



G.M.D. ARTS, B.W. COMMERCE & SCIENCE COLLEGE, SINNAR.

Department Of Computer Science

A PROJECT REPORT ON

“Online Shopping Management System”

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Savitribai Phule Pune University

2022-2023



M.V.P. Samaj's
G.M.D. ARTS, B.W. COMMERCE & SCIENCE COLLEGE, SINNAR.

CERTIFICATE

This is to certify that,
Mr. Pawar Shubham Bharat
Mr. Gorade Shubham Babaji
Mr. Kalaskar Amol Shivaji


Student of B.SC. Computer Science has satisfactorily completed Project work on "Online Shopping Management System". towards partial fulfilment of degree course affiliated to Savitribai Phule Pune University for the Academic Year 2022-2023 at G.M.D. ARTS, B.W. COMMERCE & SCIENCE COLLEGE, SINNAR.


Project Guide

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External Examiner

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1.ABSTRACT

The Online Shopping is a web based application intended for online retailers. The main objective of this application is to make it interactive and its ease of use. It would make searching, viewing and selection of a product easier. It contains a sophisticated search engine for user's to search for products specific to their needs. The search engine provides an easy and convenient way to search for products where a user can Search for a product interactively and the search engine would refine the products available based on the user's input. The user can then view the complete specification of each product. They can also view the product reviews and also write their own reviews. The application also provides a drag and drop feature so that a user can add a product to the shopping cart by dragging the item in to the shopping cart. The main emphasis lies in providing a userfriendly search engine for effectively showing the desired results and its drag and drop behavior.

2.Introduction

Online shopping malls are e-commerce platform that allows customer to browse and purchase product from multiple merchants in one place. These shopping malls can offer a wide range of products including clothing,electronics,home goods, and more. The convenience of online shopping malls has made them a popular choice for consumers, especially in recent year as the COVID-19 pandemic has increased the demand for online shopping.

An online shopping mall project would involve the development and launch of an ecommerce platform that provides a seamless shopping experience for customer. The project would require the creation of a website or mobile app that allows customers to easily browse products make purchases, and track their orders.

Online shopping mall project has the potential to be a profitable venture that offers convenience and value to customers.

2.1 Motivation:

A. In computer science a design analysis of algorithm is a particular way of organizing data in a computer so that it can be used efficiently. It can implement on or more particular abstract data types which are the means of specifying the contract of operations & their complexity in comparison it is a concrete implementation on the contract provided by an ADT data structures provided in means to manage large amount of data efficiently for uses such as large databases and internet indexing services. The information of a data structures usually requires writing a set of procedures that create and manipulate instances of that structure.

B.

1. Increased convenience: Online shopping malls allow customers to shop from the comfort of their homes or offices, without the need to physically visit a store. This convenience factor is particularly important for busy individuals who may not have the time or inclination to visit a physical store.
2. Access to a wider range of products: Online shopping malls typically offer a wider range of products than physical stores. This is because they are not limited by physical space constraints, and can source products from a wider range of suppliers.
3. Personalization: Online shopping malls can use customer data to personalize the shopping experience for each individual. This can include personalized recommendations based on past purchases or browsing history, and targeted advertising.
4. Increased competition: Online shopping malls have increased competition, which can drive down prices and improve the quality of products and services. This competition can benefit customers by providing a wider range of options and better prices.
5. Lower prices: Online shopping malls often offer lower prices than physical stores. This is because they have lower overhead costs, such as rent and staffing costs, and can pass on these savings to customers.
6. Overall, the development of an online shopping mall can provide numerous benefits to both customers and businesses.

- C.
1. **Efficiency:** An online shopping management system can streamline the shopping process by allowing customers to browse products, place orders, and make payments all in one place. This can save time and reduce errors compared to manual processes.
 2. **Improved customer experience:** A well-designed online shopping management system can provide a seamless and user-friendly experience for customers, which can improve their overall satisfaction with the shopping process.
 3. **Increased sales:** An online shopping management system can allow businesses to reach a wider audience and increase sales by making their products available to customers all over the world.
 4. **Data collection and analysis:** An online shopping management system can collect data on customer behavior, preferences, and purchasing patterns. This data can be analyzed to provide insights into customer needs and preferences, which can inform business decisions and improve product offerings.
 5. **Cost savings:** An online shopping management system can reduce costs for businesses by eliminating the need for physical storefronts and reducing the need for manual labor.

2.2 Problem Statement:

This project aims to develop an online shopping for customer with goal so that it is very to shop your loved thing from extensive number of online shopping sites available on the web. With the help of this you can carry out an online shopping from your home. Here is no compelling require reason to go the crowded stores or shopping centers during festival seasons. You simply require a PC or a laptop and one important payment sending option to shop online.

TO get to this shopping system all the customer will need to have a email and password to login and proceed your shopping. The login credentials for an online shopping system are under high security and nobody will have the capacity to crack it easily.

2.3 Purpose/Objective and goals:

Shopping has long been considered a recreational activity by many. Shopping online is no exception. The goal of this application is to develop a web based interface for online retailers.

2.3 Purpose/Objective and goals:

Shopping has long been considered a recreational activity by many. Shopping online is no exception. The goal of this application is to develop a web based interface for online retailers. The system would be easy to use and hence make the shopping experience pleasant for the users. The goal of this application is

- To develop an easy to use web based interface where users can search for products, view a complete description of the products and order the products.
- A search engine that provides an easy and convenient way to search for products specific to their needs. The search engine would list a set of products based on the search term and the user can further filter the list based on various parameters.
- Drag and Drop feature which would allow the users to add a product to or remove a product from the shopping cart by dragging the product in to the shopping cart or out of the shopping cart.
- A user can view the complete specification of the product along with various images and also view the customer reviews of the product. They can also write their own reviews.

2.4 Literature survey:

Online Shopping play a great importance in the modern business environment. Online shopping has opened the door of opportunity and advantage to the firms. This paper analysed the different issue or online shopping. The research aims to provide theoretical contribution in understanding the present status of online shopping. The Study Discuss the consumers online shopping behaviours. Paper also identify the problems face by the consumers when they want to accept internet shopping. Present paper is a expressive study based on the detailed review of earlier pertinent studies related to the various concept of online shopping. Solitude and safety risk emerges regularly as a reason for being cautious about internet shopping. Shopping convenience, information seeking, social contact,testing,problems with complaints, product testing, problems with complaints, product return and missus of personal data are the main doubts regarding on-line shopping.

2.5 Project Scope and limitation:

Scope:

- (1) Using computerized system, Time accuracy facts are considerable changed.
- (2) To make existing system friendly.
- (3) Fast and efficient information accessed.
- (4) Easy to run on browser.

Limitation:

- (1) User can have required any browser without browser user cannot run project. Internet may be required.

3. System Analysis

3.1 Existing System:

Many customer go for purchasing offline so as to examine the product and hold the possession of the product just after the payment for the product.

In this contemporary world customer's loyalty depends upon the consistent ability to deliver quality. Value and satisfaction. Offline shopping has a sense of immediacy. You get to possess the item you've purchased the very moment.

If we can search and make a list of items that we would like to try while shopping, before actually going out. This way can be more confident in our purchase and not missing out something.

3.2 Scope and limitation of existing systems:

- Time Consuming
- Shipping Rates
- Refunds/Return Disputes
- Lack of options
- Cash-Back offers not present
- Bad customer service

3.3 Project perspective, features:

In near future, the system interface could be improved, with more attractive, interactive and meaningful images; enhance the system with an email and SMS or email notifications. Enhance the current system by computerizing almost all the services provided by the institution, turning it into a complete LMS. And evolve the system by developing several versions through user's feedback, if a complete solution has not been worked out.

3.4 Stakeholder:

- Admin
- Client / Customer

3.5 Requirement analysis:

Functional requirements for the purposed system which define the fundamental actions of the system contain all the information of the software requirements for the development of the online shopping mall management system project.

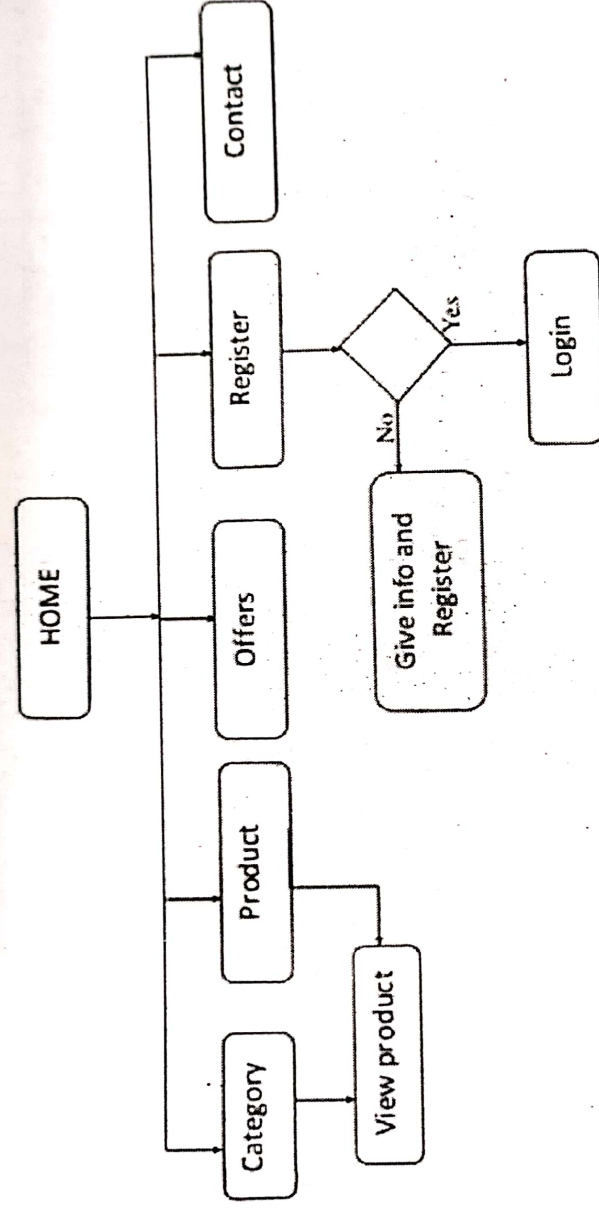
4. System Design

4.1 Design Constraints:

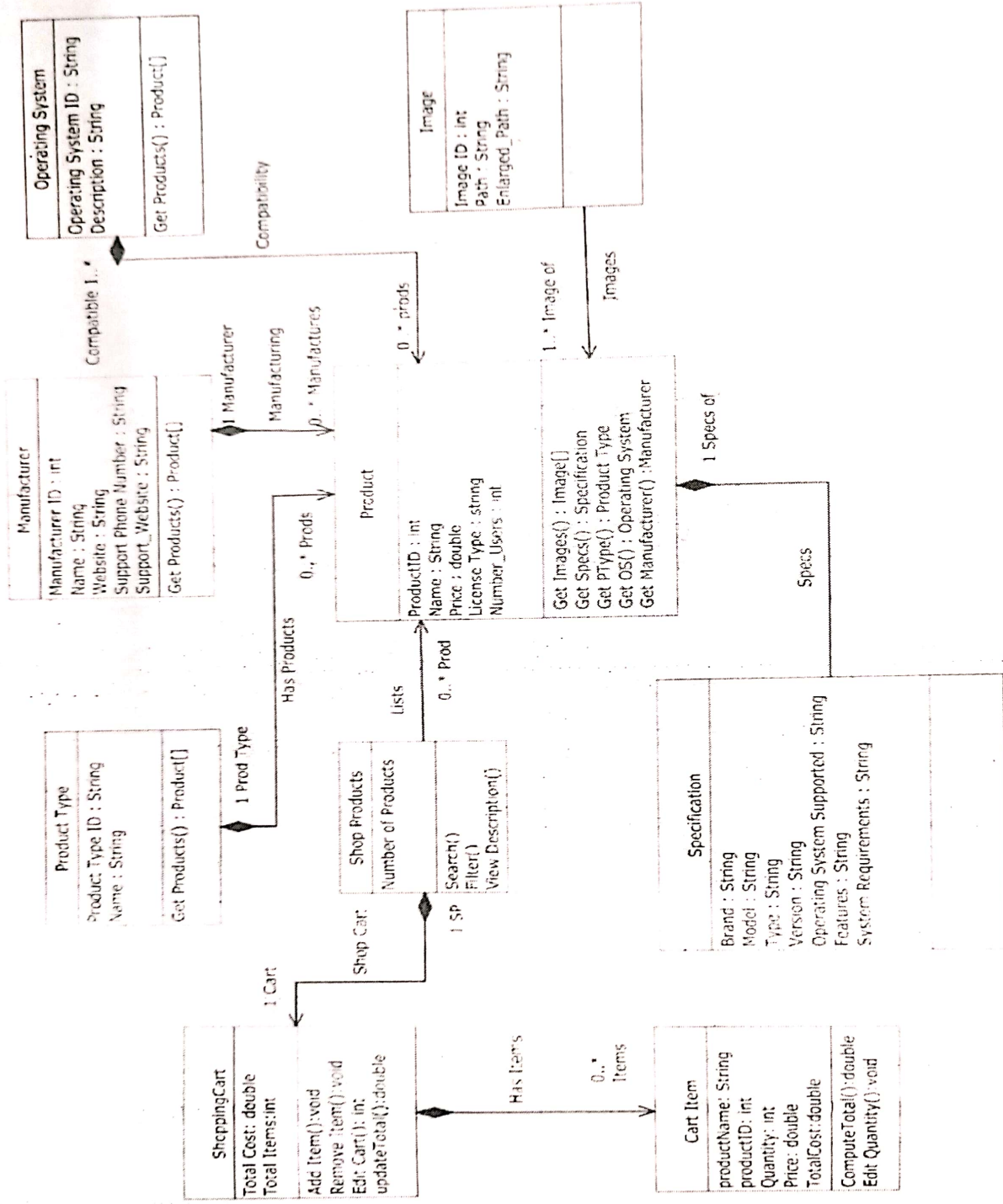
Common Diagram Containing Following- The Symbols used in ER diagram are as follow: ER Diagram describes data at rest, data being stored. Data relationship is the relation between the entities. Entity is an object that exist and its distinguishable from other objects. ER diagram shows data at rest. This means ER diagram does not show data flow.

4.2 System Model:

> ER Diagram =

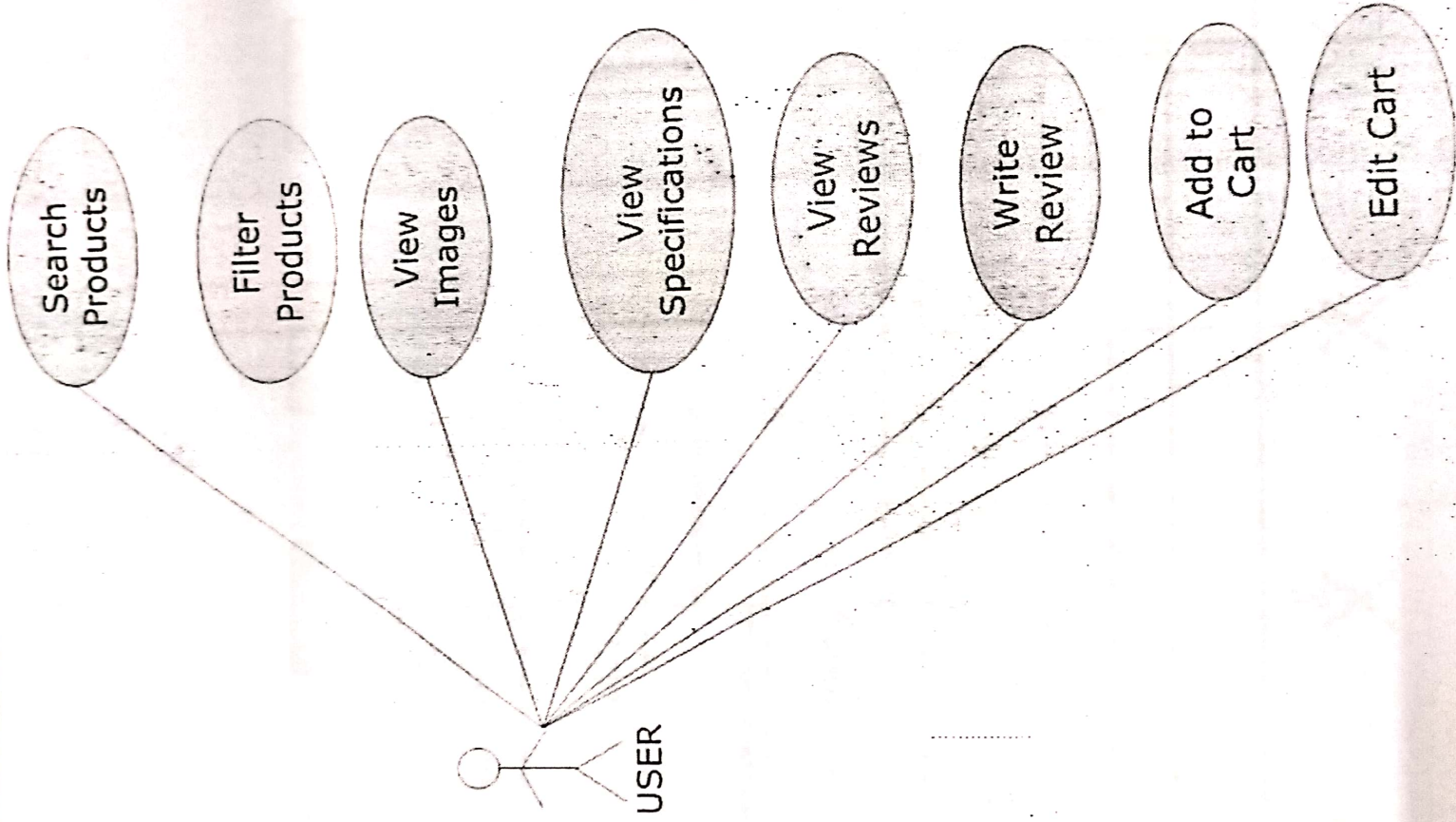


➤ Class Diagram:

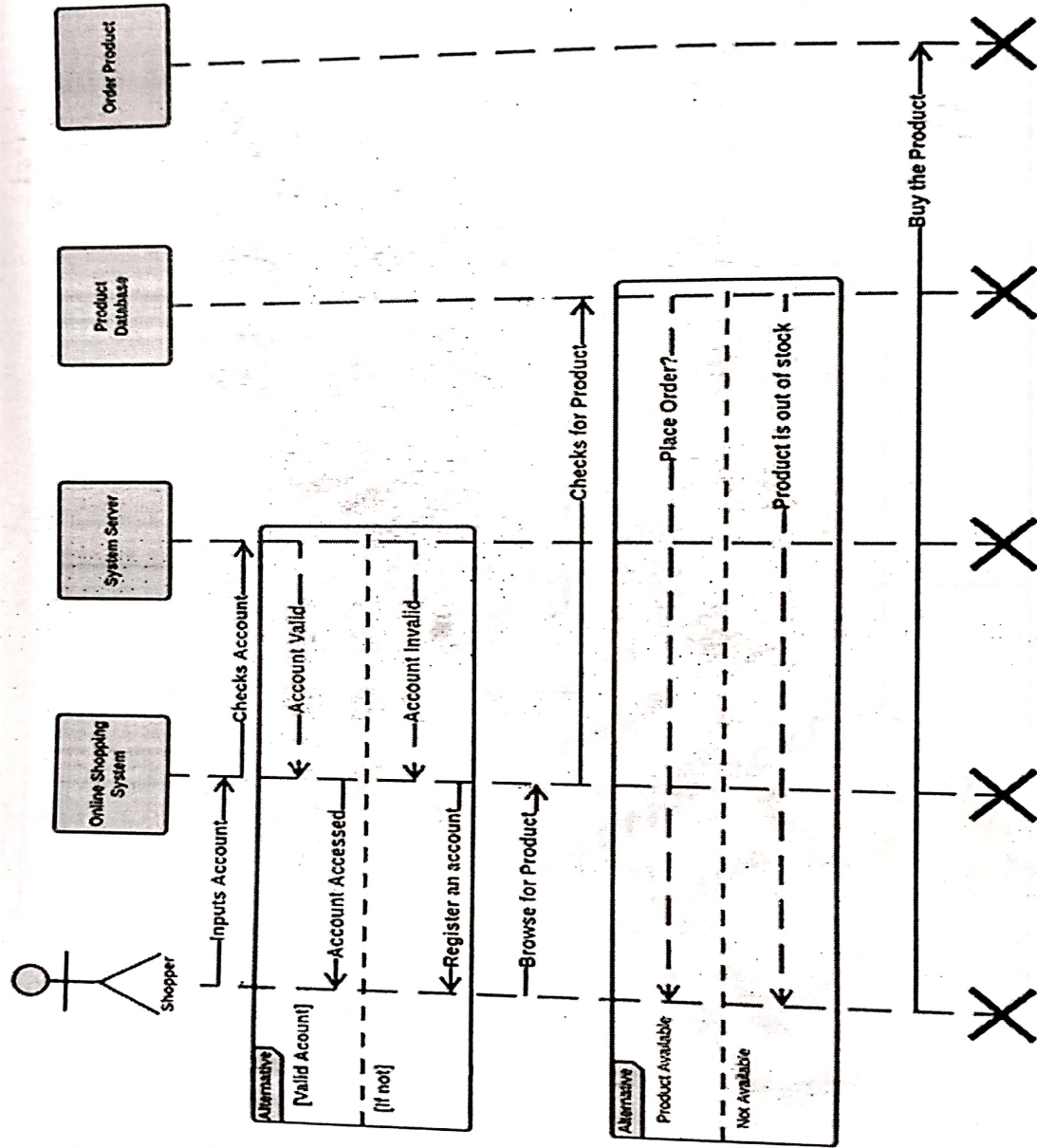


CLASS DIAGRAM

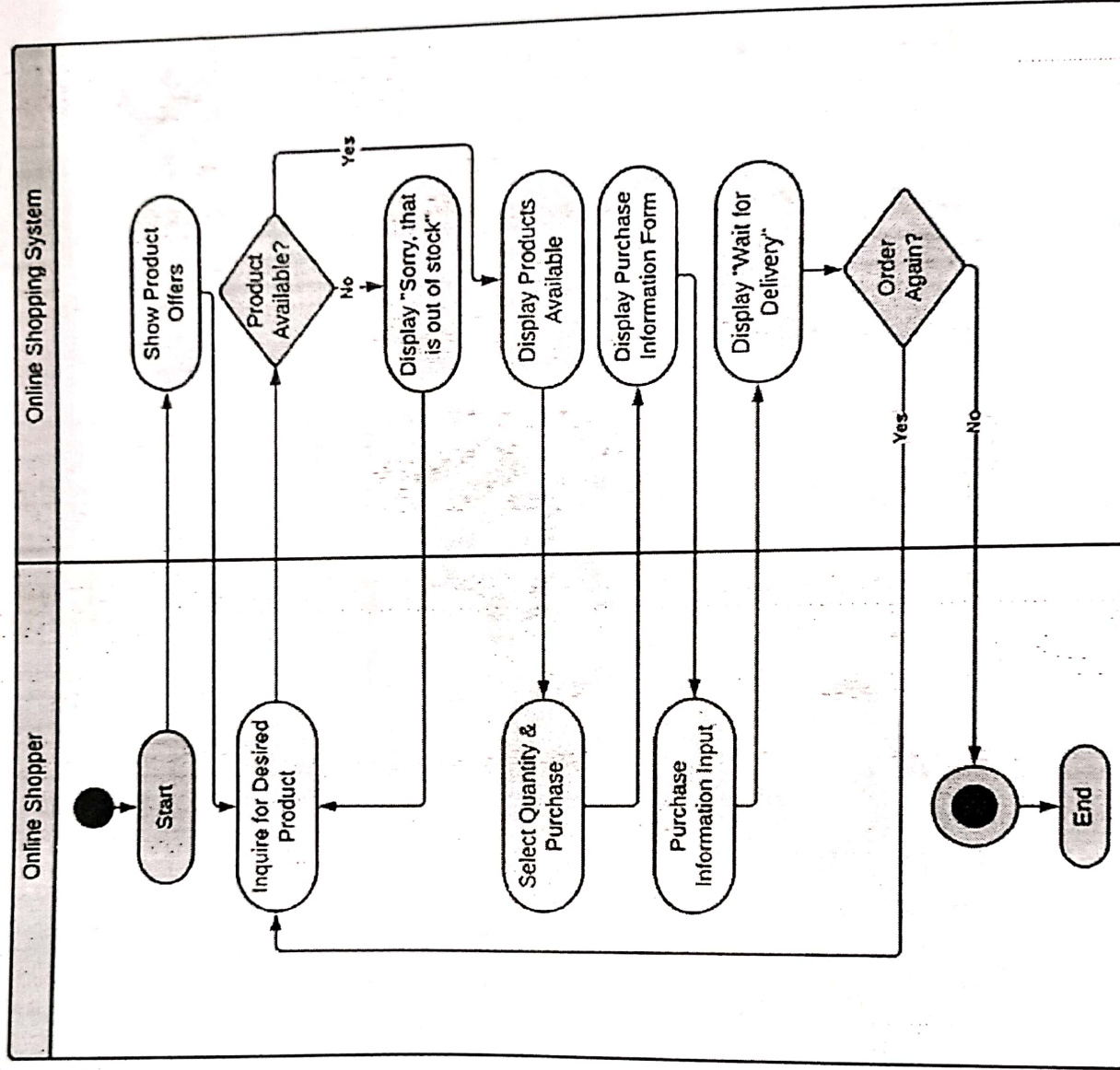
➤ Case Diagram:



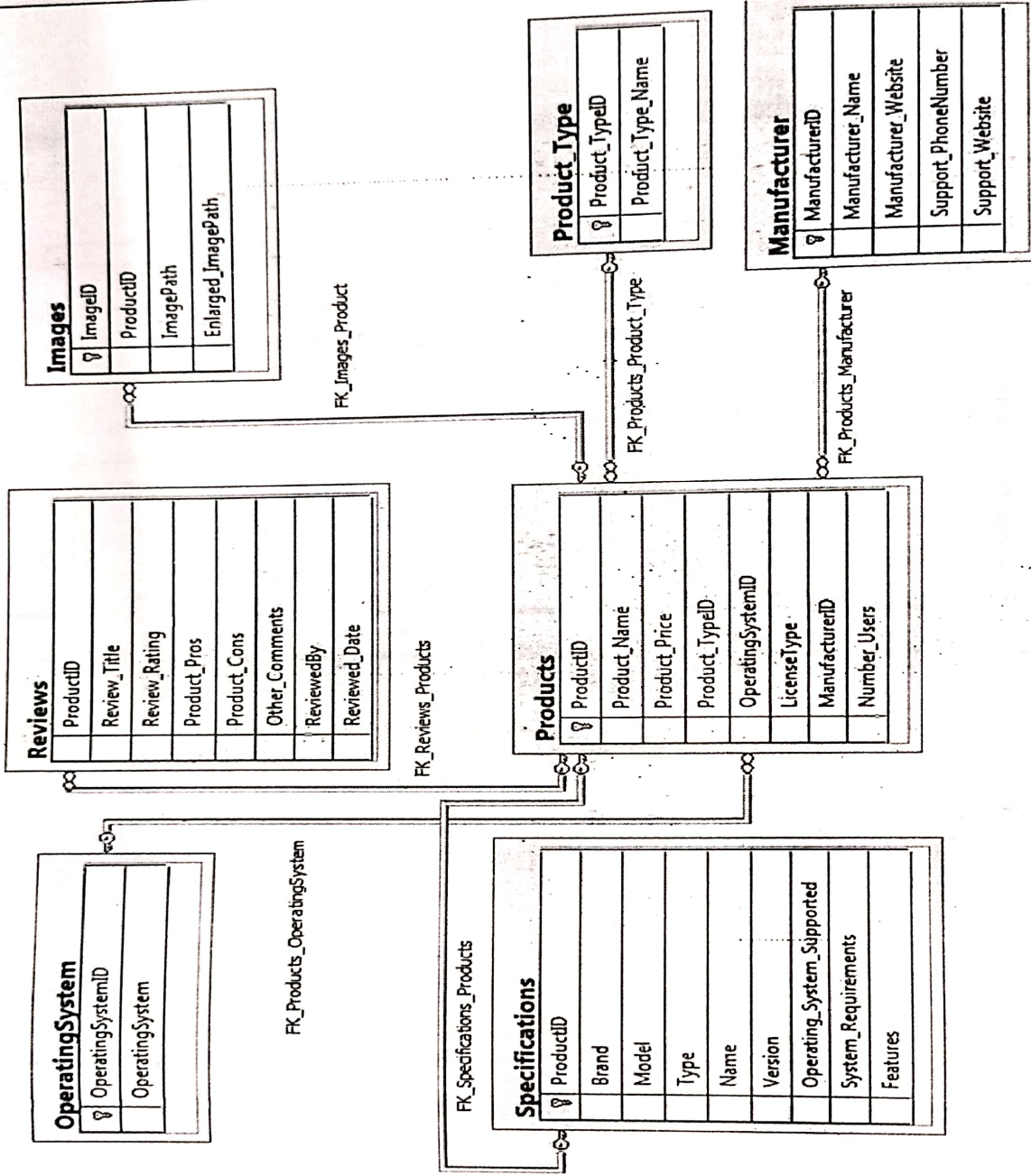
> Sequence Diagram:



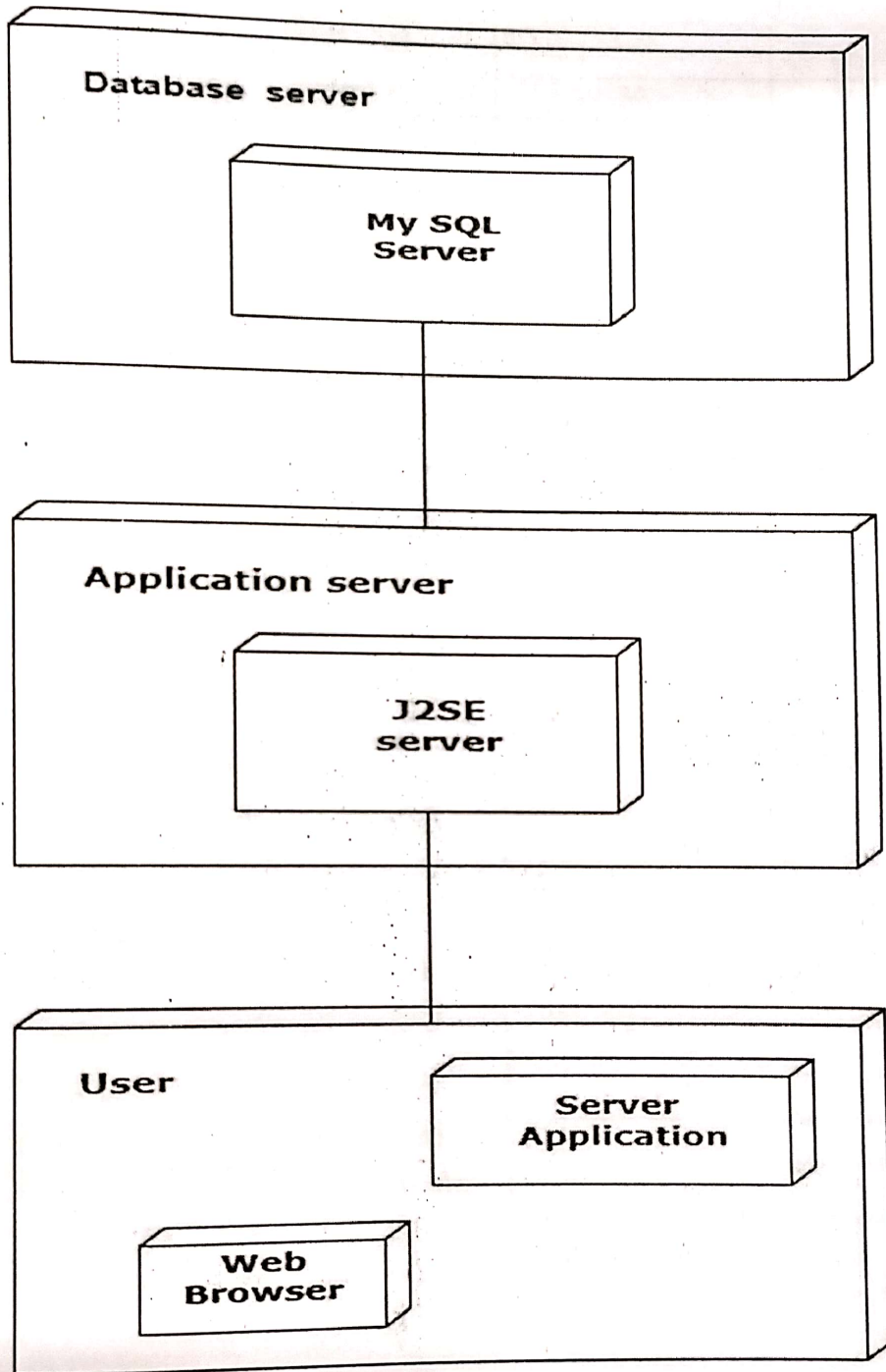
➤ Active Diagram:



➤ Database:



> Deployment Diagram:



4.3 Data Model:

1) Table 1- Admin:

Field	Data Type	Size	Key
Id	Varchar	30	Primary Key
Password	Varchar	30	Not Null

2) Table 2- Customer:

Field	Data Type	Size	Key
Customer (PK)	Varchar	30	Primary Key
Name	varchar	200	Primary Key
Customer add	Varchar	30	Not Null

3) Table 3- Shopping Order:

Field	Description	Size	Type
Order	Order ID	11	Int
Customer	Customer ID	11	int
Date	Date of Order		Null

4) Table 4-Deliveries:

Field	Description	Size	Type
acc_id	Account ID	11	Int
Customer_Id	Customer ID	11	int
Date	Date of Deliveries		Null

5) Table 5- Product:

Field	Description	Size	Type
product_id	Product ID	11	Int
Category_id	Category ID	11	int
Product_name	Product Name	255	varcahr

6) Table 6- Payment:

Field	Description	Size	Type
payment_id	Payment ID	11	Int
Customer_id	Customer ID	11	int
Date	Date of Payment		Null

7) Table 7- Report:

Field	Description	Size	Type
report_id	Order ID	11	Int
customer_id	Customer ID	11	int
Order_id	Date of Order	11	int
Product_id	Product ID	11	int
Payment_id	Payment ID	11	int

4.3 User Interface:

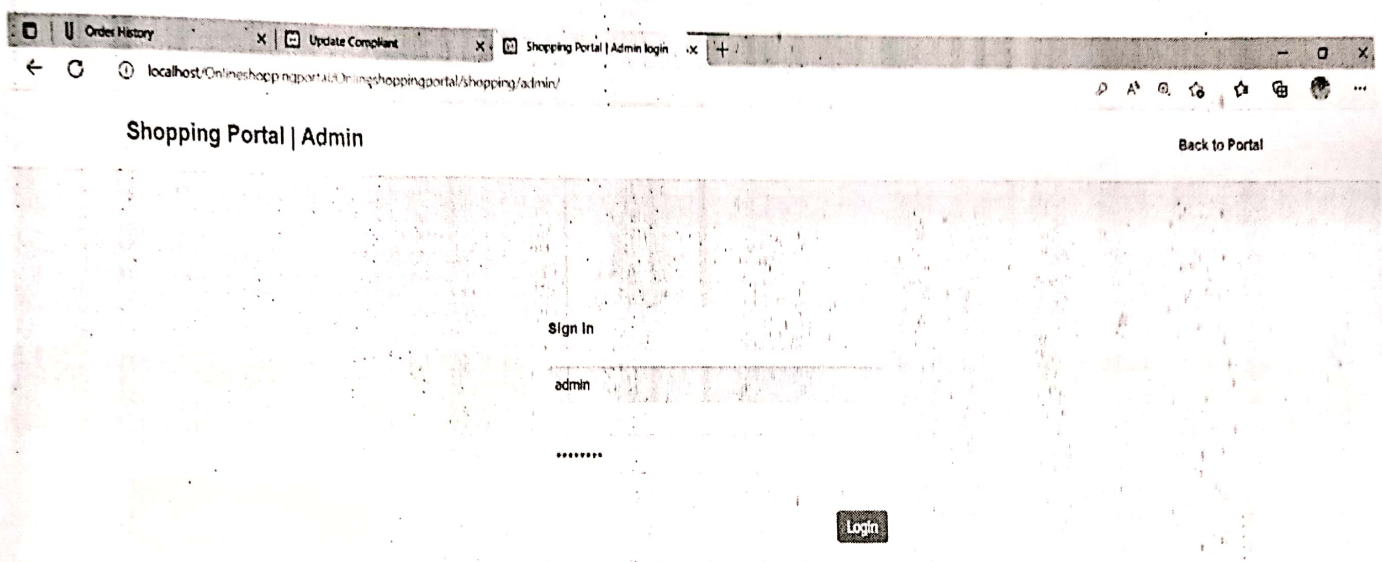
There are following User Interface:

- Client User Interface:

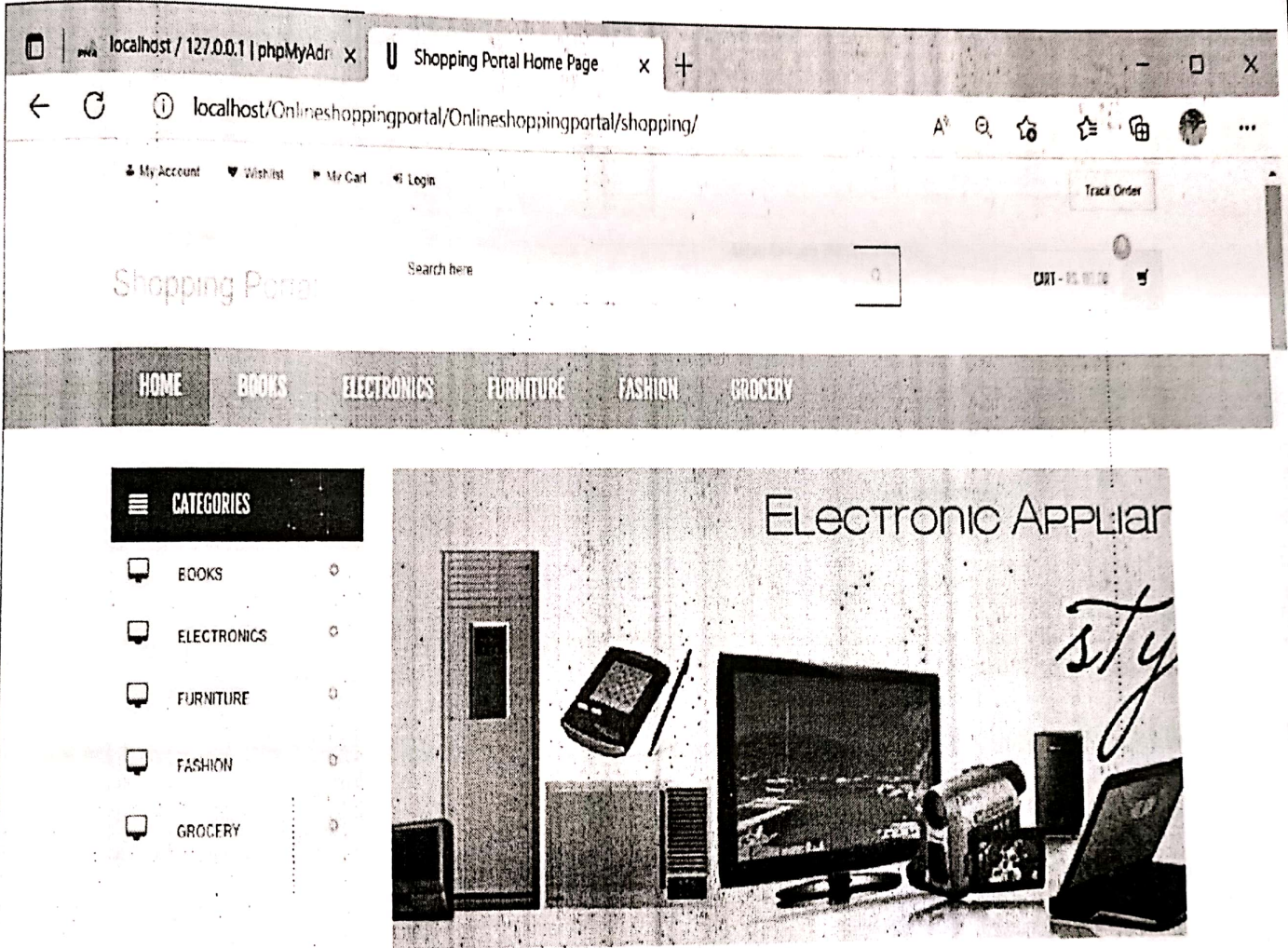
A User Interface, which is also called as “UI” or simply an “interface”. Is the means in which a person controls a software application or hardware device. A good User Interface provides a “User friendly” experience, allowing the user to interact with the software or hardware in a natural and intuitive way.

Output Screen –

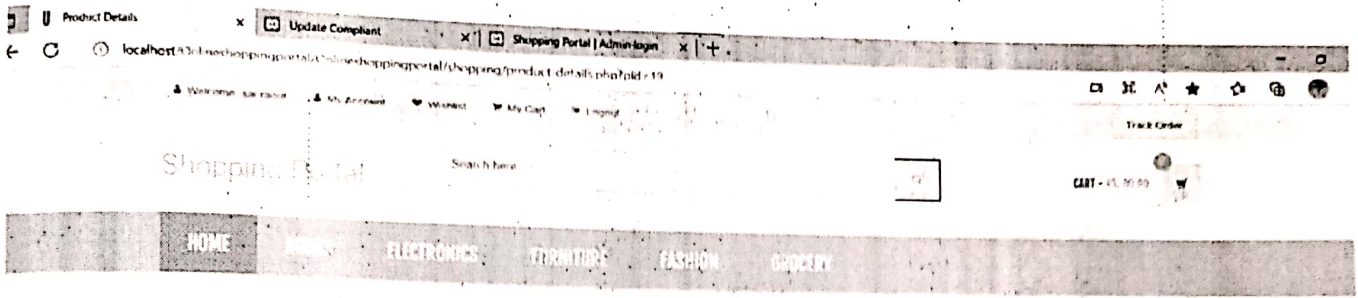
➤ Login Page:



> Home:



➤ Order Customer:



CATEGORY

- Books
- Electronics
- Furniture
- Fashions
- Grocery

HOT DEALS

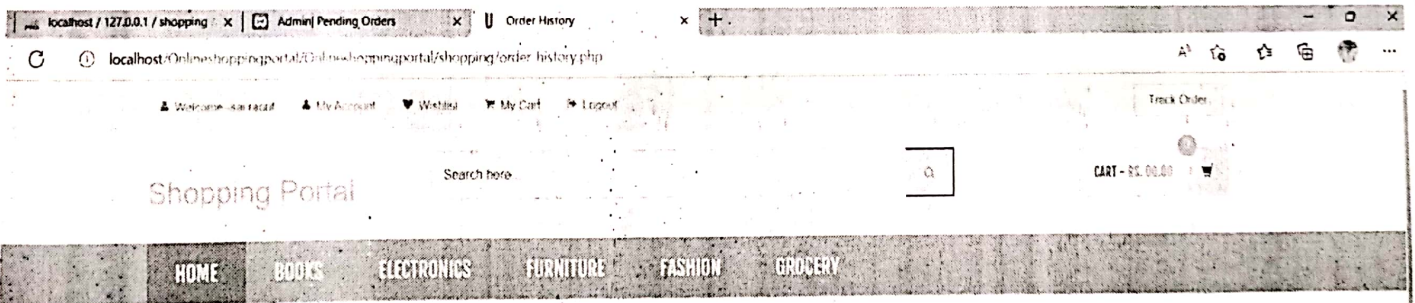


Asian Casuals (White, White)

AVAILABILITY: In Stock
 PRODUCT BRAND: Asian
 SHIPPING CHARGE: 4%

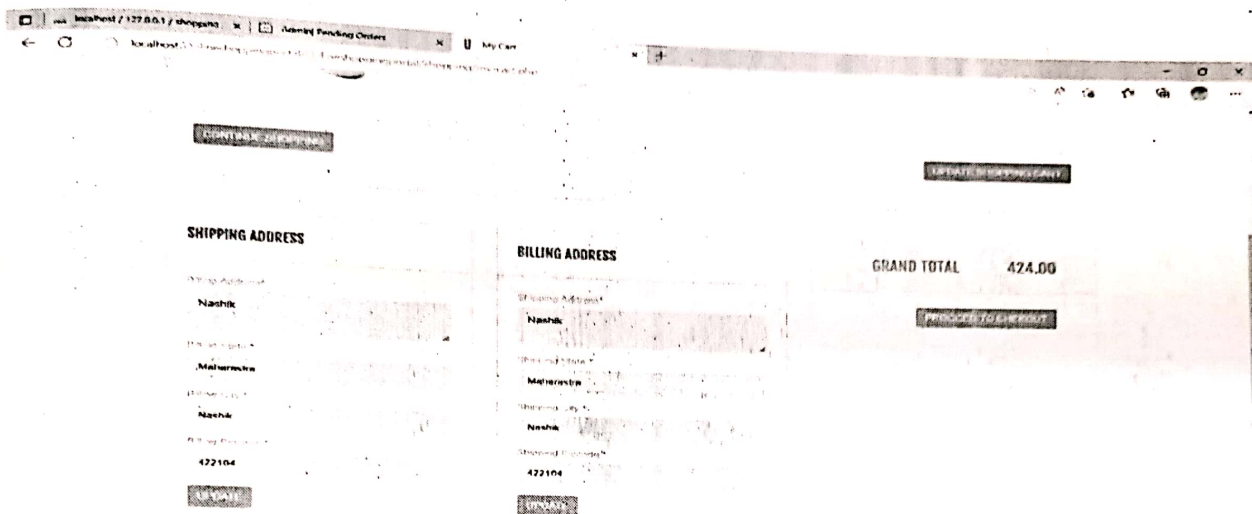
Rs. 379 Per 9

QTY: 1

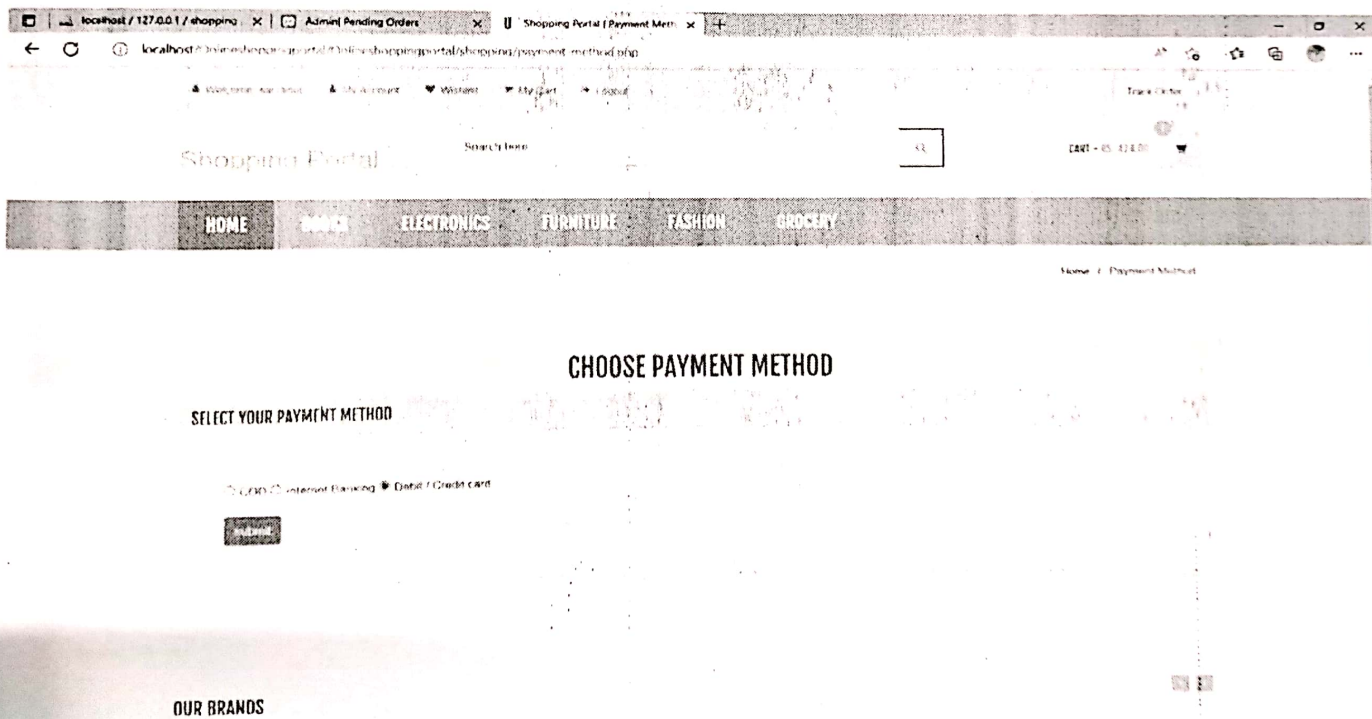


#	Image	Product Name	Quantity	Price Per unit	Shipping Charge	Grandtotal	Payment Method	Order Date	Action
1		ASIAN CASUALS (WHITE, WHITE)	1	379	4%	421	Debit / Credit card	2024-03-12 20:17:34	View

➤ Shipping Address:



➤ Payment:



➤ Shopping Cart:

Image	Product Name	Quantity	Price Per unit	Shipping Charge	Grandtotal	Payment Method	Order Date	Action
	ASIAN CASUALS (WHITE, WHITE)	1	370	45	424	Debit Credit card	2023-03-12 20:17:24	Track

➤ Delivered Order:

Update Order!

order Id: 7

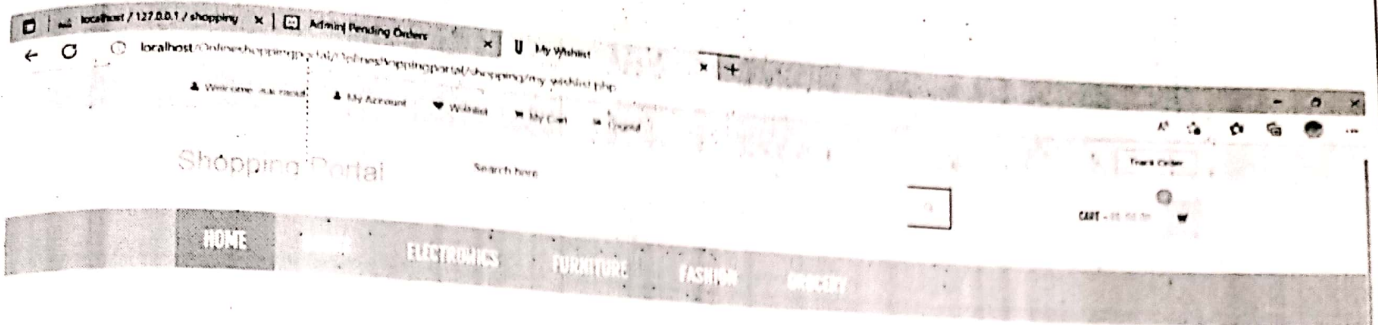
At Date: 2023-03-12 09:03:36

Status: Delivered

Remark: Order is Delivered

Product Delivered

➤ Wishlist:

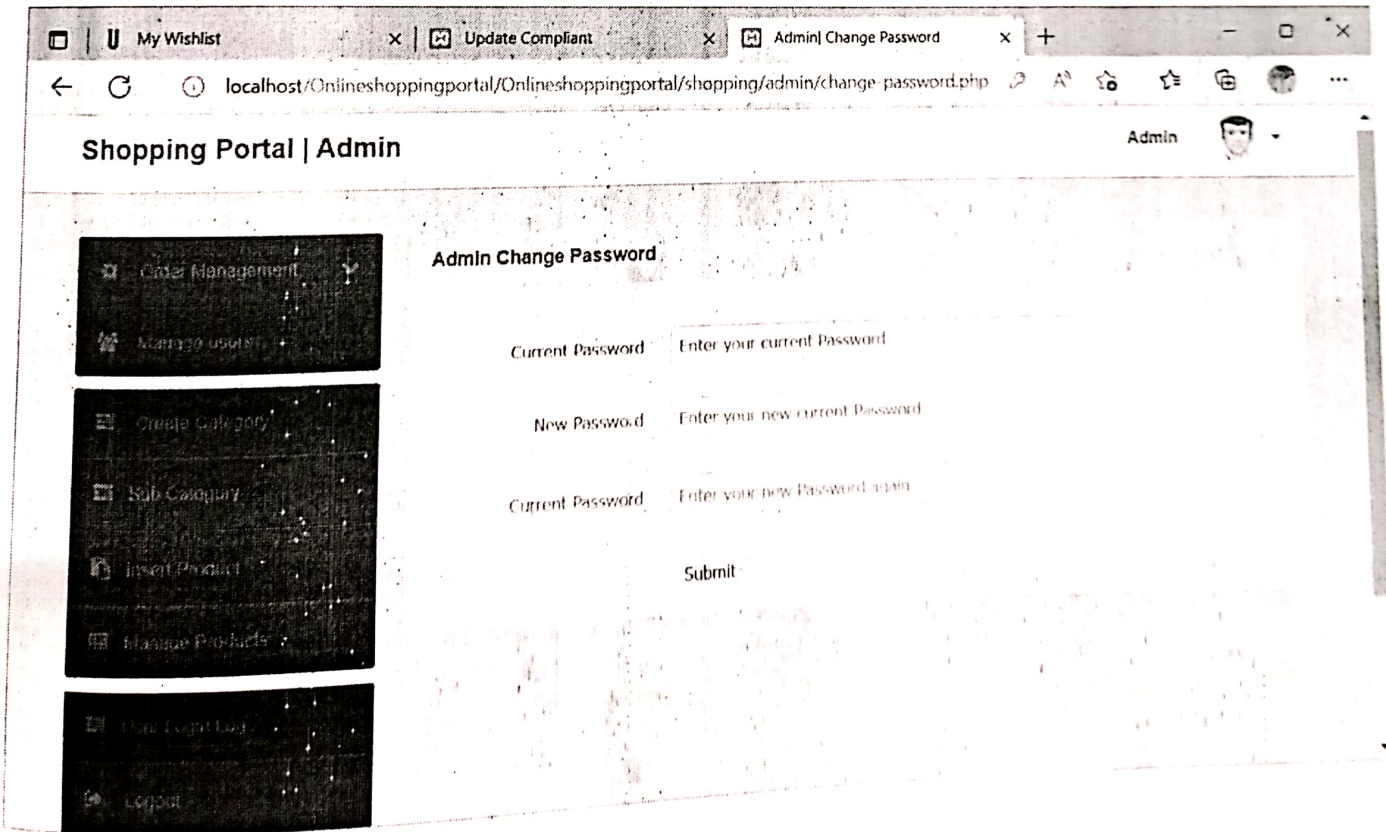


Micromax Canvas Laptab II (WiFi) Atom 4th Gen

Rs. 10999.00

ADD TO CART

➤ Change Password:



➤ Manage Categories:

Manage Categories

Show 10 entries

#	Category	Description	Creation date	Last Updated
1	Books	Test any	2017-01-25 03:47:37	30-01-2017 12:22:23 AM
2	Electronics	Electronic Products	2017-01-25 03:48:32	
3	Furniture	test	2017-01-25 03:48:54	
4	Fashion	Fashion	2017-01-25 03:49:09	
5	Grocery	Food, Vegetable, dry food, all home kitchen product	2023-03-12 08:44:23	

Showing 1 to 6 of 6 entries

Deprecated: strpos(): Passing null to parameter #1 (\$string) of type string is deprecated in /var/www/html/OnlineShoppingportal/OnlineShoppingportal/shopping/admin/category.php on line 132

➤ Manage Product:

Manage Products

Show 10 entries

#	Product Name	Category	Subcategory	Company Name	Product Creation Date	Action
1	The Werry Kid Do It Yourself Book	Books	Comics	ABC	2017-02-04 10:05:13	☑️
2	Tina Sillan and the Tropical Treasure	Books	Comics	XYZ	2017-02-04 10:05:23	☑️
3	C++, C#, Beautiful JavaScript	Books	Coding book	Aprax	2023-03-12 09:01:55	☑️
4	Micromax S1cm(32) HD Ready LED TV (D1617AMH) 9 x HDMI 2 x USB	Electronics	Television	Micromax test	2017-01-30 22:24:16	☑️
5	Apple iPhone 6 (Silver, 16 GB)	Electronics	Mobiles	Apple INC	2017-01-30 22:29:00	☑️
6	Redmi Note 4 (Gold, 32 GB) (With 3 GB RAM)	Electronics	Mobiles	Redmi	2017-02-04 09:33:15	☑️
7	Lenovo K5 Power (Silver, 32 GB)	Electronics	Mobiles	Lenovo	2017-02-04 09:34:43	☑️
8	Lenovo Vibe K5 Note (Gold, 32 GB)	Electronics	Mobiles	Lenovo	2017-02-04 09:34:57	☑️

> Insert Product:

Admin| Insert Product

localhost/Online-shoppingportal/Onlineshoppingportal/shopping/admin/insert-product.php

Insert Product

Category: Electronics

Sub Category: LED Television

Product Name: Samsung TV

Product Category: Samsung

Product Price (Retail): 9000

Product Price (Wholesale): 6000

Product Description: LED Smart TV

Product Delivery Charge: 500

Product Availability: In Stock

Product Image 1: No file chosen

Product Image 2: No file chosen

Product Image 3: No file chosen

Insert Product

Well done! Product Inserted Successfully !!

5. Implementation details

5.1 Software and hardware specification: -

Software: -

- (1) Google chrome (using runtime the project).
- (2) Notepad (used as editor).
- (3) Internet explorer (using runtime).
- (4) MsWord.
- (5) 64-bit Windows Operating System.

Hardware: -

- (1) HP Pavilion laptop (used as server).
- (2) DESKTOP-8M8NEI
- (3) Ram.
- (4) mouse.
- (5) keyboard.

6.Outputs and Report Testing

Test plan: -

The project test plan is a document that outlines for project stakeholders the product functions to be tested, what specific tests will be performed, the approach to be taken for those tests, what to test and what not to test, how the tests will be performed, who will be responsible for performing each test, what results are expected. Testing is vital to the success of the system. Testing is the process of executing a program with the explicit intention of finding errors that is making the program fail. The tester maybe an analyst, programmer or a specialist trained for software testing.

Black box testing: -

The black box is a powerful technique to check the application under test from the user's perspective. Black box testing is used to test the system against external factors responsible for software failures. This testing approach focuses on the input that goes into the software, and the output that is produced. The testing team does not cover the inside details such as code, server logic, and development method. Black box testing is based on the requirements and checks the system to validate against predefined requirements.

White box testing:

White box testing refers to a scenario where (as opposed to black box testing), the tester deeply understands the inner workings of the system or system component being tested. White box testing is a type of testing where the tester can see the code. The main purposes of this type of testing are to test the inner workings of the software, as well as strengthen its security, and improve its usability and design. This is also known as structural testing as the tester chooses which inputs to test and follows their paths through the software to reach their expected outputs. White box testing is used in the unit, integration and systems phases of software testing.

7. Conclusions

The 'Online Shopping' is designed to provide a web based application that would make searching, viewing and selection of a product easier. The search engine provides an easy and convenient way to search for products where a user can Search for a product interactively and the search engine would refine the products available based on the user's input. The user can then view the complete specification of each product. They can also view the product reviews and also write their own reviews. Use of Ajax components would make the application interactive and prevents annoying post backs. Its drag and drop feature would make it easy to use.

8.Future Scope

The following things can be done in future.

- The current system can be extended to allow the users to create accounts and save products in to wish list.
- The users could subscribe for price alerts which would enable them to receive messages when price for products fall below a particular level.
- The current system is confined only to the shopping cart process. It can be extended to have an easy to use check out process.
- Users can have multiple shipping and billing information saved. During checkout they can use the drag and drop feature to select shipping and billing information.

9. Bibliography and References:

- (1) www.google.com
- (2) www.wikipedia.com
- (3) www.w3school.com
- (4) www.Onlineshopping.com