

Software Engineering CSE3001

Project title E-COMMERCE REVIEW SYSTEM

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TABLE OF CONTENTS

Chapter 1	
1. Abstract Objective Project Scope	
Chapter 2	
2. Software Requirements Specifications Introduction	7
Definition, Acronyms, or Abbreviations	7
Overview	8
General Description	
Product Perspective	8
Product Functions	9
User Characteristics	9
General Constraints	9
Assumptions	10
Functional Requirements	10
Non-Functional Requirements	12
Scheduling Charts	
Work Breakdown Structure	12
Gantt Chart	13
Stimuli Response	14-15
Data Dictionary	16
Standard Compliance	16
Chapter 3	
3. System Design	
Structural UML Diagrams	17

UML Class Diagram	18
UML deployment Diagram	18-19
Behavioral UML Diagrams	
UML Activity Diagram	20-21
UML Sequence Diagram	22
UML State Diagram	23
Use case Diagram	
Use Case Diagram	24-25
View Items Use Case	26
Checkout, Payment, Authentication Use Case Diagram	
Data flow diagrams (DFD)	
DFD (level 0)	27
DFD (level 1)	27
DFD (level 2)	28
ER Diagram	28
Chapter 4	
Software Test Plan Test Cases	
5.1.1 Test Case-1	29
5.1.1 Test Case-2	29
5.1.1 Test Case-3	29
5.1.1 Test Case-4	30
5.1.1 Test Case-5	30
5.1.1 Test Case-6.	30

Chapter 5 **Sample Code** Login Header.....31 Place order.....31 Admin Delete Fake Review32 Review Product.....32 Shop.....33 Side Menu.....33 Database.....34 **Chapter 6 Module Interface** Home page Design......35 User Interface Design......35 Online Shopping site:......36 **Process Interface** Review site for The products user purchased:38

Fake Review Elimination Site using Ip address:40

Chapter 7
Result Analysis and Discussions41
Chapter 8
Conclusion
Chapter 9
1. Future Work
2. References

Chapter:1 – **Abstract**

As most of the people require review about a product before spending their money on the product. So, people come across various reviews in the website but these reviews are genuine or fake is not identified by the user. In some review websites some good reviews are added by the product company people itself in order to make product famous this people belong to Social Media Optimization team. They give good reviews for many different products manufactured by their own firm. User will not be able to find out whether the review is genuine or fake. To find out fake review in the website this "Fake Product Review Monitoring and Removal for Genuine Online Product Reviews Using Opinion Mining" system is introduced. This system will find out fake reviews made by the social media optimization team by identifying the IP address. User will login to the system using his user id and password and will view various products and will give review about the product. To find out the review is fake or genuine, system will find out the IP address of the user if the system observes fake review send by the same IP Address many a times it will inform the admin to remove that review from the system. This system uses data mining methodology. This system helps the user to find out correct review of the product.

OBJECTIVE

- User-friendly interface for both the users and the system admin
- A database which will contain the details of the users and the products to be registered
- Admin will add products to the system.
- Admin will delete the review which is fake.
- User once access the system; user can view product and can post review about the product.
- System will track the IP address of the user.
- If the system observes fake review coming from same IP address many a times this IP address will be tracked by the system and will inform the admin to remove this review from the system.

PROJECT SCOPE

The E-Commerce Site Utilizing an Honest Review System will allow any user to create an account to become a customer. The customer, through the process of account creation, will have the option to become a member of the site. The system will allow customers to browse, search, select, and add things to a shopping cart. The system also allows a manager to manage the inventory with full create, retrieve, update and delete functionality with regards to reviews given in the system. It will also allow, on an inventory wide basis, customers and managers to interact.

Chapter:2 - System Analysis (SRS document)

2.1. INTRODUCTION

The Software Requirements Specification is designed to document and describe the agreement between the customer and the developer regarding the specification of the software product requested. Its primary purpose is to provide a clear and descriptive "statement of user requirements" that can be used as a reference in further development of the software system. This document is broken into a number of sections used to logically separate the software requirements into easily referenced parts. This Software Requirements Specification aims to describe the Functionality, External Interfaces, Attributes and Design Constraints imposed on Implementation of the software system described throughout the rest of the document. Throughout the description of the software system, the language and terminology used should be unambiguous and consistent throughout the document.

Definition, Acronyms, or Abbreviations

- **♦ SRS** Software Requirement Specification
- * Reorder Threshold-The numeric value of an item's stock that must be reached before the system will order additional quantities of the item
- ♦ **Session** The time which a User is actively using the system
- ♦ **Shopping Cart** An object that lists a customer's selected Items, their applied promotions and gives them an option to check out
- ♦ Stock-The quantity of any particular item the inventory has on hand
- ♦ Text Box- A user interface element that allows a User to input text to the system
- **♦ Transaction** -The information related to a customer's purchase that is logged **♦ Inventory** An object that holds items available for purchase by the Customer
- **Item-** An individual entity in the inventory which has several descriptive attributes:
- **Manager** A single person that has the ability to create, retrieve, update and delete items in the store. This person cannot simultaneously act as a Customer and Manager.
- **User-**The Pers
 - * GUI- Graphical User Interface
- ❖ Stakeholder- The person who will participate in system Ex. Customer, Administrator, Visitor etc
- **Barcode** A unique identifier assigned to single items Book an instance of an Item that has these additional attributes: Title, Author 3

- **Button** A user interface element that allows a User to click and inform the system to take an action
- **Checkbox** A user interface element that allows a User to inform the system that he/she selected a particular item
- ♦ Checkout-The process a customer goes through to purchase an Item
- Customer- A person that is a user of the system but has created an account
- **Promotion** An item-wide percentage-off price discount applied to a member's shopping cart
- **Reorder**-The system process that automatically orders new stock of an item on who operates the software product.

Overview

This system provides an easy solution for customers to buy the product without going to the shop and also to shop owner to sale the product. This proposed system can be used by any naïve users and it does not require any educational level, experience or technical expertise in computer field but it will be of good use if user has the good knowledge of how to operate a computer.

GENERAL DESCRIPTION

The system application enables vendors to set up online shops, customers to browse through the shops, and a system administrator to approve and reject requests for new shops and maintain lists of shop categories. Also, the developer is designing an online shopping site to manage the items in the shop and also help customers to purchase them online without visiting the shop physically. The online shopping system will use the internet as the sole method for selling goods to its consumers.

Product Perspective

This product aimed toward a reason where with this increasing consumer base, e-commerce sites need a proper check system to allow customers to buy genuine and good products. This helps Customers in utilizing a proper review system that will help them search and find the best products they need.

Product Functions

Providing better product description:

Here Users will be allowed to add better alternatives to the products in their reviews directly. This will allow buyers to find better alternatives to the items they are interested in.

Categorization of users:

There will be ranking and achievements based on the helpfulness which will give the users incentive to further post more reviews about items they have bought.

Review weight system:

Buyers can mention if a review is helpful or not. Reviewers will be given classes according to the helpfulness of each review. The more helpful reviews they post, the higher will be their classes. Their reviews will be placed higher than the reviewers with lower classes.

Direct checkout to payment:

Users can Directly buy an item without the hassle of adding it to cart and checkout to payment gateway.

Wholesale dealings:

It helps in Allowing vendors to take personal or wholesale orders from customers. Thus, Products available for cheap on the site.

Custom made order:

For customized merchandise, order can be placed by the provision of upload of a sample here Products described by user to the seller. And Order processing done by site. Thus, Custom made products are delivered to the users.

User Characteristics

This Ecommerce site utilizing honest review system users is simply anyone that has access to the Internet and a web browser. It is assumed that the user is familiar enough with a computer to operate the browser, keyboard and mouse and is capable of browsing to, from and within simple websites. Users should be familiar with the terms like login, register, order system etc.

General Constraints

→ A full internet connection is required for OSS.

- → Reviews by new users have to be elaborate so that fake users cannot slump down sales of competing products.
- → Our databases will be encrypted using RSA cryptosystems making it more secure than conventional database security systems.

Assumptions

Client:

The user is capable of operating these system's basic functions including but not limited to being able to power on the system, login and open either Internet Explorer or Mozilla Firefox, and navigate the browser to the address of this website.

Provider:

We have assumed that this website will be running on a properly working web server and database system with an Internet connection that allows this system to perform all communications with clients.

Assumptions:

There is no need for anyone to be able to order more than a single copy of a book (or any item) in a single transaction.

FUNCTIONAL REQUIREMENTS

PRIME SORT

Description: Most e-commerce websites suffer from the issue of sorting results in a search. Most ecommerce sites prioritize ratings over quantity. They don't care about the quantity of reviewers but the final rating of the product. As such, the product with 5-star rating from 3 people will be higher on the searched list over a product with 50 reviews and a 4.2-star rating. The product with 50 reviews has more validity as more people have tried it out but still the ratings are prioritized. We plan to tackle this problem. We will implement a search based on the number of reviewers and their reviews to sort the searches.

Input: Reviews from users Processing: The reviews will be sorted according to the number of verified user reviews.

Output: Sorted reviews

BRAND SORT

Description: Leading brands will be based on the votes of reviewers. It will also affect the sorting of the items on the search list. The items from brands with higher number of votes will be on top of the list compared to the brands with lower number of votes.

Input: Famous Brands Processing: Products will be prioritized according to famous brands in the search list.

Output: Sorted products according to fame of brands

BETTER PRODUCT SUGGESTION

Description: Users will be allowed to add better alternatives to the products in their reviews directly. This will allow buyers to find better alternatives to the items they are interested in.

Input: Other better products according to reviews.

Output: Suggestions of products according to reviews.

USER CLASSES

Description: Users will be categorized based on the helpfulness of their reviews. It will later be utilized for the review weight system. There will be ranking and achievements based on the helpfulness which will give the users incentive to further post more reviews about items they have bought.

Input: Number of reviews given by users. Processing: Assigns classes based on number of reviews given by the user.

Output: User reviews powers up users by classes.

REVIEW WEIGHT SYSTEM

Description: Buyers can mention if a review is helpful or not. Reviewers will be given classes according to the helpfulness of each review. The more helpful reviews they post, the higher will be their classes. Their reviews will be placed higher than the reviewers with lower classes.

Input: Users and classes. Processing: Sorts the users based on the user class.

Output: Weight of the users varied based on class.

ONE CLICK CHECKOUT

Description: Directly buy an item without the hassle of adding it to the cart.

Input: User buys item.

Output: Direct checkout to the payment gateway.

REORDER MECHANISM

Description: There are some products which need to be ordered frequently with certain time intervals (e.g.: printer ink, food, soaps, etc.). So, products will have a reorder time for which reminders can be set.

Input: Frequently bought products by users. Processing: Keeps frequently bought items for reordering quickly.

Output: Notification for reordering products.

WHOLESALE DEALINGS

Description: Allowing vendors to take personal or wholesale orders from customers.

Input: Products from wholesalers. Processing: Order quantity should be of a sizeable amount.

Output: Products available for cheap on the site.

CUSTOM MADE ORDER

Description: For customized merchandise, order can be placed by the provision of upload of a sample

Input: Products described by user to the seller. Processing: Order processing done by site.

Output: Custom made product delivered to the user

NON-FUNCTIONAL REQUIREMENTS

ELIMINATION OF FAKE REVIEWS:

Description: Reviews by new users have to be elaborate so that fake users cannot slump down sales of competing products.

Input: All Reviews. Processing: Filtering fake review.

Output: Authentic reviews available.

SECURITY:

Description: Our databases will be encrypted using RSA cryptosystems making it more secure than conventional database security systems.

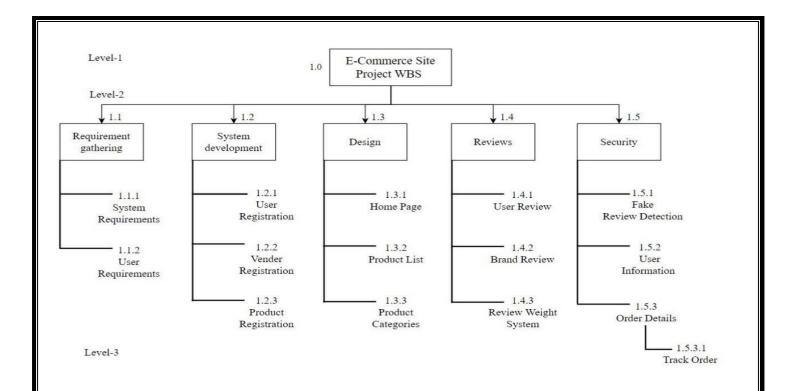
Input: Databases. Processing: Encrypt using RSA cryptosystem.

Output: Encrypted Database.

SCHEDULING CHARTS

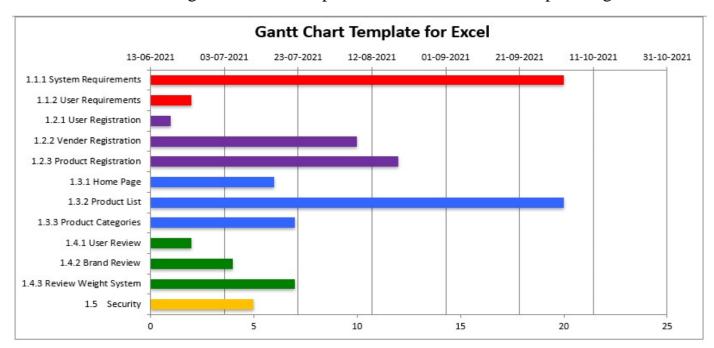
Work Breakdown Structure

A work-breakdown structure (WBS) in project management and systems engineering, is a deliverable-oriented breakdown of a project into smaller components. A work breakdown structure is a key project deliverable that organizes the team's work into manageable sections.



Gantt Chart

A Gantt chart is a project management tool assisting in the planning and scheduling of projects of all sizes, although they are particularly useful for simplifying complex projects. Project management timelines and tasks are converted into a horizontal bar chart, showing start and end dates, as well as dependencies, scheduling and deadlines, including how much of the task is completed per stage and who is the task owner. This is useful to keep tasks on track when there is a large team and multiple stakeholders when the scope changes.



Stimuli response

One click Checkout:

Description: Directly buy an item without the hassle of adding it to cart.

Input: User buys item.

Output: Direct checkout to the payment gateway.

A) User sets up an account and purchase an item.

User action	System actions
User action	System actions
1)Create an account	
	2)Account verification mail is sent
3)Selects a product	
	4)Product availability is checked
	5)Vendor contacted for the product
6)One click Checkout	
	7)Display information regarding the
	purchase of product
8)Confirm purchase	parameter or product
	9)Directed to payment gateway
10)Payment done	
	11)Email sent to the user about order
	delivery

Review Weight System:

Description: Buyers can mention if a review is helpful or not. Reviewers will be given classes according to the helpfulness of each review. The more helpful reviews they post, the higher will be their classes. Their reviews will be placed higher than the reviewers with lower classes.

Input: Users and classes.

Processing: Sorts the users based on the user class. Output: Weight of the users varied based on class.

B) User reviews an item

Oser reviews arritern	
User action	System actions
1)Writes a review	
	2)Shows it to other customers
	3)Customer finds it helpful
	4)User gets a higher class
	5) Sorting of reviews
6)Gets higher class	

Custom Made Orders:

Description: For customized merchandise, order can be placed by the provision of upload of a sample feature.

Input: Products described by user to the seller. Processing: Order processing done by site. Output: Custom made product delivered to the users.

3)Custom made order

System actions
, , , , , , , , , , , , , , , , , , , ,
2)Product availability checked
3)Contact vendor
4)Obtain the product
6)Redirected to payment gateway
8)Product sent

Reorder Mechanism:

Description: There are some products which need to be ordered frequently with certain time intervals (e.g.: printer ink, food, soaps, etc.). So products will have a reorder time for which reminder can be set.

Input: Frequently bought products by users.

Processing: Keeps frequently bought items for reordering quickly. Output: Notification for reordering products.

D)Reordering products

D/Neordening products	
User action	System actions
1)Product bought multiple times	
	2)Add the product to frequently bought
	3)Ask user to set an interval for reorder
4)Time set	
	5)Notification for conformation sent to user in intervals
6)Confirms purchase	
	7)Product sent to user

Data Dictionary

C_name: Customer's Name (string)

C_addr: name + house + street + city + pin C_email: Customer's E-mail ID (string) C phone: Customer' Phone No. (int)

I_name: Item's Name (string)
I_price: Item's Prince (int)

I_reviews: {int}*
Quantity: int

CP_name: Company's Name (string)

CP_reviews: {int}*

OR_ID: C_phone + {I_name + Quantity}*

Standard Compliance

The following table lists the different standards that the project is to be in compliance with.

DNS:	Domain Name Service
HTTP	Hypertext Transfer Protoco I.
PAR:	Positive Acknowledgment and Retransmission

Chapter:3 - System Design

STRUCTURAL UML DIAGRAMS

UML Class diagram

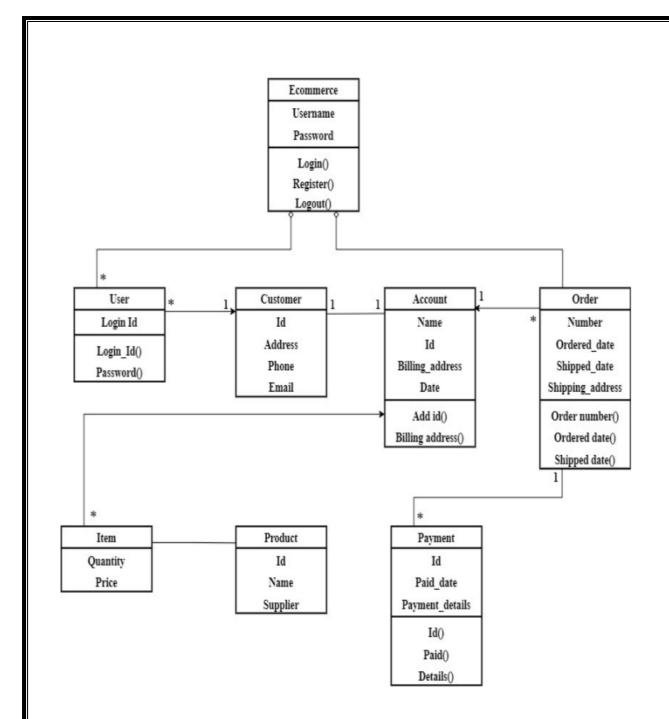
Class diagram is a static diagram. It represents the static view of an application. Class diagram is not only used for visualizing, describing, and documenting different aspects of a system but also for constructing executable code of the software application. Class diagram describes the attributes and operations of a class and also the constraints imposed on the system. The class diagrams are widely used in the modelling of object-oriented systems because they are the only UML diagrams, which can be mapped directly with object-oriented languages.

Class diagram shows a collection of classes, interfaces, associations, collaborations, and constraints. It is also known as a structural diagram.

Purpose of Class Diagrams

The purpose of class diagram is to model the static view of an application. Class diagrams are the only diagrams which can be directly mapped with object-oriented languages and thus widely used at the time of construction. UML diagrams like activity diagram, sequence diagram can only give the sequence flow of the application, however class diagram is a bit different. It is the most popular UML diagram in the coder community. The purpose of the class diagram can be summarized as —

- Analysis and design of the static view of an application.
- Describe responsibilities of a system.
- Base for component and deployment diagrams.
- Forward and reverse engineering.



UML Deployment diagram

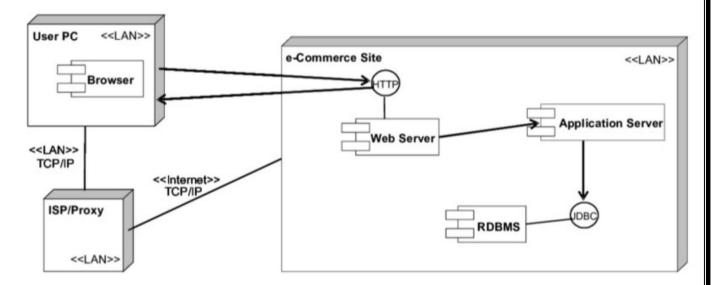
Deployment diagrams are used to visualize the topology of the physical components of a system, where the software components are deployed. Deployment diagrams are used to describe the static deployment view of a system. Deployment diagrams consist of nodes and their relationships.

Purpose of Deployment Diagrams

The Term Deployment itself describes the purpose of the diagram. Deployment diagrams are used for describing the hardware components, where software components are deployed. Component diagrams and deployment diagrams are closely related. Component diagrams are used to describe the components and deployment diagrams shows how they are deployed in

hardware. UML is mainly designed to focus on the software artifacts of a system. However, these two diagrams are special diagrams used to focus on software and hardware components. Most of the UML diagrams are used to handle logical components but deployment diagrams are made to focus on the hardware topology of a system. Deployment diagrams are used by the system engineers. The purpose of deployment diagrams can be described as —

- Visualize the hardware topology of a system.
- Describe the hardware components used to deploy software components.
- Describe the runtime processing nodes.



BEHAVIORAL UML DIAGRAMS

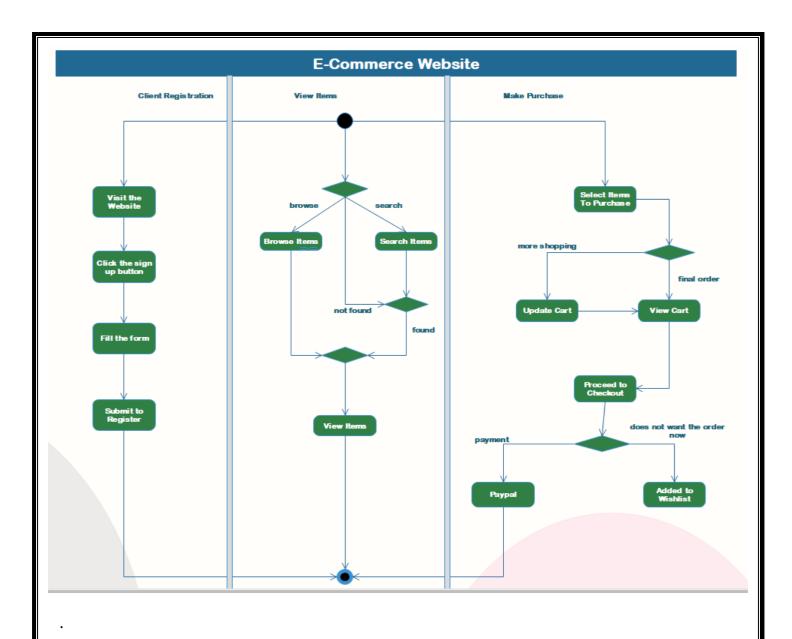
UML Activity diagram

Activity diagram is another important diagram in UML to describe the dynamic aspects of the system. Activity diagram is basically a flowchart to represent the flow from one activity to another activity. The activity can be described as an operation of the system. The control flow is drawn from one operation to another. This flow can be sequential, branched, or concurrent. Activity diagrams deal with all type of flow control by using different elements such as fork, join, etc.

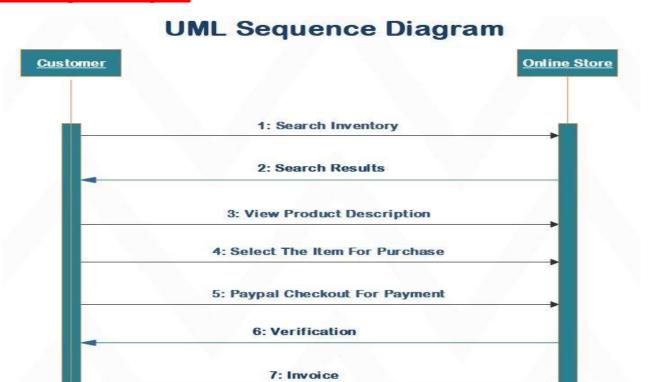
Purpose of Activity Diagrams

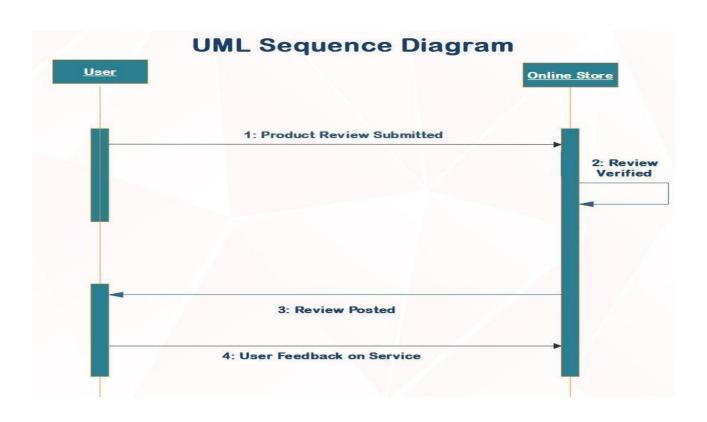
The basic purposes of activity diagrams are similar to other four diagrams. It captures the dynamic behavior of the system. Other four diagrams are used to show the message flow from one object to another but activity diagram is used to show message flow from one activity to another. Activity is a particular operation of the system. Activity diagrams are not only used for visualizing the dynamic nature of a system, but they are also used to construct the executable system by using forward and reverse engineering techniques. The only missing thing in the activity diagram is the message part. It does not show any message flow from one activity to another. Activity diagram is sometimes considered as the flowchart. Although the diagrams look like a flowchart, they are not. It shows different flows such as parallel, branched, concurrent, and single. The purpose of an activity diagram can be described as —

- Draw the activity flow of a system.
- Describe the sequence from one activity to another.
- Describe the parallel, branched and concurrent flow of the system.

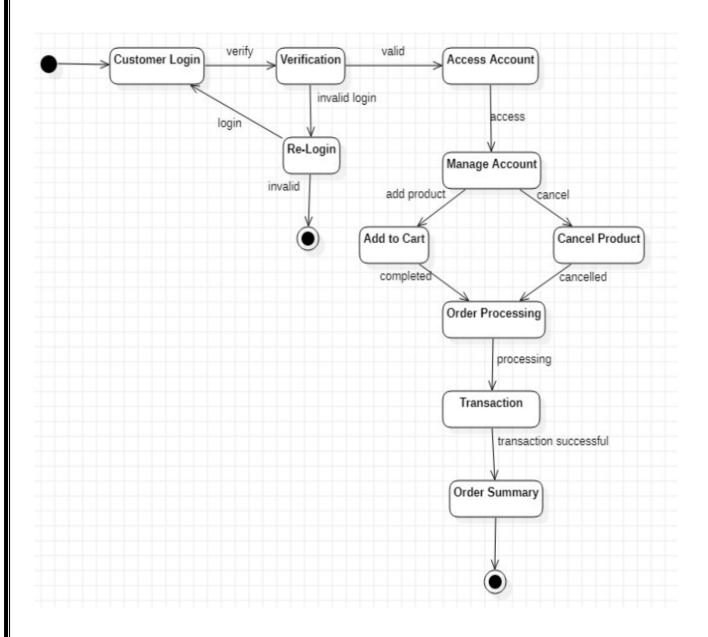


*UML Sequence diagram





UML State diagram



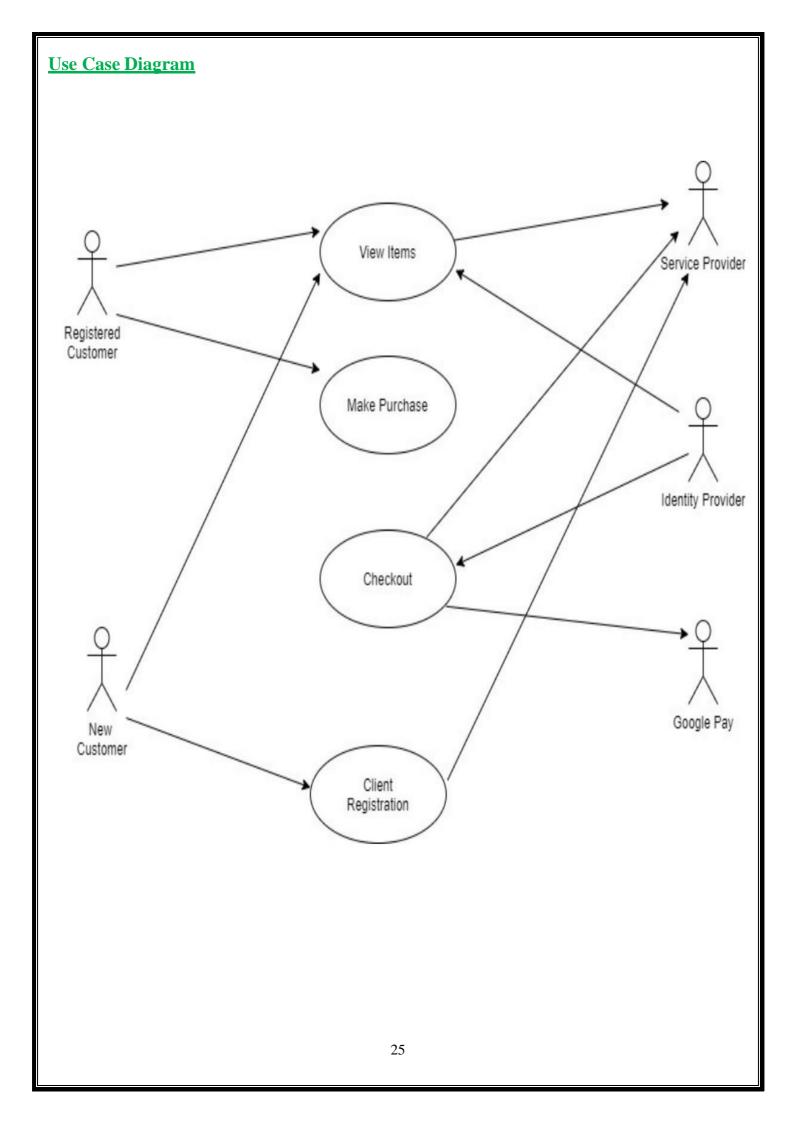
USE CASE DIAGRAM

To model a system, the most important aspect is to capture the dynamic behavior. Dynamic behavior means the behavior of the system when it is running/operating. Only static behavior is not sufficient to model a system rather dynamic behavior is more important than static behavior. In UML, there are five diagrams available to model the dynamic nature and use case diagram is one of them. Now as we have to discuss that the use case diagram is dynamic in nature, there should be some internal or external factors for making the interaction. These internal and external agents are known as actors. Use case diagrams consists of actors, use cases and their relationships. The diagram is used to model the system/subsystem of an application. A single use case diagram captures a particular functionality of a system. Hence to model the entire system, a number of use case diagrams are used.

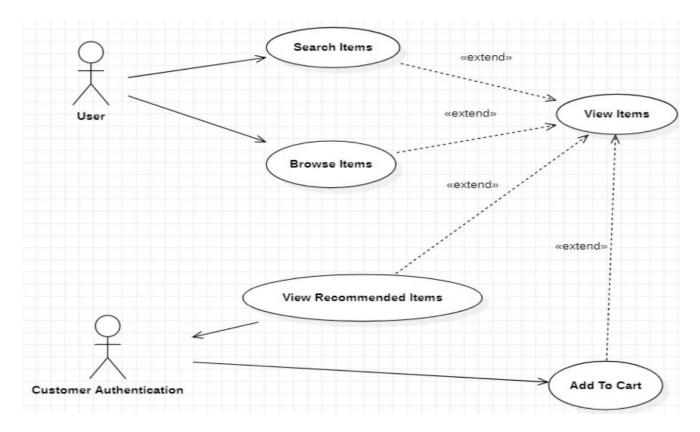
Purpose of Use Case Diagrams

The purpose of use case diagram is to capture the dynamic aspect of a system. However, this definition is too generic to describe the purpose, as other four diagrams (activity, sequence, collaboration, and State chart) also have the same purpose. We will look into some specific purpose, which will distinguish it from other four diagrams. Use case diagrams are used to gather the requirements of a system including internal and external influences. These requirements are mostly design requirements. Hence, when a system is analyzed to gather its functionalities, use cases are prepared and actors are identified. When the initial task is complete, use case diagrams are modelled to present the outside view. In brief, the purposes of use case diagrams can be said to be as follows —:

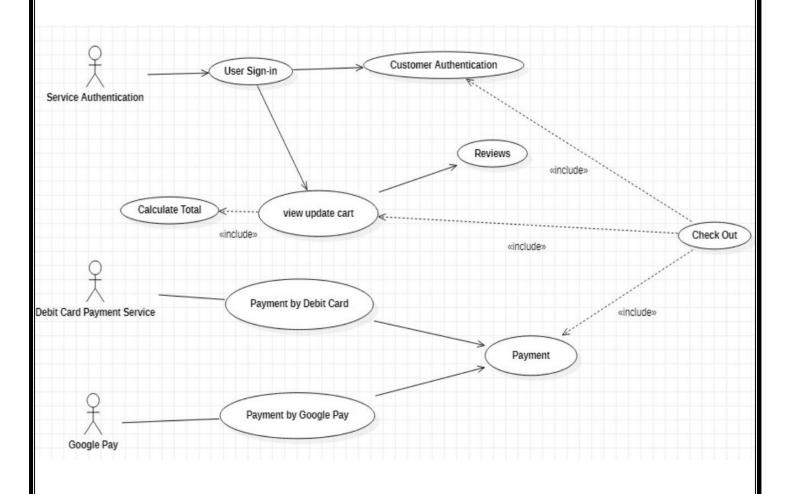
- Used to gather the requirements of a system.
- Used to get an outside view of a system.
- Identify the external and internal factors influencing the system.
- Show the interaction among the requirements are actors



View Item Use Case

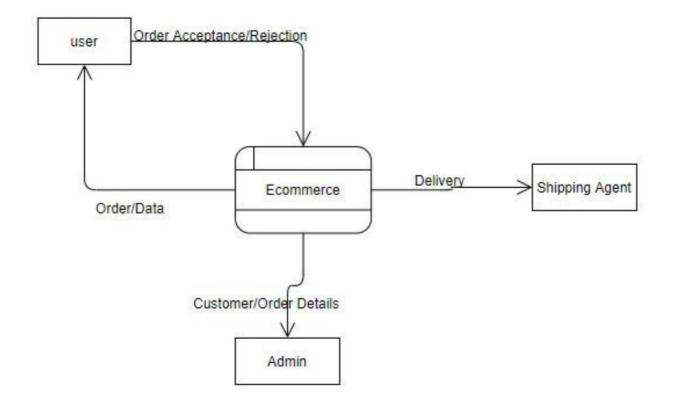


3.4.1.2. Checkout, Payment, Authentication Use Case Diagram

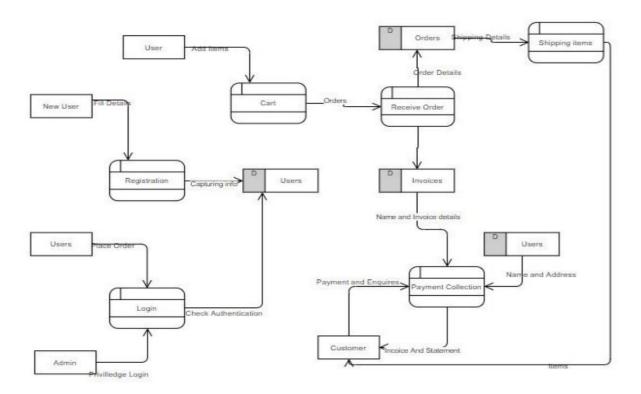


DATA FLOW DIAGRAMS

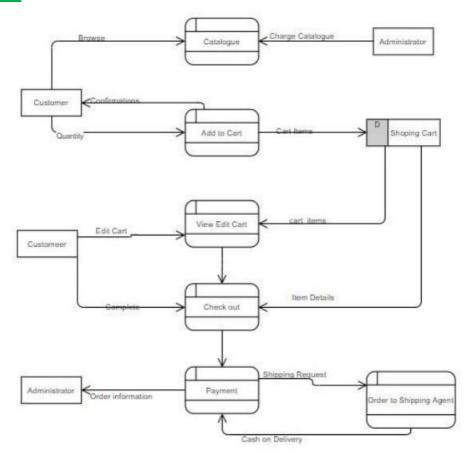
DFD (level-0)



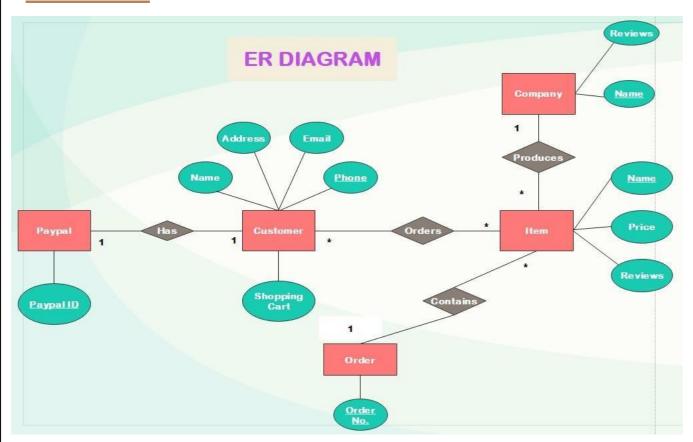
DFD (level-1)



DFD (level-2)



ER DIAGRAM



Chapter :4- Software Test Plan

Test Cases

Test Case-1

	Project Name:	E-Commerce Review System	Test Designed by:	sanjil			
	Module Name:	Home page	Test Designed date:	11-05-2021			
	Release Version	1.0	Test Executed by:	puneeth			
			Test Execution date:	11-10-2021			
Pre-condition	Good Browser v	vith better internet connection					
Dependencies:	none						
Test Priority	high Priority					3	
Test Case#	Test Title	Test Summary	Test Steps	Test Data	Expected Result	Actual Result	Status
ECRS1	Home page	home page will be displayed or not after login	open chrome browser	userid	Chrome browser is opened	Chrome browser is opened	pass
			search for the website	passsword	Website is opened	Website is opened	pass
			Enter user id and password		enter user id and password	enter user id and password	pass
			select login option		home page is displayed	home page is displayed	pass
ECRS2	Home page	Products displayed on home page are categorised	open chrome browser	userid	Chrome browser is opened	Chrome browser is opened	pass
	200.00	2 Mar. 200	search for the website	passsword	Website is opened	Website is opened	pass
			Enter user id and password	2777	Enter user id and password	enter user id and password	pass
			select login option		Products will be categorised and displayed	Products will be categorised and dis	pass
ECRS3	Home page	Application is verified on different browsers			Homepage is same on different browsers	Homepage is not same	fail

Test Case-2

	Project Name:	E-Commerce Review System	Test Designed by:	sanjil			
	Module Name:	Product Details	Test Designed date:	11-05-2021			
	Release Version:	1.0	Test Executed by:	saurav			
			Test Execution date:	11-10-2021			
Pre-conditio	n Good browser wit	Th better internet connection					
Dependencies:							
Test Priority	high priority						
Test Case#	Test Title	Test Summary	Test Steps	Test Data	Expected Result	Actual Result	Status
Test Case# ECRS4		Test Summary details on the products are verified	Test Steps Open chrome Browser	Test Data		Actual Result	Status pass
					Chrome browser is opened		
			Open chrome Browser	user id	Chrome browser is opened Website is opened	opened	pass
			Open chrome Browser search for the website	user id	Chrome browser is opened Website is opened enter user id and password	opened opened	pass pass
			Open chrome Browser search for the website Enter user id and password	user id password	Chrome browser is opened Website is opened enter user id and password home page is displayed	opened opened verified	pass pass pass
	Product Details		Open chrome Browser search for the website Enter user id and password select login option	user id password	Chrome browser is opened Website is opened enter user id and password home page is displayed details of the product displayed correct	opened opened verified displayed	pass pass pass pass
ECR\$4	Product Details Product Details	details on the products are verified	Open chrome Browser search for the website Enter user id and password select login option Select the products displayed on home page	user id password	Chrome browser is opened Website is opened enter user id and password home page is displayed details of the product displayed correct	opened opened verified displayed correct details displayed correct images	pass pass pass pass pass

Test Case-3

	Project Name:	E-Commerce Review System	Test Designed by:	sanjil			
	Module Name:	Search Products	Test Designed date:	11-05-2021			
	Release Version:	1.0	Test Executed by:	puneeth			
			Test Execution date:	11-10-2021			
Pre-condition	User should login t	to the website with good browser with better inte	met connection				
Dependencies:	none	24.00	Α			A) N	
Test Priority	medium priority						
Test Case#	Test Title	Test Summary	Test Steps	Test Data	Expected Result	Actual Result	Status
Test Case# ECRS7		Test Summary find the required products easily by searching	Test Steps Click on Search bar	Test Data	Expected Result	Actual Result accepts all names including numbers	Status pass
		Test Summary find the required products easily by searching	Click on Search bar	77.1			(10,000
	Search Products		Click on Search bar	user id password		accepts all names including numbers	(and a second
ECRS7	Search Products Search Products	find the required products easily by searching	Click on Search bar enter the product name to be searched	user id password	accepts all names search for the product	accepts all names including numbers	pass

Test Case-4

Project Name:	E-Commerce Review System	Test Designed by:	sanjil			
Module Name:	Cart	Test Designed date:	11-05-2021			
Release Version:	1.0	Test Executed by:	saurav			
		Test Execution date:	11-10-2021			
	ite and search for the products require	d.	al .			
none	V	Y		V	20	
medium						
Test Title	Test Summary	Test Steps	Test Data	Expected Result	Actual Result	Status
Cart	Products will be added into the cart	select the required product	user id	product will be selected	selected and displayed	pass
		click on add to the cart of that product	password	product will be added to cart	product will be displayed in cart	pass
			0	increase in quantity	0	
	Module Name: Release Version: Login to the websi none medium Test Title	Module Name: Cart Release Version: 1,0 Login to the website and search for the products require none medium Test Title Test Summary	Module Name: Cart Test Designed date: Release Version: 1.0 Test Executed by: Test Execution date: Login to the website and search for the products required none medium Test Title Test Summary Test Steps Cart Products will be added into the cart select the required product	Module Name: Cart Test Designed date: 11-05-2021 Release Version: 1.0 Test Executed by: saurav Test Execution date: 11-10-2021 Login to the website and search for the products required none medium Test Title Test Summary Test Steps Test Data Cart Products will be added into the cart select the required product user id	Module Name: Cart Test Designed date: 11-05-2021 Release Version: 1.0 Test Executed by: saurav Test Execution date: 11-10-2021 Login to the website and search for the products required none medium Test Title Test Summary Test Steps Test Data Expected Result Products will be added into the cart select the required product user id product will be selected	Module Name: Cart Test Designed date: 11-05-2021

Test Case-5

	Project Name:	E-Commerce Review System	Test Designed by:	sanjil			
	Module Name:	Orders	Test Designed date:	11-05-2021			
	Release Version:	1.0	Test Executed by:	puneeth			
		3	Test Execution date	11-10-2021			
Pre-conditio	n Required products	should be added into the cart					
Dependencies:	none	ju	113			N All	
Test Priority	High Priority						
Test Case#	Test Title	Test Summary	Test Steps	Test Data	Expected Result	Actual Result	Status
ECR12	My Orders	Details of the product and order id is verified	go to my orders page	user id	orders page will be opened	orders page opened	pass
595			Total Orders placed	password	all the order details will be displayed	did not display	fail
	11.01	D-4-3644444	Track the order		shows the position of the order	error	fail
ECR13	My Orders	Details of the product and order id is verified	Hack the order		shows the position of the order	ciroi	Tan

Test Case-6

	Project Name:	E-Commerce Review System	Test Designed by:	sanjil			
	Module Name:	Review System	Test Designed date:	11-05-2021	The second second		
	Release Version:	1.0	Test Executed by:	saurav	Ĭ		
			Test Execution date:	11-10-2021			
Pre-condition	user should login	to the website with good browser	H/	À		117	
Dependencies	: none	8.		100			
Test Priority	Medium Priority						
Test Case#	Test Title	Test Summary	Test Steps	Test Data	Expected Result	Actual Result	Status
ECR15	Review System	Reviews about the product will be displayed	login to the review page	user id	logged into the review page	logged into the review page	pass
	1		write a review for a product	password	reviews can be written	write a review	pass
ECR16	Review System		reviews will be verified		fake reviiews will be removed	original reviews will be displayed	

Chapter:5

5.1 SAMPLE CODE

LOGIN HEADER

```
| Control | Cont
```

PLACE ORDER

ADMIN DELETE FAKE REVIEW

```
session_start();
        include("admin_login_header.php");
    $conn = mysqli_connect("localhost","root","");
    if (mysqli_connect_errno())
        echo "Failed to connect to MySQL: " . mysqli_connect_error();
    }
    $conn = mysqli_connect("localhost","root","");
    mysqli_select_db($conn,"ita");
//$sql = "criser"
    //$sql = "SELECT * FROM products where pid like '1%' ORDER BY pid ";
$sql = "select * from reviews";
    $result = $conn->query($sq1);
<TITLE>Review Monitoring</TITLE>
table,tr,td {
        border-style: solid;
        border-color: grey;
        border-collapse: collapse;
        padding: 10px;
        width: auto;
        background-color: #fff;
        font-family: Helvetica;
        font-weight: normal;
        align-items: center;
        align-content: center;
```

REVIEW PRODUCT

SHOP

```
| ClocryPE html> | Chtml> | Ch
```

SIDE MENU

```
$login = $_GET['login'];
<!DOCTYPE html>
<meta name="viewport" content="width=device-width, initial-scale=1">
body {
    font-family: "Lato", sans-serif;
.sidenav {
   height: relative;
   width: 300px;
   position: fixed;
   z-index: 1;
    top: 0;
    left: 0;
   background-color: #458b3b;
   overflow-x: hidden;
   padding-top: 20px;
    margin-top: 160px;
   vertical-align: center;
   color: #FFF;
.sidenav a {
    padding: 10px 8px 10px 16px;
    text-decoration: none;
    font-size: 25px;
    color: #FFF;
    display: block;
```

DATABASE

```
-- Table structure for table `admin`
    CREATE TABLE `admin` (
     `aid` int(11) NOT NULL,
       `username` varchar(30) NOT NULL,
     `password` varchar(50) NOT NULL
     ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
35
     -- Dumping data for table `admin`
     INSERT INTO `admin` (`aid`, `username`, `password`) VALUES
     (1, 'admin', 'admin123');
     -- Table structure for table `category`
    CREATE TABLE `category` (
     `cid` int(11) NOT NULL,
     `cname` varchar(30) NOT NULL
     ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
   -- Dumping data for table `category`
   INSERT INTO `category` (`cid`, `cname`) VALUES
   (1, 'men'),
   (2, 'women'),
   (3, 'books'),
   (4, 'gadgets'),
   (5, 'sports');
```

Chapter:6

6.1 Module Interface

Home page Design



User Interface Design



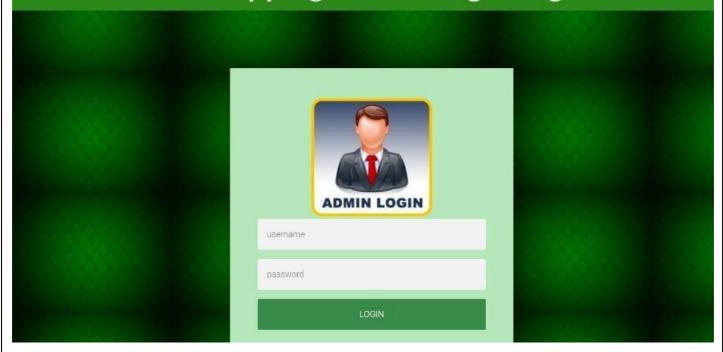
Login page if you are already A user: Online Shopping User Login Page Return to Home Page email password

Online Shopping site:



Admin Login page:

Online Shopping Admin Login Page



Admin view site:

Online Shopping

Logout

ACTIONS Add product Delete product Remove fake reviews Rate a product

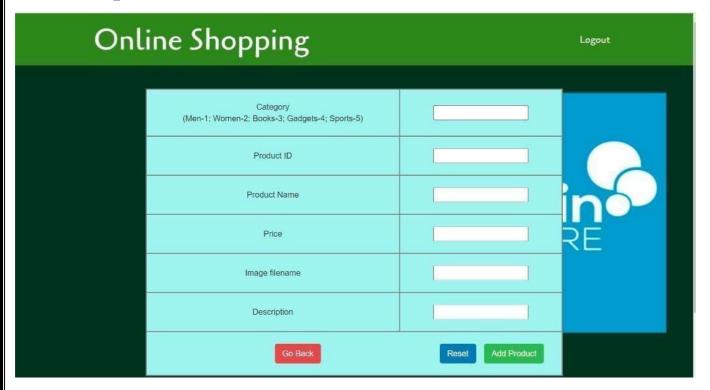


6.2 Process Interface

Review site for The products user purchased:



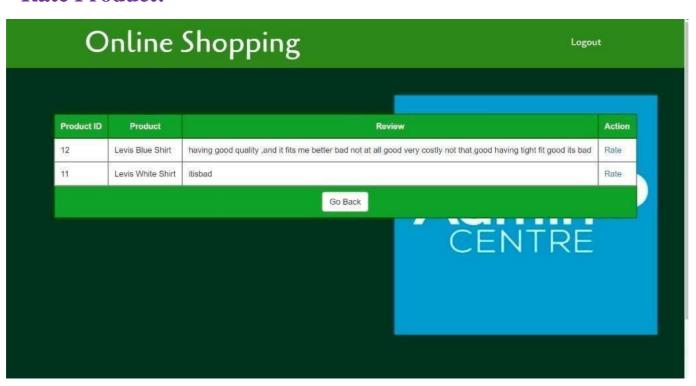
Add product(Admin side):



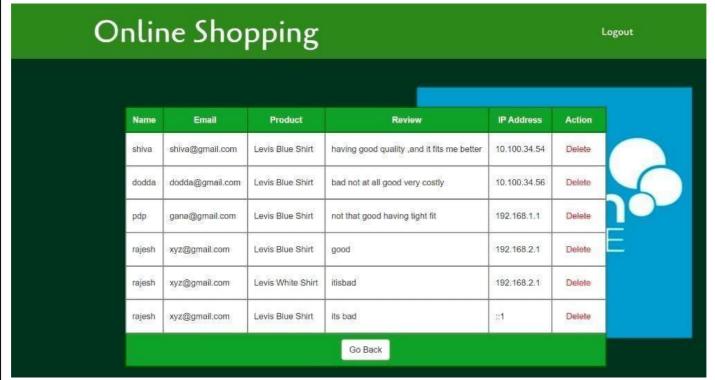
Delete Product(Admin Side):



Rate Product:



Fake Review Elimination Site using Ip address:



Description:

When a user logins with the same mail and password and when submits Multiple Reviews The system Will track the ip address of the user using Opinion Mining Methodology I gives a signal to The Admin so that Admin can eliminate The fake reviews and fake reviews spam can be minimized .

Chapter: 7 - Result Analysis and Discussions

The proposed Fake Product Review Monitoring system brings out the technology which helps to find out the review that made for product is true or not. The reason for introducing this Monitoring and removing system is to purchase the required products in a best manner. Because fake reviews also been added by owner or seller of that particular product. Users or customers of the product can't able to find these types of reviews. So proposed system would identify the fake kind of reviews based on the IP address of users. Firstly, the user will log in to their account and will do purchase the products as they want.

While reviews are added by users, the IP address is made to be noted. If many reviews are received from same IP address, that would be intimated to administrator. Then the administrator is allowed to remove those reviews that are added in fake manner. This process of tracking the IP address has been taking over by data mining technologies. Finally this methodology helps to identify the correct review. Using the trustworthy reviews one can able to buy the best and wishful products. Providing good products enhance the good reviews and better sales. This system also paves a way to bring out the best turnover for the sellers.

Advantages: -

- User gets genuine reviews about the product.
- User can post their own review about the product.
- User can spend money on valuable products.

Disadvantages: -

• If the social media optimization team uses different IP address to send the review, system will fail to track the fake review.

Application: -

This application will be used by the people who like to spend their money on valuable products.

Chapter:8 - Conclusion

There have been made several attempts for spam review detection till today. In this paper, we propose a general framework to detect spam reviews. Sentiment analysis or opinion mining is a field of study that analyses people's sentiments, feelings, or emotions towards certain entities. This paper tackles a fundamental problem of sentiment analysis, sentiment polarity categorization. Now a day's technology is growing day by day and there are so many websites and application available in the online market by which they sell their product. Every product contains millions of reviews and on basis of these reviews' user buy the product most of the time. There are some organizations which post fake reviews on genuine product and user gets stuck.

Our software will help the user to pay for the right product. Our software will do analysis and then if any fake review is found from any IP address consistently then admin user can block that IP address. It also sends mail to user regarding blocked IP address. In this way it monitors the fake review made on any product. And user can be sure about the products availability on that application and reviews too.

CHAPTER:9- Future Work

- The restriction of requirement of product name in particular product review can be removed though it might be a tough task.
- The admin has to manually block the IP of the spammer account by identifying its pattern, automatic blocking can also be achieved in the future scope of the system.

A review of the applications of feelings analysis applicable to their methods and technologies are provided here. This analysis of study and literature offers valuable insights into the advantages and value of interpreting and classifying feelings. The primary issue is the exact classification of all sentiment analysis techniques. Many experiments have had high success rates, but the accuracy percentages in all approaches and languages have still not been achieved. Most sentiment analysis methods depend on English-language text, and the methods developed are therefore mainly English. Work should be improved in other languages because the knowledge is not accessible in English alone.

The limited focus of this study is that the application side there is primarily focused on the exclusion of the hardware and theory-related aspects. The growth in deep learning is making emotional research more and more difficult. Sentiment analysis has just gone beyond a modern-technology curiosity and will shortly covert an important resource for all modern-day businesses. You particularly need to find the right Feature Set for current hot deep learning that may become the subject of the research on sentiment analysis.

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