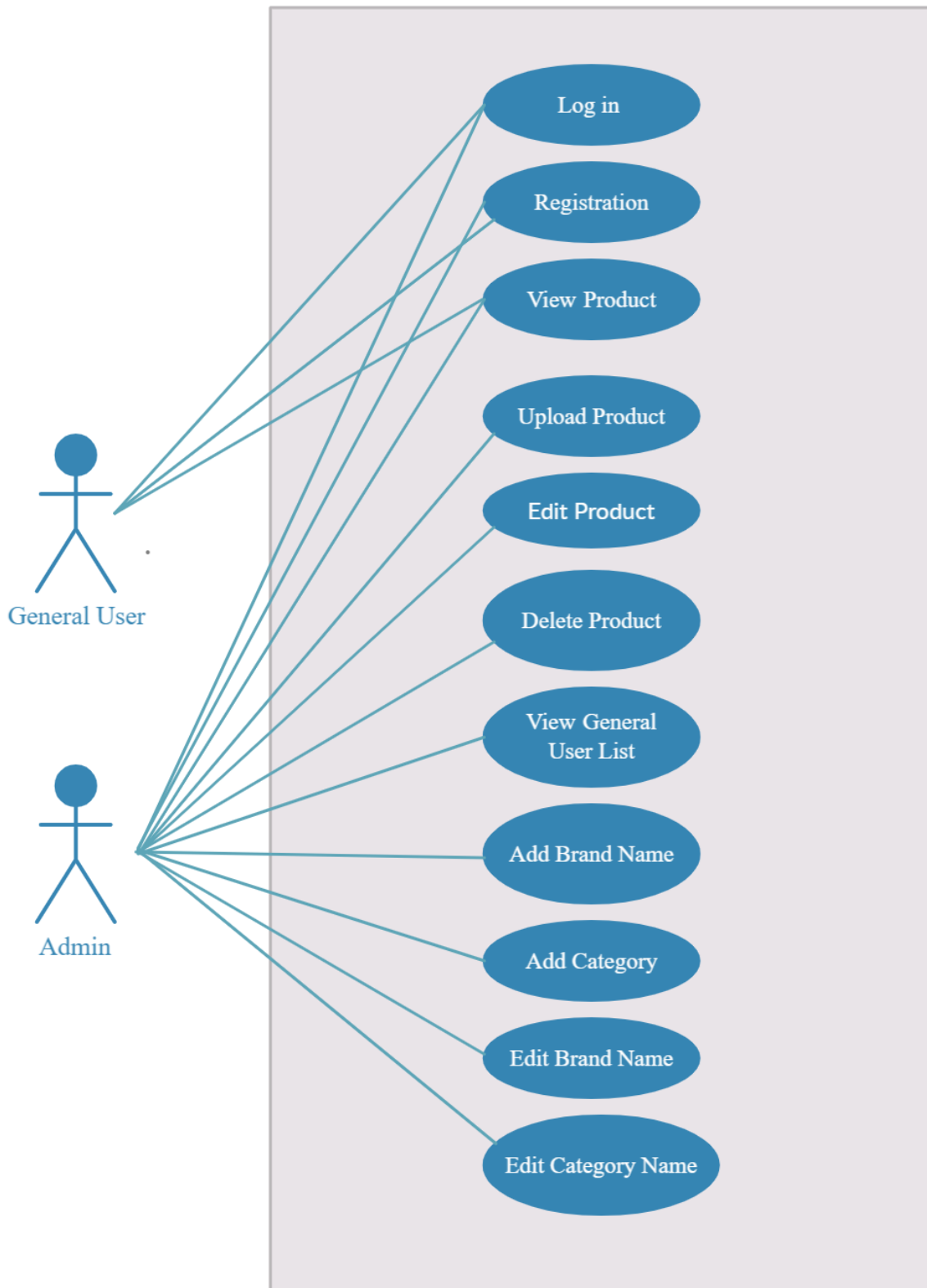
### 2.6.3 Accessibility Requirements

In this system there are no access requirements beside those that have been outlined in the below:

- AR-1: Log in General User
- AR-2: Log in as a Admin
- AR-3: Log out as a General User
- AR-4: Log out as a Admin

## Chapter 3

### 3.1 Use Case Diagram:



**Figure 3.1:** Use case Diagram for Location Based Advertisement Circulation System

### 3.2 Use case Description:

<b>Use Case-01</b>	<b>Log In</b>	
<b>Goal</b>	Admin will be log In this site to upload product information and manage this system.	
<b>Precondition</b>	N/A	
<b>Success End Condition</b>	Registration Successful to access this system.	
<b>Failed End Condition</b>	Can't enter into the system.	
<b>Actors</b>	General User, Admin	
<b>Trigger</b>	Log in to the system	
<b>Description</b>	<b>Step</b>	<b>Action</b>
	1.	Click the Log In Button
	1.1	Enter Username
	1.2	Enter Valid Password
	2.	Click the Log in Button
<b>Alternative Flows</b>	N/A	
<b>Quality Requirement</b>	Don't share valid username and password to unauthorized person.	

<b>Use Case-2</b>	<b>Registration</b>	
<b>Goal</b>	Registration is required to log in this stem	
<b>Precondition</b>	N/A	
<b>Success End Condition</b>	Go to the registration page.	
<b>Failed End Condition</b>	Can't successfully registration the system.	
<b>Actors</b>	General User, Admin	
<b>Trigger</b>	Registration to Log in to the system	
<b>Description</b>	<b>Step</b>	<b>Action</b>
	1.	Click the Registration In Button
	1.1	Enter Information
	2.	Click the Submit in Button
<b>Alternative Flows</b>	N/A	
<b>Quality Requirement</b>	Don't share valid username and password to unauthorized person.	

<b>Use Case-3</b>	<b>View Product</b>	
<b>Goal</b>	Show discount product to the General User	
<b>Precondition</b>	Enter location information.	
<b>Success End Condition</b>	Go to the system page.	
<b>Failed End Condition</b>	Can't view the product information.	
<b>Actors</b>	General User	
<b>Trigger</b>	Visit this site to view this product	
<b>Description</b>	<b>Step</b>	<b>Action</b>
	1.	Go to the System Address
	1.1	Enter Current Location Information
	2.	Click Search Button
<b>Alternative Flows</b>	N/A	
<b>Quality Requirement</b>	N/A	

<b>Use Case-4</b>	<b>Upload Product</b>	
<b>Goal</b>	Upload discount product information to the system.	
<b>Precondition</b>	N/A	
<b>Success End Condition</b>	Product upload successful.	
<b>Failed End Condition</b>	Can't upload product successfully.	
<b>Actors</b>	Admin	
<b>Trigger</b>	Upload Product Information for General user.	
<b>Description</b>	<b>Step</b>	<b>Action</b>
	1.	Go to Admin Dashboard
	2.	Click Upload Option
	2.1	Enter Product Information
	3.	Click Upload Button
<b>Alternative Flows</b>	N/A	
<b>Quality Requirement</b>	N/A	

<b>Use Case-5</b>	<b>Edit Product</b>	
<b>Goal</b>	Edit uploaded product information.	
<b>Precondition</b>	If any correction is required	
<b>Success End Condition</b>	Product Information will be updated.	
<b>Failed End Condition</b>	Product Information will not be updated.	
<b>Actors</b>	Admin	
<b>Trigger</b>	Edit Product Information for General user.	
<b>Description</b>	<b>Step</b>	<b>Action</b>
	1.	Go to Admin Dashboard
	2.	Select Uploaded Product
	2.1	Enter Correct Information
	3.	Click Upload Button
<b>Alternative Flows</b>	N/A	
<b>Quality Requirement</b>	N/A	

<b>Use Case-6</b>	<b>Delete Product</b>	
<b>Goal</b>	Delete unnecessary uploaded product information.	
<b>Precondition</b>	Product information has to be unnecessary.	
<b>Success End Condition</b>	Delete Successful.	
<b>Failed End Condition</b>	Delete Fail.	
<b>Actors</b>	Admin	
<b>Trigger</b>	Delete unnecessary product information for General User confusion.	
<b>Description</b>	<b>Step</b>	<b>Action</b>
	1.	Go to Admin Dashboard
	2.	Select Uploaded Product
	2.1	Click Delete Button
	3.	Confirm Delete
<b>Alternative Flows</b>	N/A	
<b>Quality Requirement</b>	N/A	

<b>Use Case-7</b>	<b>View General User List</b>	
<b>Goal</b>	View General User list to the Admin	
<b>Precondition</b>	General user has to be registered.	
<b>Success End Condition</b>	Show General User list successfully.	
<b>Failed End Condition</b>	Show General User list will not display successfully.	
<b>Actors</b>	Admin	
<b>Trigger</b>	Show General user list.	
<b>Description</b>	<b>Step</b>	<b>Action</b>
	1.	Go to Admin Dashboard
	2.	Select General User Button
	3.	View General User
<b>Alternative Flows</b>	N/A	
<b>Quality Requirement</b>	N/A	

<b>Use Case-8</b>	<b>Add Brand</b>	
<b>Goal</b>	Upload Brand name and information to the system.	
<b>Precondition</b>	N/A	
<b>Success End Condition</b>	Brand name upload successful.	
<b>Failed End Condition</b>	Can't upload brand name successfully.	
<b>Actors</b>	Admin	
<b>Trigger</b>	Upload Brand name and information for General user.	
<b>Description</b>	<b>Step</b>	<b>Action</b>
	1.	Go to Admin Dashboard
	2.	Click Upload Option
	2.1	Enter Brand Information
	3.	Click Upload Button
<b>Alternative Flows</b>	N/A	
<b>Quality Requirement</b>	N/A	

<b>Use Case-9</b>	<b>Add Category</b>	
<b>Goal</b>	Upload Brand name and information to the system.	
<b>Precondition</b>	N/A	
<b>Success End Condition</b>	Brand name upload successful.	
<b>Failed End Condition</b>	Can't upload brand name successfully.	
<b>Actors</b>	Admin	
<b>Trigger</b>	Upload Brand name and information for General user.	
<b>Description</b>	<b>Step</b>	<b>Action</b>
	1.	Go to Admin Dashboard
	2.	Click Upload Option
	2.1	Enter Brand Information
	3.	Click Upload Button
<b>Alternative Flows</b>	N/A	
<b>Quality Requirement</b>	N/A	

<b>Use Case-10</b>	<b>Edit Brand</b>	
<b>Goal</b>	Edit uploaded Brand information.	
<b>Precondition</b>	If any correction is required	
<b>Success End Condition</b>	Brand Information will be updated.	
<b>Failed End Condition</b>	Brand Information will not be updated.	
<b>Actors</b>	Admin	
<b>Trigger</b>	Edit Brand Information for General user.	
<b>Description</b>	<b>Step</b>	<b>Action</b>
	1.	Go to Admin Dashboard
	2.	Select Uploaded Brand
	2.1	Enter Correct Information
	3.	Click Upload Button
<b>Alternative Flows</b>	N/A	
<b>Quality Requirement</b>	N/A	



<b>Use Case-11</b>	<b>Edit Category</b>	
<b>Goal</b>	Edit uploaded category information.	
<b>Precondition</b>	If any correction is required	
<b>Success End Condition</b>	Category Information will be updated.	
<b>Failed End Condition</b>	Category Information will not be updated.	
<b>Actors</b>	Admin	
<b>Trigger</b>	Edit category Information for General user.	
<b>Description</b>	<b>Step</b>	<b>Action</b>
	1.	Go to Admin Dashboard
	2.	Select Uploaded Category
	2.1	Enter Correct Information
	3.	Click Upload Button
<b>Alternative Flows</b>	N/A	
<b>Quality Requirement</b>	N/A	

### 3.3 Activity Diagram:

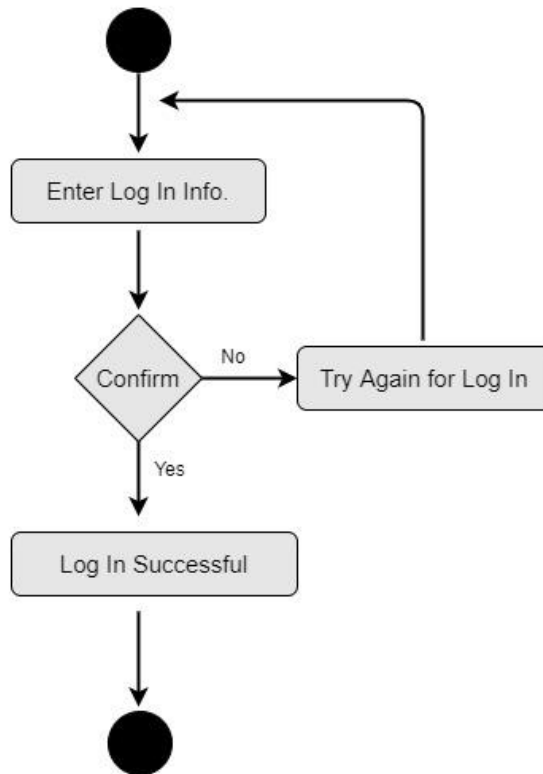


Figure 3.3.1: Activity diagram for Sign In

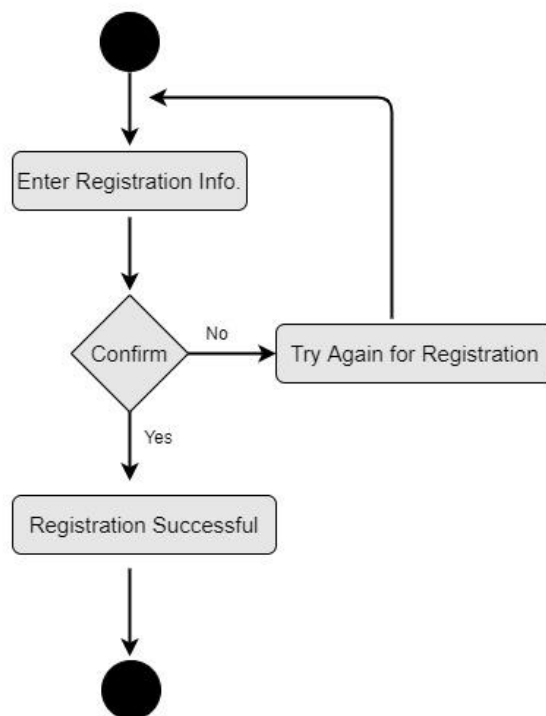
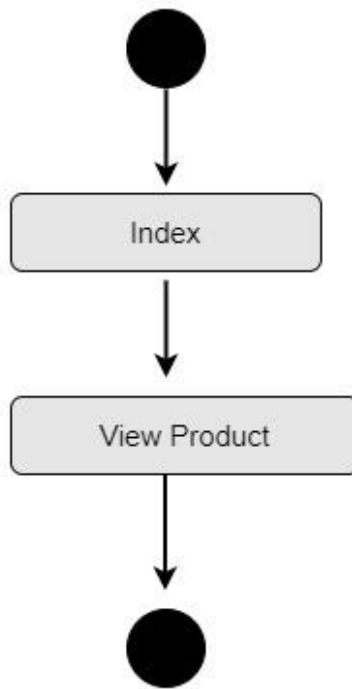
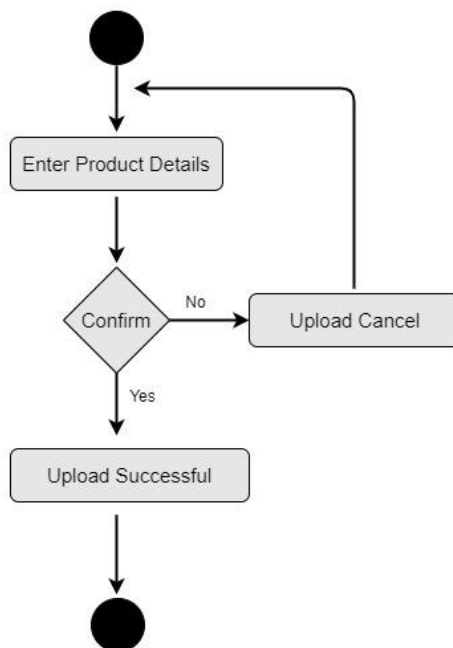


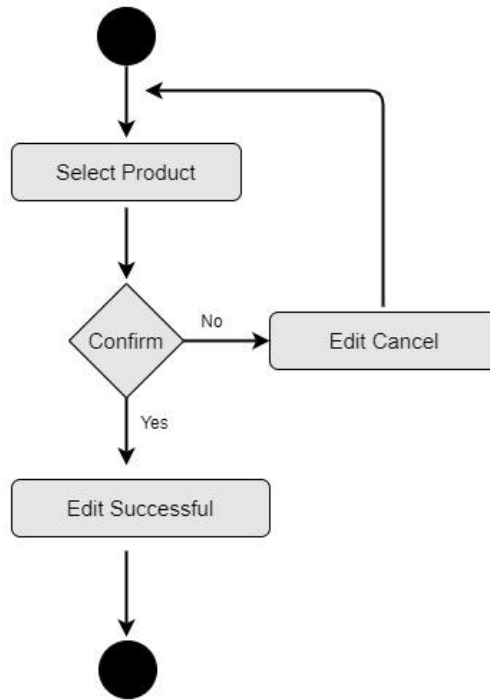
Figure 3.3.2: Activity diagram for Registration



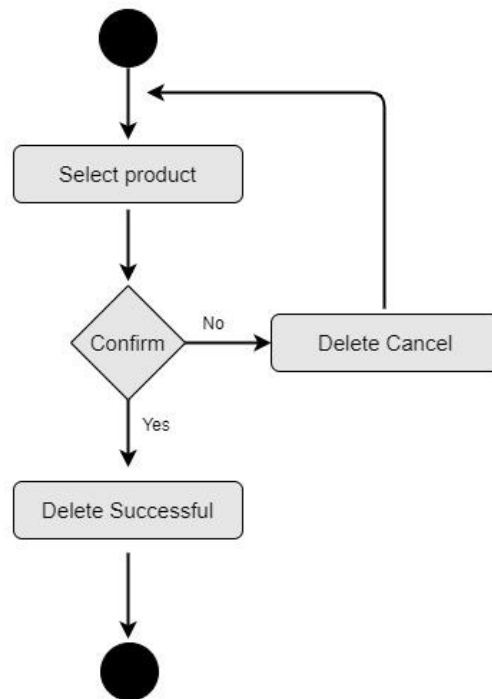
**Figure 3.3.3:** Activity diagram for View Product



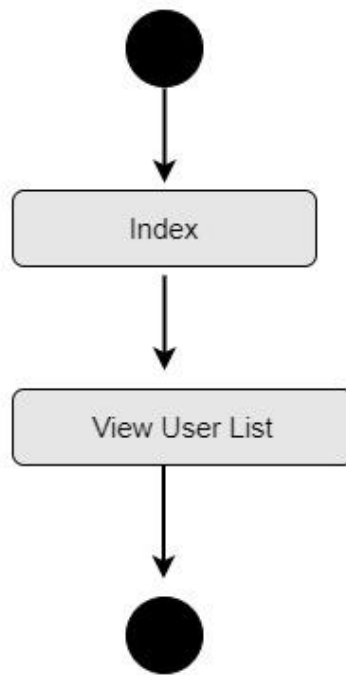
**Figure 3.3.4:** Activity diagram Upload Product



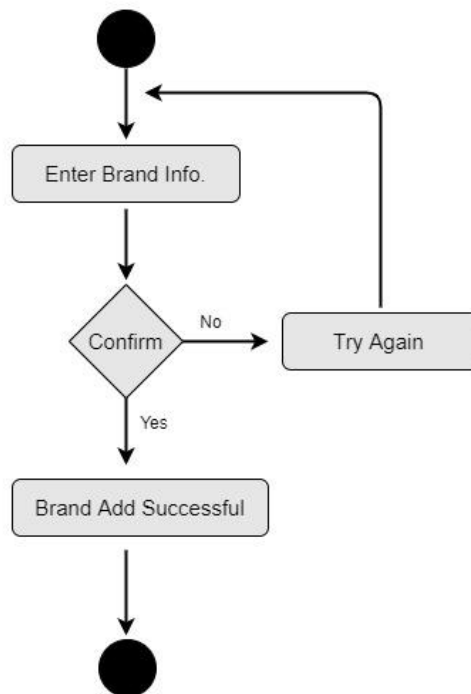
**Figure 3.3.5:** Activity diagram Edit Product



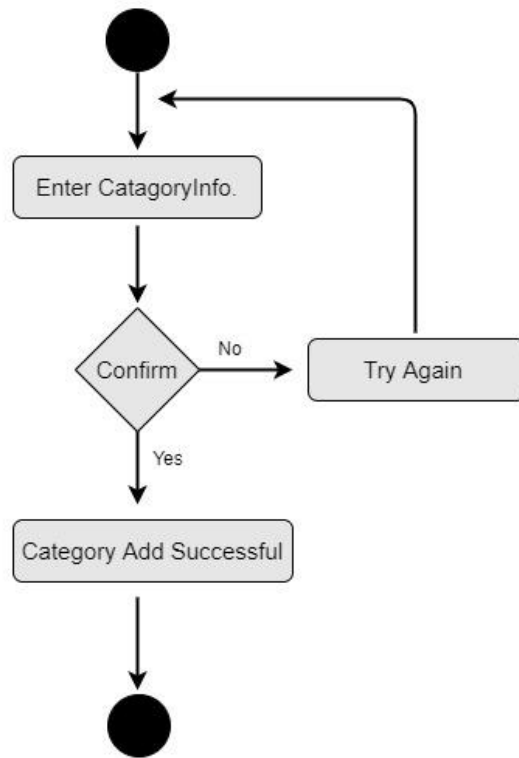
**Figure 3.3.6:** Activity diagram Delete Product



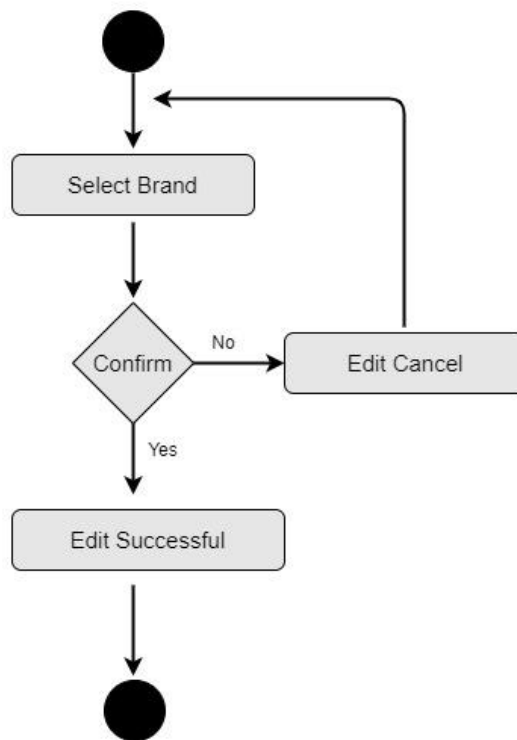
**Figure 3.3.7:** Activity diagram General User List



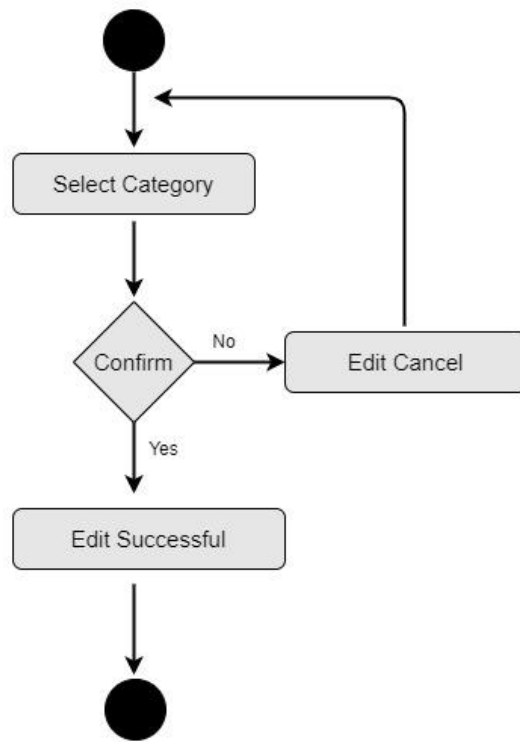
**Figure 3.3.8:** Activity diagram Add Brand Name



**Figure 3.3.9:** Activity diagram Add Category Name

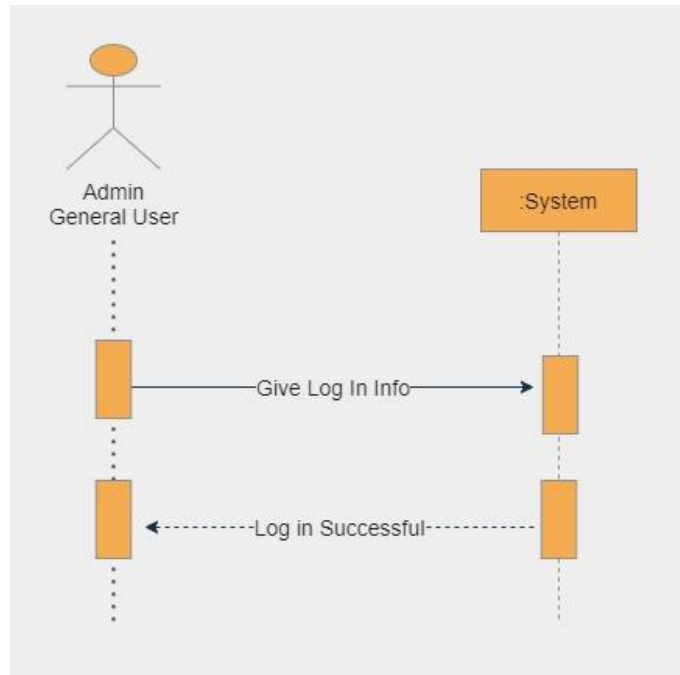


**Figure 3.3.10:** Activity diagram Edit Brand Name

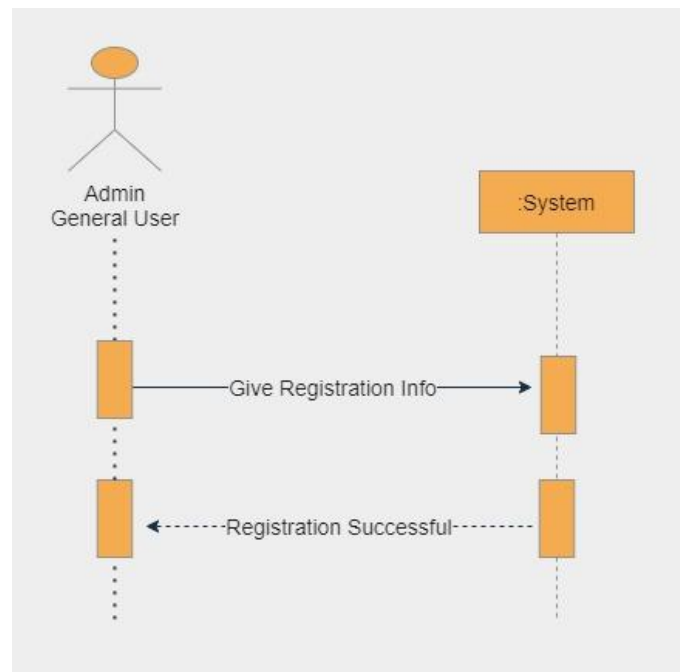


**Figure 3.3.11:** Activity diagram Edit Category Name

### 3.4 System Sequence Diagram:

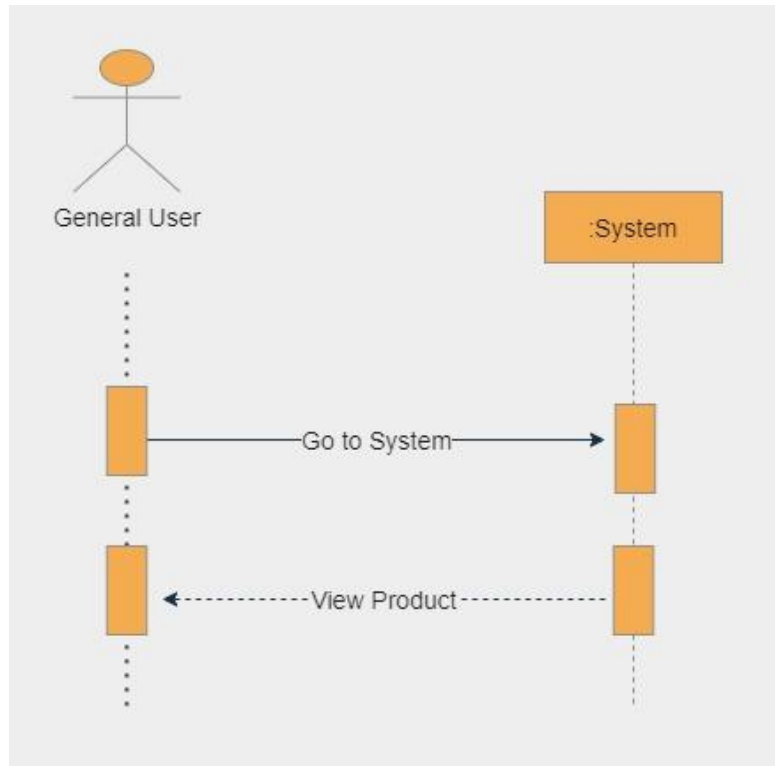


**Figure 3.4.1:** System Sequence Diagram for Log In

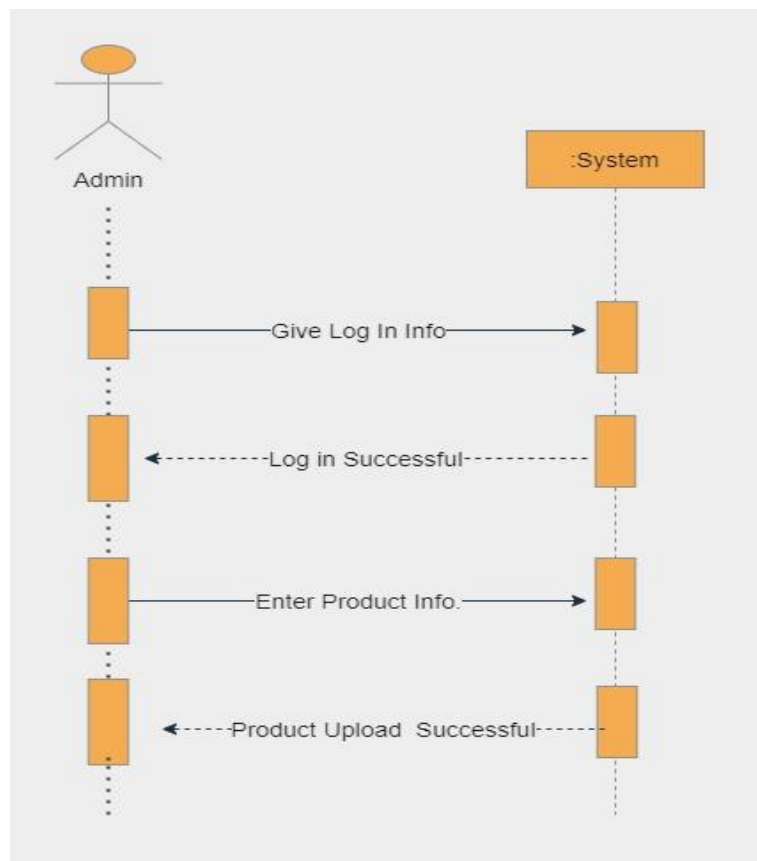


**Figure 3.4.2:** System Sequence Diagram for Registration

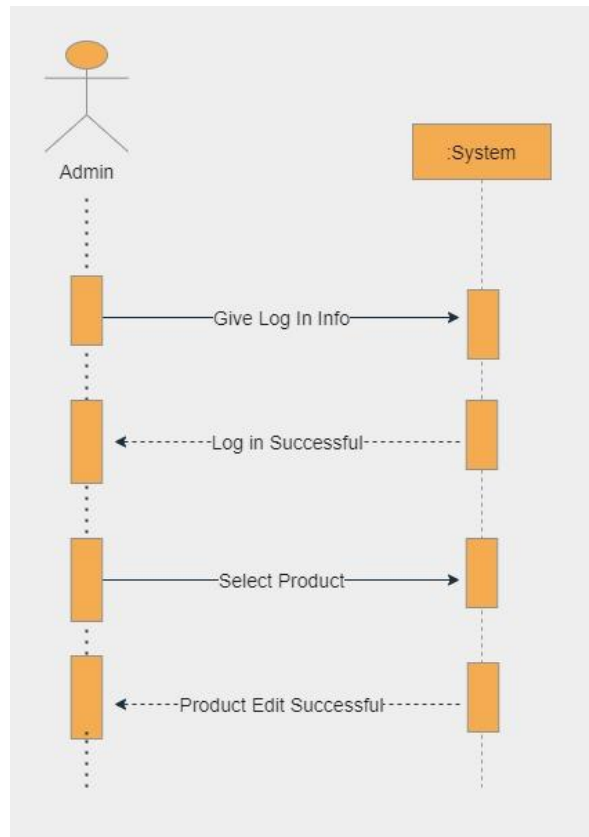




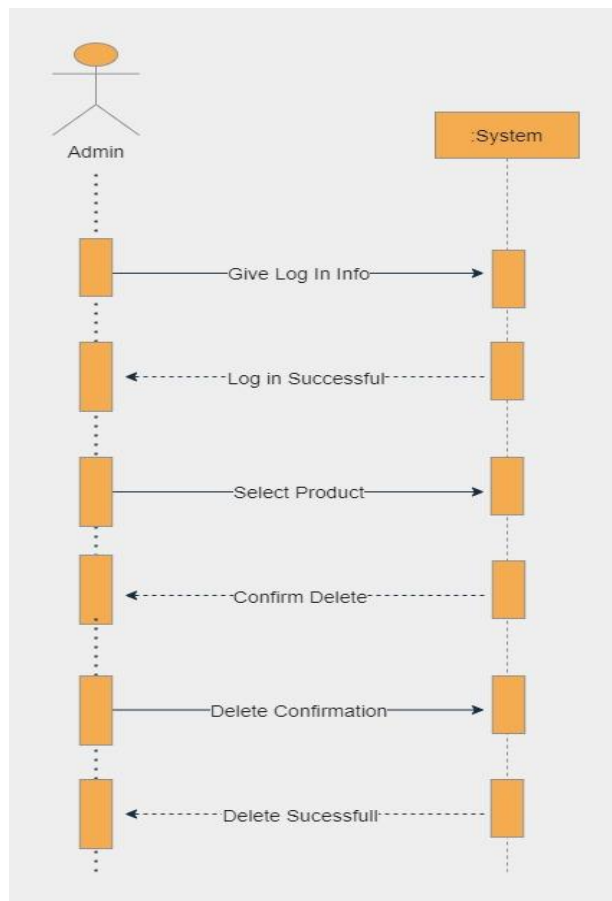
**Figure 3.4.3:** System Sequence Diagram for View Product



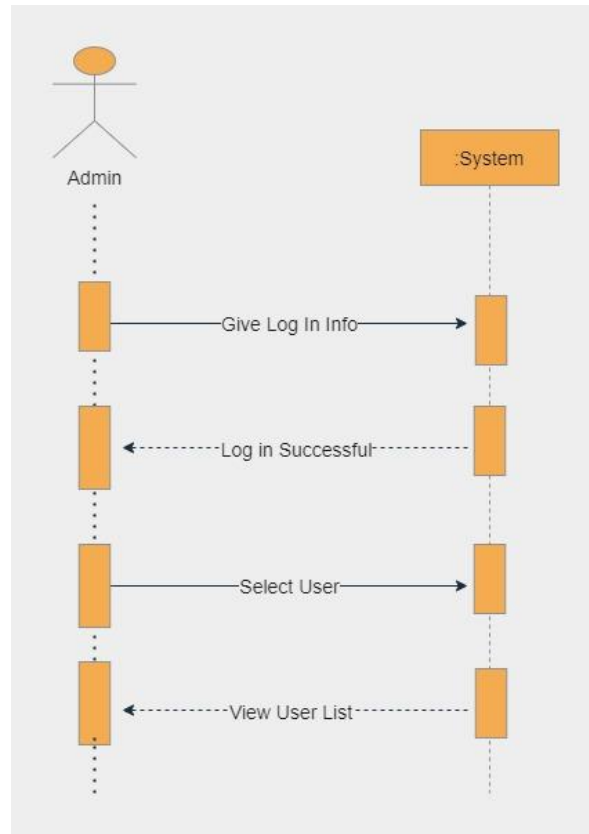
**Figure 3.4.4:** System Sequence Diagram for Upload Product



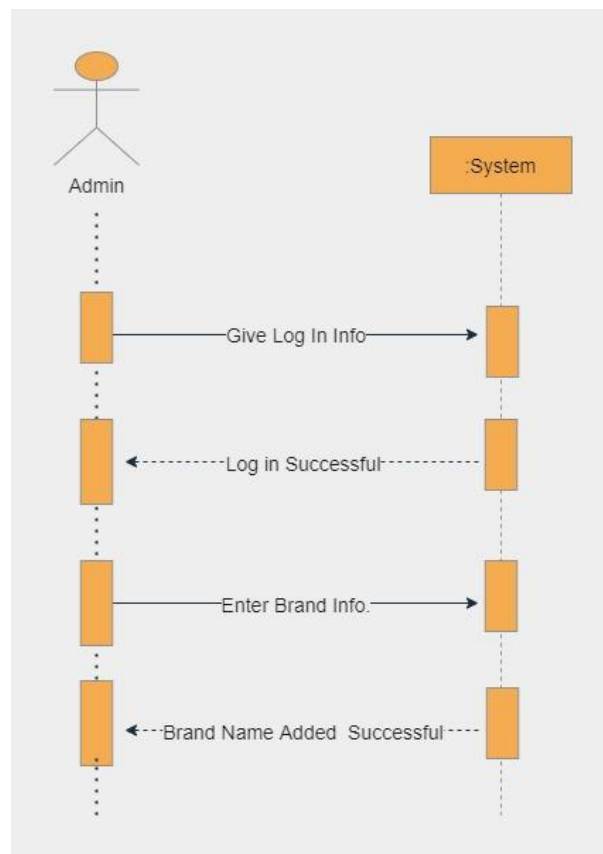
**Figure 3.4.5:** System Sequence Diagram for Edit Product



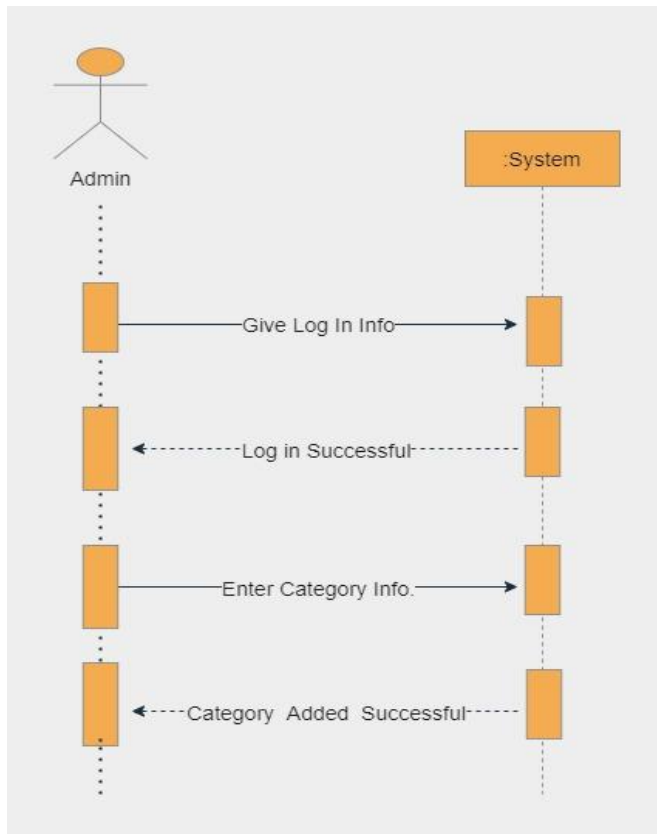
**Figure 3.4.6:** System Sequence Diagram for Delete Product



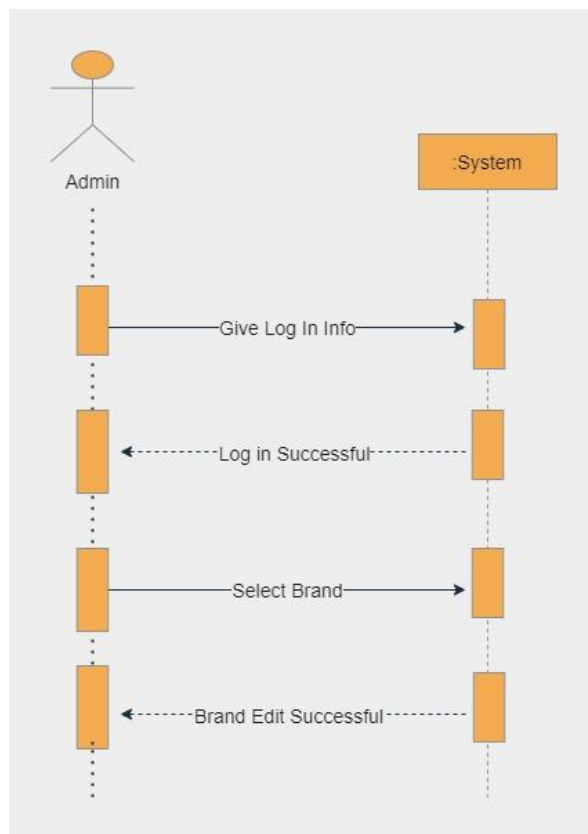
**Figure 3.4.7:** System Sequence Diagram for General User List



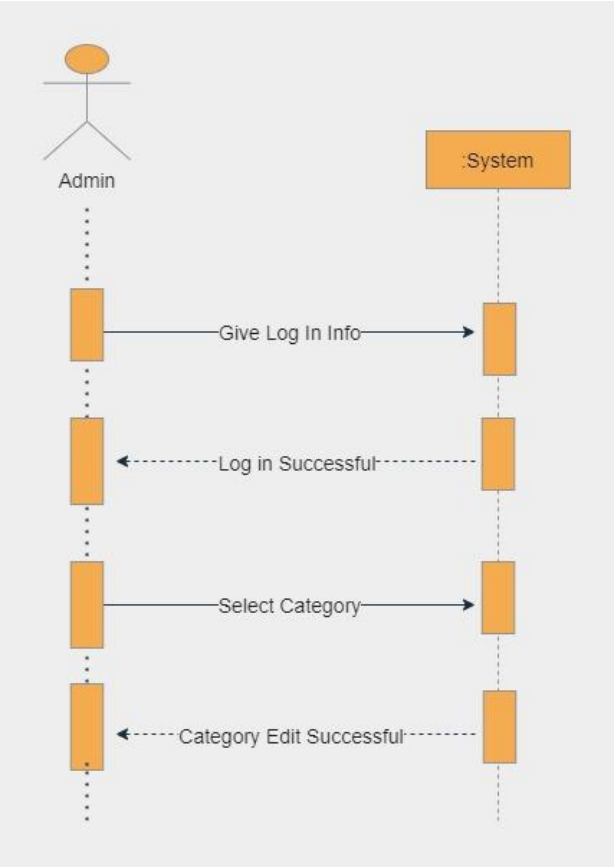
**Figure 3.4.8:** System Sequence Diagram for Add Brand Name



**Figure 3.4.9:** System Sequence Diagram for Add Category Name



**Figure 3.4.10:** System Sequence Diagram for Edit Brand Name

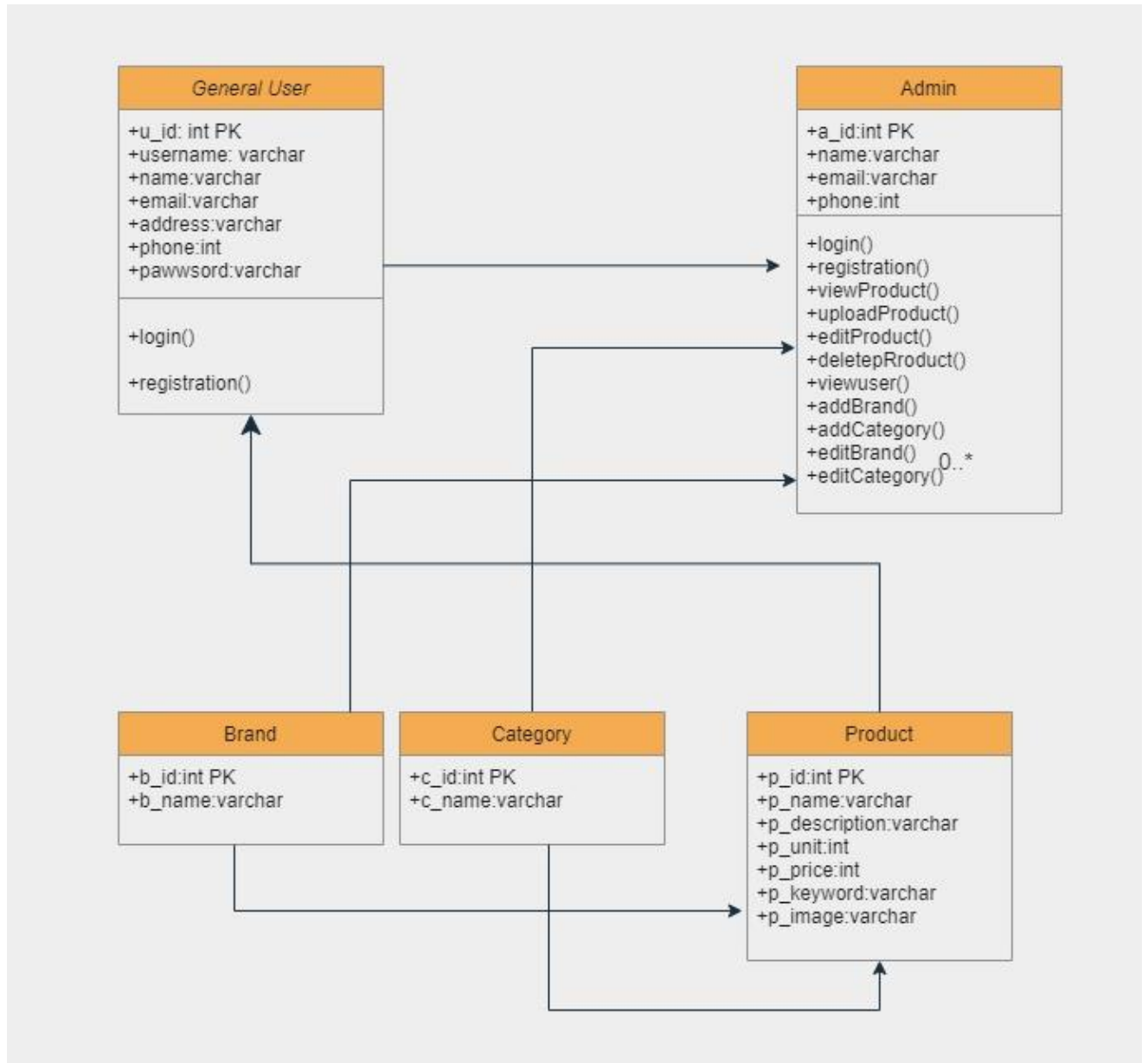


**Figure 3.4.11:** System Sequence Diagram for Edit Category Name

## Chapter 4

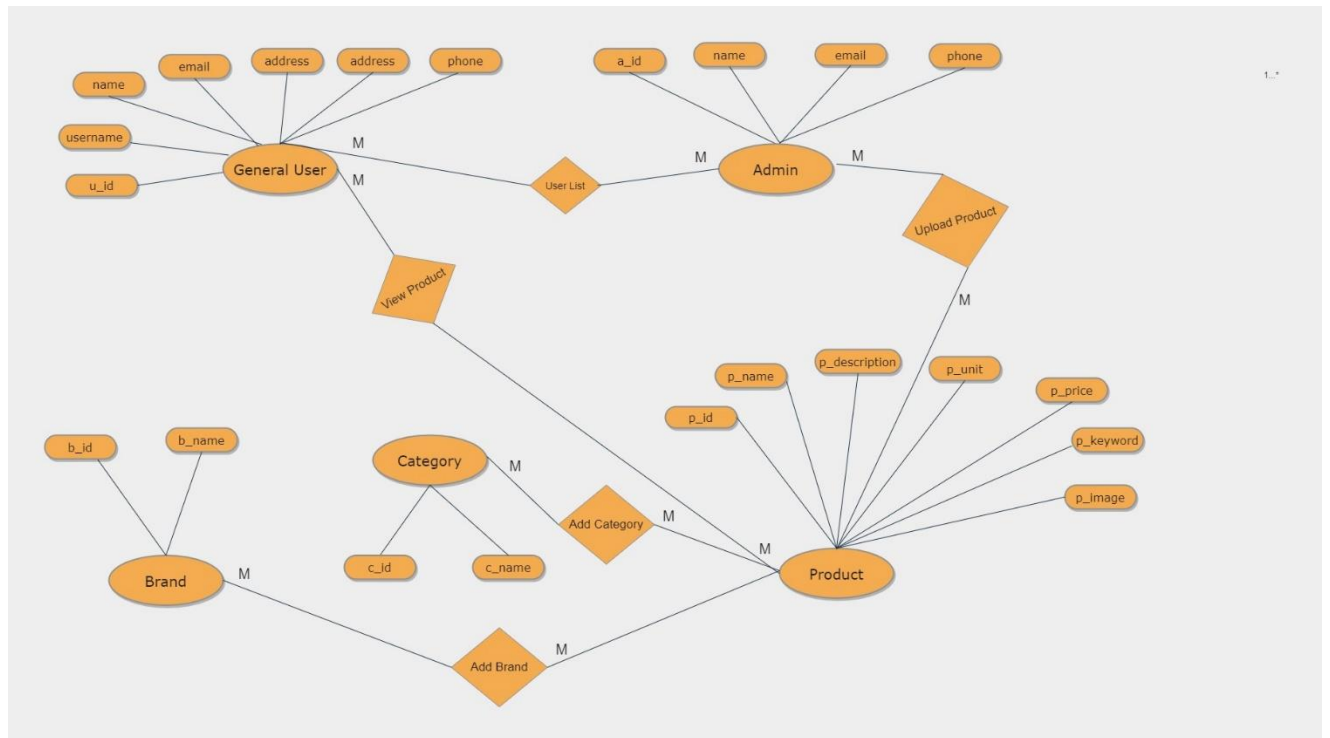
### System Design Specification

#### 4.1 Class Diagram:



**Figure 4.1.1:** Class Diagram for Location Based Advertisement Circulation System

## 4.2 Entity Relationship Diagram:



**Figure 4.4.1:** Entity Relationship Diagram for Location Based Advertisement Circulation System

## **4.3 Development Tools & Technology:**

### **4.3.1 User Interface Technology:**

#### **4.3.1.1 Framework:**

No Framework used

#### **4.3.1.2 Angular JS:**

Use Java Script

#### **4.3.1.3 CSS Framework:**

Use Bootstrap CSS in this project

### **4.3.2 Implementation Tools & Platforms:**

#### **4.3.2.1 Language:**

Use PHP as Language.

#### **4.3.2.2 MySQL Server:**

Use MySQL Server as Database

#### **4.3.2.3 Apache HTTP Server:**

For run this Project use Apache HTTP Server as local server.



## Chapter 5

### System Testing

#### 5.1 Testing Features

**Unit Testing** is a software technique method. Here test the every separate unit of code. I actually used this method after finish the project. I found some error in my system. Then I try to resolve it.

**Acceptance Testing** is used before the system release. When I use this method I actually found some minor error. Then I try to resolve it .After solve the system bug I release it for use.

##### 5.1.1 Features to be tested

- ❖ Log in
- ❖ Registration
- ❖ View Product
- ❖ Upload Product
- ❖ Edit Product
- ❖ Delete Product
- ❖ View General user List
- ❖ Add Brand Name
- ❖ Add Category Name
- ❖ Edit Brand Name
- ❖ Edit Category Name

##### 5.1.2 Features not to be tested

Providing Feedback

#### 5.2 Testing Strategies

##### 5.2.1 Test Approach

Actually, I use some test approach in this section for this project testing purpose.

Test levels  
Test types  
Testing Environment

### 5.2.1.1 Test levels:

I perform to do some common testing levels. Like unit testing, system testing, user acceptance testing, and integration testing. I am carefully performing the testing levels and their method.

### 5.2.1.2 Test types:

Actually I am study about some testing types. In this project I use unit testing, integration testing, system testing and user acceptance testing. I used 50 percent time for unit testing and other 50 percent are used for integration testing purpose, system testing and user acceptance testing.

### 5.2.1.3 Testing Environment:

I have set the required environment using hardware and software for this project.

### 5.2.2 Pass/Fail Criteria

My Project passes all the criteria.

### 5.3 Testing Schedule



Figure 5.1: Testing schedule for Location Based Advertisement Circulation System

## **Chapter 6**

### **Reference**

**No reference is applicable for this project.**

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<p>OfferHuntBD (Location Based Advertisement Circulation System) Submitted By: Md. Ariful Islam ID: 171-35-1817 <a href="#">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 DECLARATION</a> I hereby declare that I have taken this project under the supervision of Md. Mushfiqur Rahman, Lecturer, Department of Software Engineering, Daffodil International University (DIU). I also declare that this project doesn't have been submitted elsewhere for award of any degree.  ..... Md. Ariful Islam ID: 171 -35- 1817 Batch: 22nd Department of Software Engineering Faculty of Science &amp; Information Technology Daffodil International University Certified By: ..... Md. Mushfiqur Rahman Lecturer Department of Software Engineering Faculty of Science &amp; Information Technology Daffodil International University ©Daffodil International University II Acknowledgment At first I would like to thank almighty Allah. However, I have taken efforts in this project. It would not have been possible without the kind support and help of many persons. I would like to extend my sincere thanks to all of them. I am really grateful because I managed to complete my project within the time given by Project/ Thesis Committee. I also sincerely thank my respected supervisor Md. Mushfiqur Rahman for the guidance and encouragement for finishing this project. I am thankful for his inspirations to work harder and for motivating me to be better. Finally, I would like to thank my parents for keeping me in their prayers and supporting me to be better at every step of the away. Without their love and support I would not be successful. To sum up, without the help of the mentioned supports, the project would not be possible. III Dedication I dedicate this project to my respectable Father and Mother, my supervisor, my Honorable teachers who are always dear and near to me.</p>

Without their [patience, understanding, unsparing support](#), care, [affection and love](#) it was [not possible to come up to this](#) place. IV Abstract OfferHuntBD (Real Time Location Based Advertisement Circulation System) is an advertising system where general users can see different brand or shop's promotional ads according to their location. Although the number of other digital marketing services based on information and communication technology has increased, the services of the location based advertisement management are still limited. Although there is a need to receive advertisement services according to the current location of the buyer on a specific platform, its arrangements are currently very short. This system called OfferHuntBD will work to solve such problems. An admin can post all types of promotional ads through this system. An admin can post all types of promotional ads through this system. [©Daffodil International University V TABLE OF CONTENTS CONTENTS PAGE Declaration Acknowledgement Dedication Abstract List of Figures List of Tables II III IV V VIII IX CHAPTER 1: INTRODUCTION 1 1.1 Project Overview 1.1.2 Project Purpose 1 1.2.1 Background 1 1.2.2 Benefits 2 1.2.3 Goals 2 1.3 Stakeholders 2 1.4 Project Schedule 2 1.4.1 Gantt Chart 2 CHAPTER 2: Software Requirement Specification 2.1 Functional Requirement 2.2 Performance Requirement 2.2.1 Speed and Latency Requirements 2.2.2 Accuracy Requirements 2.2.3 Capacity Requirements 2.3 Dependability Requirements 2.3.1 Reliability Requirements 2.3.2 Availability Requirements 2.3.3 Robustness and Fault Tolerance Requirements 2.3.4 Safety Critical Requirements 2.4 Maintainability and Supportability 2.4.1 Maintenance Requirements 2.4.2 Supportability Requirements 2.4.3 Adaptability Requirements 3 3 5 5 5 6 6 6 6 7 7 7 7 ©Daffodil International University VI 2.5 Security Requirements 2.5.1 Access Requirements 2.5.2 Integrity Requirements 2.5.3 Privacy Requirements 2.6 Usability and Human Integrity Requirements 2.6.1 Ease of Use Requirements 2.6.2 Understand-ability and Politeness Requirements 2.6.3 Accessibility Requirements CHAPTER 3: Use Case 3.1 Use Case 3.2 Use Case Description 3.3 Activity Diagram 3.4 System Sequence Diagram CHAPTER 4: System Design and Speciation 4.1 Class Diagram 4.2 Entity Relationship Diagram 4.3 Project Timeline 4.4 Project Risk Management 4.5 Use Case Diagram 4.6 Sequence Diagram 4.7 Activity Diagram 4.8 Database Design 4.9 Class Diagram 4.10 Development Tools And Technology 7 7 7 7 8 8 8 8 9 9 10 16 22 28 28 29 30 30 30 30 30 30 30 ©Daffodil International University V I 4.11 Testing 4.12 User Interface CHAPTER 5: System Testing 5.1 Testing Features 5.2 Testing Strategies 5.3 Testing Schedule 25 26 32 32 32 32 CHAPTER 6: Reference 33 ©Daffodil International University. VII LIST OF FIGURES FIGURES PAGE NO Figure 1.1: Gantt chart Figure 3.1: Use Case Figure 3.3.1: Activity diagram for Sign in Figure 3.3.2: Activity diagram for Registration Figure 3.3.3: Activity diagram for View Product Figure 3.3.4: Activity diagram for Upload Product Figure 3.3.5: Activity diagram for Edit Product Figure 3.3.6: Activity diagram for Delete Product Figure 3.3.7: Activity diagram for User List Figure 3.3.8: Activity diagram for Add Brand Name Figure 3.3.9: Activity diagram for Add Category Name Figure 3.3.10: Activity diagram for Edit Brand Name Figure 3.3.11: Activity diagram for Edit Category Name Figure 3.4.1: System Sequence Diagram for Log In Figure 3.4.2: System Sequence Diagram for Registration Figure 3.4.3: System Sequence Diagram for View Product Figure 3.4.4: System Sequence Diagram for Upload Product Figure 3.4.5: System Sequence Diagram for Edit Product Figure 3.4.6: System Sequence Diagram for Delete Product Figure 3.4.7: System Sequence Diagram for View User List Figure 3.4.8: System Sequence Diagram for Add Brand Name Figure 3.4.9: System Sequence Diagram for Add Category Name Figure 3.4.10: System Sequence Diagram for Edit Brand Name Figure 3.4.11: System Sequence Diagram for Edit Category Figure 4.3: Class diagram Figure 4.4: Entity Relationship Diagram Figure 5.1: Testing schedule 2 9 16 16 17 17 18 18 19 19 20 20 21 22 22 23 23 24 24 25 25 26 26 27 28 29 32 VIII Chapter 1 Introduction OfferHuntBD \(Real Time Location Based Advertisement Circulation System\) is an advertising system where general users can see different brand or shop's promotional ads according to their location. Although the number of other digital marketing services based on information and communication technology has increased, the services of the location based advertisement management are still limited. Although there is a need to receive advertisement services according to the current location of the buyer on a specific platform, its arrangements are currently very short. This system called OfferHuntBD will work to solve such problems. An admin can post all types of promotional ads through this system. An admin can post all types of promotional ads through this system. 1.1 Project Overview: Due to the Covid-19 pandemic, people's life system has become very dependent on online. Online management saves both time and effort at the same time. Everyone likes to buy good quality products at low prices. People are more interested in buying discount products. Such products are usually possible to buy at relatively affordable prices. OfferHuntBD will display the discount products in this platform. 1.2 Project Purpose: This project is intended to make this system will build up new relationships between buyers and sellers. 1.2.1 Background: Technical Perspective: I have been working in a real life project using PHP and MySQL Database.](#)

©Daffodil International University 1 Domain Perspective: I have tried to do something new like Improvement / make-up Examination Maintenance System. This type of system doesn't exist in our university currently. 1.2.2 Benefits: By successful completion of this project, users will be able to- i. People can check promotional offer details through online by some clicks according to their location. ii. This system will build up new relationships between buyers and sellers iii. Sales will increase [1.2.3 Goals: The main goals of this project is to-](#) i. Making a User friendly and easy to use interface offerhuntbd. ii. Show information about discount product iii. Increase the selling of discount product 1.3 Stakeholders: The main stakeholder's are- i. Developer ii. General User iii. Admin [1.4 Project Schedule: 1.4.1 Gantt Chart: Figure 1.1: Gantt chart](#) for Location Based Advertisement Circulation System ©Daffodil International University 2 [Chapter 2 Software Requirement Specification: All requirement specification](#) described in this section based on this project requirement. 2.1 Functional Requirements: FR-01 Registration Description Without registration in this system general user will be avail to check the product offer or amount of discount price. Admin must has to complete registration before using this system. Stakeholders General User, Admin FR-02 Log In Description Log in not required for General user. General user will be avail to view the product details without any log in requirement. Admin log in required. Without log in admin can't access admin dashboard. Stakeholders General User, Admin FR-03 View Product Description General user will be able to view the product details, discount details. Pre log in is not required to view the product list Stakeholders General User FR-04 Upload Product Description Registered admin will be able to upload the product with details information. Stakeholders Admin FR-05 Edit Product Description Admin will be able to edit any product information which is already uploaded by admin. Admin has to log in to access this option. Stakeholders Admin ©Daffodil International University 3 FR-06 Delete Product Description Admin will be able to delete any product which is already uploaded by admin. Admin has to log in to access this option. Stakeholders Admin FR-07 View General List Description Registered admin can see the others registered admin list. Stakeholders Admin FR-08 Add Brand Name Description Admin can add brand name as per product type. It will easy to customer for searching any product as per brand. Stakeholders Admin FR-09 Add Category Name Description Admin can add category name as per product type. It will easy to customer for searching any product as per category. Stakeholders Admin FR-10 Edit Brand Name Description Admin will be able to edit any product brand which is already uploaded by admin. Admin has to log in to access this option. Stakeholders Admin FR-11 Edit Category Name Description Admin will be able to edit any product category which is already uploaded by admin. Admin has to log in to access this option. Stakeholders Admin [2.2 Performance Requirements 2.2.1 Speed and Latency Requirements:](#) This system will required to fair speed when a user want to check product information. PR-01 Page Refresh Rate Description While the General User and Admin browsing this system the page data will show within few second. Stakeholders General User, Admin 2.2.2 Accuracy [Requirements: There are nothing specific accuracy requirements for this system. 2.](#) 2.3 Capacity [Requirements:](#) The system is able to manage all the information of the General User, Admin. PR-01 At first the system will contain all the registered General User and Admin. Description The information of the General User, Product, Admin will be store in the database. Stakeholders General User, Admin PR-01 This system will contain all the product information. Description The information will be store in the database Stakeholders General User, Admin ©Daffodil International University 5 [2.3 Dependability Requirements: 2.3.1 Reliability Requirements:](#) This is a Location Based Advertisement Circulation System project that's why it will be much sensitive for General User and Admin. The main goal of our project is intended to make this system will build up new relationships between buyers and sellers. 2.3.2 Availability Requirements: Availability is very necessary for this system. DR-01 This system will be available 24/7 Description i. ii. This system must be available 24 hour in a single day 7 day's in a week. It has to be update time to time as per demand. Stakeholders General User, Admin 2.3.3 Robustness and Fault Tolerance Requirements: DR-01 This will manage over access. Description Sometime multiple user can over access to this system. The can be handle multiple user access at a time. The system will ensure 0% crush. Stakeholders General User, Admin 2.3 [.4 Safety Critical Requirements: There are no specific safety critical requirements.](#) 2.4 Maintainability and Supportability 2.4.1 Maintenance Requirements MS-01 The system can support to browse this site in 24/7 Description General user any time can access this site to know about discount product information. Stakeholders General User, Admin 2.4.2 Supportability Requirements There aren't specific supportability requirements for this system. 2.4.3 Adaptability Requirements There aren't specific adaptability requirements for this system. 2.5 Security Requirements This system has some security requirements like as - i. Username/Email/Password ii. Validation iii. Authentication and Verification 2.5.1 Access Requirements To get access this system the all module provide validation and authentication process. SR-01 This system will give security policy according to access requirement Description Without registration admin will be not able to access the

admin panel. This kind of process will provide security services. Stakeholders Admin 2.5.2 Integrity Requirements To protect data all username and password are stored by flowing encrypted method. It's not easy to decrypt the username and password and others essential data. 2.5.3 Privacy Requirements This system has some privacy strategies. Like- Validation process and Authentication process. All data will be store in database. All username and password are stored by flowing encrypted method. It's hard to decrypt. This procedure will provide users privacy. SR-02 All keep protected Description To protect data all username and password are stored by flowing encrypted method. It's not easy to decrypt the username and password and others essential data Stakeholders General User, Admin [2.6 Usability and Human Integrity Requirements 2.6.1 Ease of Use Requirements](#) This system is very easy for use and also user friendly. 2.6.2 Understand-ability and Politeness Requirements This system is very easy for understand and also usable for every kind of people. 2.6.3 Accessibility [Requirements In this system there are no access requirements](#) beside those that have been outlined in the below: AR-1: Log in General User AR-2: Log in as a Admin AR-3: Log out as a General User AR-4: Log out as a Admin ©Daffodil International University 8 Chapter 3 [3.1 Use Case Diagram: Figure 3.1: Use case Diagram for Location Based Advertisement Circulation System](#) 3.2 Use case Description: Use Case-01 Log In Goal Admin will be log In this site to upload product information and manage this system. Precondition N/A Success End Condition Registration Successful to access this system. Failed End Condition Can't enter into the system. Actors General User, Admin Trigger Log in to the system Description Step Action 1. Click the Log In Button [1.1 Enter Username 1.2 Enter Valid Password](#) 2. [Click the Log in Button](#) Alternative Flows N/A Quality Requirement Don't share valid username and password to unauthorized person. Use Case-2 Registration Goal Registration is required to log in this stem Precondition N/A [Success End Condition](#) Go [to the](#) registration page. [Failed End Condition](#) Can't successfully registration the system. Actors General User, Admin Trigger Registration to Log in to the system Description Step Action 1. Click the Registration In Button 1.1 Enter Information 2. Click the Submit in Button Alternative Flows N/A Quality Requirement Don't share valid username and password to unauthorized person. ©Daffodil International University 10 Use Case-3 View Product Goal Show discount product to the General User Precondition Enter location information. [Success End Condition](#) Go [to the](#) system page. [Failed End Condition](#) Can't view the product information. Actors General User Trigger Visit this site to view this product Description Step Action 1. Go to the System Address 1.1 Enter Current Location Information 2. Click Search Button Alternative Flows N/A Quality Requirement N/A Use Case-4 Upload Product Goal Upload discount product information to the system. Precondition N/A Success End Condition Product upload successful. Failed End Condition Can't upload product successfully. Actors Admin Trigger Upload Product Information for General user. Description Step Action 1. Go to Admin Dashboard 2. Click Upload Option 2.1 Enter Product Information 3. Click Upload Button Alternative Flows N/A Quality Requirement N/A ©Daffodil International University 11 Use Case-5 Edit Product Goal Edit uploaded product information. Precondition If any correction is required Success End Condition Product Information will be updated. Failed End Condition Product Information will not be updated. Actors Admin Trigger Edit Product Information for General user. Description Step Action 1. Go to Admin Dashboard 2. Select Uploaded Product 2.1 Enter Correct Information 3. Click Upload Button Alternative Flows N/A Quality Requirement N/A Use Case-6 Delete Product Goal Delete unnecessary uploaded product information. Precondition Product information has to be unnecessary. Success End Condition Delete Successful. Failed End Condition Delete Fail. Actors Admin Trigger Delete unnecessary product information for General User confusion. Description Step Action 1. Go to Admin Dashboard 2. Select Uploaded Product 2.1 Click Delete Button 3. Confirm Delete Alternative Flows N/A Quality Requirement N/A Use Case-7 View General User List Goal View General User list to the Admin Precondition General user has to be registered. Success End Condition Show General User list successfully. Failed End Condition Show General User list will not display successfully. Actors Admin Trigger Show General user list. Description Step Action 1. Go to Admin Dashboard 2. Select General User Button 3. View General User Alternative Flows N/A Quality Requirement N/A Use Case-8 Add Brand Goal Upload Brand name and information to the system. Precondition N/A Success End Condition Brand name upload successful. Failed End Condition Can't upload brand name successfully. Actors Admin Trigger Upload Brand name and information for General user. Description Step Action 1. Go to Admin Dashboard 2. Click Upload Option 2.1 Enter Brand Information 3. Click Upload Button Alternative Flows N/A Quality Requirement N/A ©Daffodil International University 13 Use Case-9 Add Category Goal Upload Brand name and information to the system. Precondition N/A Success End Condition Brand name upload successful. Failed End Condition Can't upload brand name successfully. Actors Admin Trigger Upload Brand name and information for General user. Description Step Action 1. Go to Admin Dashboard 2. Click Upload Option 2.1 Enter Brand Information 3. Click Upload Button Alternative Flows N/A Quality Requirement N/A Use Case-10 Edit Brand Goal Edit uploaded



Brand information. Precondition If any correction is required Success End Condition Brand Information will be updated. Failed End Condition Brand Information will not be updated. Actors Admin Trigger Edit Brand Information for General user. Description Step Action 1. Go to Admin Dashboard 2. Select Uploaded Brand 2.1 Enter Correct Information 3. Click Upload Button Alternative Flows N/A Quality Requirement N/A 14 Use Case-11 Edit Category Goal Edit uploaded category information. Precondition If any correction is required Success End Condition Category Information will be updated. Failed End Condition Category Information will not be updated. Actors Admin Trigger Edit category Information for General user. Description Step Action 1. Go to Admin Dashboard 2. Select Uploaded Category 2.1 Enter Correct Information 3. Click Upload Button Alternative Flows N/A Quality Requirement N/A 15

[3.3 Activity Diagram: Figure 3.3. 1: Activity diagram for Sign In](#) [Figure 3.3. 2: Activity diagram for Registration](#) [@Daffodil International University 16](#) [Figure 3.3.3: Activity diagram for View Product](#) [Figure 3.3.4: Activity diagram Upload Product](#) [@Daffodil International University](#) [Figure 3.3.5: Activity diagram Edit Product](#) [Figure 3.3.6: Activity diagram Delete Product](#) [@Daffodil International University](#) [Figure 3.3.7: Activity diagram General User List](#) [Figure 3.3.8: Activity diagram Add Brand Name](#) [@Daffodil International University 19](#) [Figure 3.3. 9: Activity diagram Add Category Name](#) [Figure 3.3. 10: Activity diagram Edit Brand Name](#) [@Daffodil International University 20](#) [Figure 3.3.11: Activity diagram Edit Category Name](#) [@Daffodil International University 21](#)

[3.4 System Sequence Diagram: Figure 3. 4.1: System Sequence Diagram for Log In](#) [Figure 3. 4.2: System Sequence Diagram for Registration](#) [Figure 3.4.3: System Sequence Diagram for View Product](#) [Figure 3 .4. 4: System Sequence Diagram for Upload Product](#) [Figure 3.4.5: System Sequence Diagram for Edit Product](#) [Figure 3.4.6: System Sequence Diagram for Delete Product](#) [Figure 3.4.7: System Sequence Diagram for General User List](#) [Figure 3.4.8: System Sequence Diagram for Add Brand Name](#) [Figure 3.4.9: System Sequence Diagram for Add Category Name](#) [Figure 3.4.10: System Sequence Diagram for Edit Brand Name](#) [Figure 3.4.11: System Sequence Diagram for Edit Category Name](#)

[Chapter 4 System Design Specification 4.1 Class Diagram: Figure 4.1. 1: Class Diagram for Location Based Advertisement Circulation System](#) [4.2 Entity Relationship Diagram: Figure 4.4.1: Entity Relationship Diagram for Location Based Advertisement Circulation System](#) [4.3 Development Tools & Technology: 4. 3 .1 User Interface Technology: 4.3.1.1 Framework: No Framework used](#) [4.3.1.2 Angular JS: Use Java Script](#) [4.3.1.3 CSS Framework: Use Bootstrap CSS in this project](#) [4.3.2 Implementation Tools & Platforms: 4.3.2.1 Language: Use PHP as Language.](#) [4.3.2.2 MySQL Server: Use MySQL Server as Database](#) [4.3.2.3 Apache HTTP Server: For run this Project use Apache HTTP Server as local server.](#) [@Daffodil International University 30](#)

[Chapter 5 System Testing 5.1 Testing Features](#) Unit Testing is a software technique method. Here test the every separate unit of code. I actually used this method after finish the project. I found some error in my system. Then I try to resolve it. Acceptance Testing is used before the system release. When I use this method I actually found some minor error. Then I try to resolve it .After solve the system bug I release it for use. [5.1.1 Features to be tested](#) ? Log in ? [Registration](#) ? View Product ? Upload Product ? Edit Product ? Delete Product ? View General user List ? Add Brand Name ? Add Category Name ? Edit Brand Name ? Edit Category Name

[5.1.2 Features not to be tested](#) Providing Feedback [5.2 Testing Strategies 5.2.1 Test Approach](#) Actually, I use some test approach in this section for this project testing purpose. Test levels Test types Testing Environment [@Daffodil International University 31](#)

[5.2.1.1 Test levels: I perform to do some common testing levels. Like unit testing, system testing, user acceptance testing, and integration testing. I am carefully performing the testing levels and their method.](#) [5.2.1.2 Test types: Actually I am study about some testing types. In this project I use unit testing, integration testing, system testing and user acceptance testing.](#) I used 50 percent time for unit testing and other 50 percent are used for [integration testing](#) purpose, [system testing and user acceptance testing](#). [5.2.1.3 Testing Environment: I have set the required environment using hardware and software for this project.](#) [5.2.2 Pass/Fail Criteria My Project passes all the criteria.](#) [5.3 Testing Schedule](#) [Figure 5.1: Testing schedule for Location Based Advertisement Circulation System](#) [Chapter 6 Reference](#) No reference is applicable for this project. [@Daffodil International University @Daffodil International University @Daffodil International University @Daffodil International University 4 @Daffodil International University 6 @Daffodil International University 7 @Daffodil International University 9 @Daffodil International University 12 @Daffodil International University @Daffodil International University 17 18 @Daffodil International University 22 @Daffodil International University 23 @Daffodil International University 24 @Daffodil International University 25 @Daffodil International University 26 @Daffodil International University 27 @Daffodil International University 28 @Daffodil International University 29 @Daffodil International University 32](#)