ONLINE E-COMMERCE WEBSITE

A Project Report

Submitted in partial fulfillment of the

Requirement for the award of the Degree of

BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)

By

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JMF's VANDE MATARAM DEGREE COLLEGE OF SCIENCE & COMMERCE

(Affiliated to University of Mumbai)

Dombivali,421201

Maharashtra

2021-2022

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DOMBIVALI-MAHARASHTRA-PINCODEDEPARTMENT OF INFORMATION TECHNOLOGY

CERTIFICATE

This is to certify that the project entitled, **"ONLINE E-COMMERCE WEBSITE",** is bonafied work of **SAGAR S. JADHAV**

Bearing Seat no. 3023864: **(** submitted in partial fulfillment of the requirements for the award of degree of BACHELOR OF SCIENCE in INFORMATION TECHNOLOGY from University of Mumbai.

Internal Guide **Co-ordinator**

Date: **College Seal**

Principal's Signature **External Examiner**

PROFORMA FOR THE APPROVAL PROJECT PROPOSAL

(Note: All entries of the proforma of approval should be filled up with appropriate and complete information. Incomplete proforma of approval in any respect will be summarily rejected.)

PNR No.: …….. Roll no.:___

1. Name of the Student

   Sagar Sanjay Jadhav

2. Title of the Project

   Online Ecommerce Website Hardware Shop

3. Name of the Guide

   Rajkumari Bande

4. Teaching experience of the Guide 8 years

5. Is this your first submission? Yes ☐ No ☐

Signature of the Student Signature of the Guide

Date …… Date……

Signature of the Coordinator Date……

DECLARATION

I hereby declare that the project entitled the **"ONLINE COMPUTER HARDWARE STORE**

" done at "**Vande Mataram Degree College of Science &Commerce"** has not been in any case duplicated to submit to any other university for the award of any degree. According to me, yet nobody have been submitted this project in university.

The project is done in partial fulfilment of the requirements for the award of degree of **BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)** to be submitted as Semester- 5/6 project as a part of curriculum.

Sagar S. Jadhav

ABSTRACT

In today's fast-changing business environment, it's extremely important to be able to respond to client needs in the most effective and timely manner. If your customers wish to see your business online and have instant access to your products or services.

Online Electronics Shopping is the norm these days. There are lot of successful websites such as BigBasket.com, askmeElectronics.com etc in this space. Purpose of Online Electronics Shopping system is to allow customer to shop virtually using internet. Computerization of online store will increase the ease, efficiency and reduce the chances of manual errors. With the popularity of PCs, and mobiles easy access to Internet and World Wide Web (WWW), Internet is increasingly used by consumers & vendors as a channel for shopping, payment & other operations.

ACKNOWLEDGEMENT

A project is a creative work for each and everyone. A proper synchronization between the team members is must for completing the project successfully. I would like to extend my gratitude to, our **Principal Dr. Rajkumar Kolhe Sir** and all the staffs of our **Vande Mataram Degree College of Science and Commerce** for providing us moral support, conductive work environment which was needed to complete this project.

I would also like to thanks our Course Co-ordinator **Prof._____** and all the faculties of IT Department for giving us the most needed guidance and continuous encouragement throughout the duration of the project and without them it would not have been possible to accomplish this project.

I am also extremely thankful to the **University of Mumbai** for having prescribed this project work to me as a part of the academic requirement in the final year of **Master of Science in Information Technology.**

Finally, I would like to thanks my group members and other friends who have been helped us to reach our project in a good state.

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Chapter 1: INTRODUCTION

1.1 Background :

Computer hardware (usually simply called **hardware** when a computing context is concerned) is the collection of physical elements that constitutes a computer system. Computer hardware is the physical parts or components of a computer, such as the monitor, mouse, keyboard,computer data storage, hard disk drive (HDD), graphic cards, sound cards, memory, motherboard, and so on, all of which are physical objects that are tangible. In contrast, software is instructions that can be stored and run by hardware.Software is any set of machine-readable instructions that directs a computer's processor to perform specific operations. A combination of hardware and software forms a usable computing system.

Computer hardware is a collective term used to describe any of the physical components of an analog or digital computer. The term *hardware* distinguishes the tangible aspects of a computing device from software, which consists of written instructions that tell physical components what to do.

Computer hardware can be categorized as having either internal or external components. Internal components include items such as the motherboard, central processing unit (CPU), random access memory (RAM), hard drive, optical drive, heat sink, power supply, transistors, chips, graphics processing unit (GPU), network interface card (NIC) and Universal Serial Bus (USB) ports. These components collectively process or store the instructions delivered by the program or operating system (OS).

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heat sink, power supply, transistors, chips, graphics processing unit (GPU), network interface card (NIC) and Universal Serial Bus (USB) ports. These components collectively process or store the instructions delivered by the program or operating system (OS).

Hardware refers to the tangible aspects of a computing device that are needed to store and run the software. The hardware is the delivery system for the written instructions provided

by the software. The software lets the user interact with the hardware, commanding it to perform specific tasks.

Types of hardware :

Types of hardware include the following:

The hardware of the computer system includes monitor, CPU, keyboard, mouse, printer, sound system, RAM, hard disk and many more. Hardware is **used for taking input data from the user**, store the data and display the output and execute the commands given by an individual.

There are many types of hardware devices present in the market. Choosing the right hardware device with the correct specification gives the best performance result. The hardware devices vary in size, specification and it should be chosen as per the compatibility of the computer system. Different type of hardware device has a different role. And a complete set of hardware devices makes an effective computer system.

➢ Motherboard:

The  motherboard is the computer's central communications backbone connectivity point through which all components and external peripherals connect. The motherboard is the main printed circuit board in a computer. Also called the *mainboard*, the motherboard holds important components, including the CPU, RAM, power supply, graphics card and sound card.

➢ CPU:

A processor is **an integrated electronic circuit that performs the calculations that run a computer**. A processor performs arithmetical, logical, input/output (I/O) and other basic instructions that are passed from an operating system (OS). Most other processes are dependent on the operations of a processor. .The CPU is responsible for processing most of the computer's data, turning input into output.

Processors are found in many modern electronic devices, including PCs, smartphones, tablets, and other handheld devices. Their purpose is to receive input in the form of program instructions and execute trillions of calculations to provide the output that the user will interface with.

➢ RAM:

The hardware in a computer where the OS, application programs and data that are being used are kept so the device's processor can quickly reach them. As the main memory of a computer, RAM is much faster to read from and write to than other types of storage, including a hard

disk drive), solid-state drive (SSD) and optical drive. RAM is volatile, meaning that data remains in RAM if the computer is on, but it's lost when the computer is turned off. The OS and other files are reloaded into RAM, usually from an SSD or HDD, when the computer is rebooted.

➢ Display screen:

A display screen may be an external monitor, or it may be built into the computer. A touchscreen display is sensitive to pressure. As such, a user interacts with the device by touching pictures or words on the screen.

➢ **HDD:** A nonvolatile memory (NVM) hardware device, an HDD stores OS files, application problems, media and other documents. The HDD can store data permanently even in the event of a power failure.

➢ SSD:

A type of nonvolatile storage device that stores persistent data on solid-state flash memory. An SSD consists of a flash controller and NAND flash memory Unlike an HDD, an SSD doesn't have any moving parts. SSDs use flash-based memory, which is significantly faster than traditional mechanical hard disks. Since they're nonmechanical, SSDs use less power, which means longer battery life when they're built into laptop computers.

➢ Graphics card:

Responsible for rendering graphics in a computer and projecting information onto a screen, a graphics card aims to remove the processing strain from the processor or RAM.

- **Removable drives:** Any type of storage device that can be removed from a computer while the system is running, including USB cards and optical discs, such as compact discs (CDs), Blu-ray discs and digital versatile discs (DVDs).

1.2 Objectives

- The main goal of our website is to provide the best service to the customer.
- Customer can buy computer parts online
- All the goods will be delivered home to the customer, it will save his time.
- Product will be delivered at home to the customer with warranty and best packaging.
- New original products will be available and prebuilt packs will also be available
- Only new and genuine parts will be provided to the customer.

1.3 Purpose and Scope

1.3.1 Purpose:

A computer hardware store project consisting an efficient hardware inventory management system. This system is a web project used to manage a stock of various hardware projects in the backend and users may buy it online.

1.3.2. Scope:

This system can be implemented to any shop in the locality or to multinational branded shops having retail outlet chains. The system recommends a facility to accept the orders 24*7 and a home delivery system which can make customers happy.

If shops are providing an online portal where their customers can enjoy easy shopping from anywhere, the shops won't be losing any more customers to the trending online shops such as flipcart or ebay. Since the application is available in the Smartphone it is easily accessible and always available.

➢ Advantages

- User can view details of the parts without going anywhere
- It is convenient for users as this system provides accurate cost and description of the system
- The website is flexible to be used and for e-shopping
- User can view different categories of product of different brands at a single place
- The products are delivered to the customer in his/her house so this becomes more convenient for them.
- The system calculates bill instantly and user can pay online
- Hence the system saves time, efforts and cost
- It can be used by any retail shopkeeper of hardware to extend their business online
- The system can be applied to promote different brands online

➢ Disadvantages

- The user cannot view the product in person
- There is no human interaction
- There can be fraud and security problems

CHAPTER 2 : SURVEY OF TECHNLOGIES

Existing system:

- Existing process is manual process. Manual process requires more man power.
- Going from one shop from another can be exhausting and time consuming.
- Sometimes, you spend hours roaming around looking for a dress, but you don’t find anything.
- Sometimes, malls and markets are so crowded that you can barely walk.

Proposed system:

- Our Proposed system is a web application. In this You can shop at any time of the day. The online shopping store is at your service 24/7.
- With online shopping, you have access to a wide range of products. From clothes and shoes to household necessities, everything is just a click away.
- No cash? From PayPal and Google Pay to credit and debit card, there are plenty of other ways to pay online.

There are plenty of filters available to narrow down your search to what exactly you need. Convenient, isn't it?

CHAPTER 3: REQUIREMENTS AND ANALYSIS

REQUIREMENTS AND ANAYLISIS

Problem Definition:

- This Project provides and alternative (online shopping) over the traditional offline shopping.

- Shopping on the Internet offers convenience and time-saving benefits to shoppers, as compared to shopping in traditional brick-and-mortar stores.

- Changing consumer lifestyles and lack of time may make it more difficult for consumers to shop at physical locations such as stores and shopping malls

- Shopping on the Internet addresses this problem as shoppers can shop in the comfort and convenience of home.

- Results of the MasterCard Survey 'Internet Shopping' (1996) revealed that consumers viewed the Internet as an "Instrument of Convenience".

Problems Regarding traditional offline shopping are given below:

1. Going from one shop to another can be exhausting and time-consuming. Sometimes, you spend hours roaming around looking for a dress, but you don't find anything.

2. Discounts and offers are given only for a short period. You probably won't get as big a discount on an item as you can on an online website.

3. Sometimes malls and markets are so crowded that you can barely walk. Imagine being dragged along if you hate crowded places and sweaty people (a nightmare).

System analysis is the process of gathering and interpreting facts, diagnosing problems and using the information to recommend improvements on the system.

System analysis is a problem solving activity that requires intensive communication between the system users and system developers.

System analysis or study is an important phase of any system development process. The system is viewed as a whole, the inputs are identified and the system is subjected to close study to identify the problem areas. The solutions are given as a proposal. The proposal is reviewed on user request and suitable changes are made. This loop ends as soon as the user is satisfied with the proposal.

3.3 SYSTEM REQUIREMENT

3.3.1 GENERAL DESCRIPTION

- **Product Description:**

The system consists of two parts .A web application which can provide the online shopping service and an android application for the customer to access the web service from his Smartphone. Web application should be able to help the customer for selecting his item and to help the owner in managing the orders from the customers.

- **Problem Statement:**

As online shopping became a trend nowadays the regular shops are losing their customers to online brands. Customers have effortless shopping experience and saving time through shopping online. For competing with those online brands , If shops are providing an online portal where their customers can shop through internet and get the products at their doors it will increase the number of customers.

3.3.2 SYSTEM OBJECTIVES

- To provide an android application for online shopping of products in an existing shop.
- To provide a online shopping web site for the same shop.

3.4 NON FUNCTIONAL REQUIREMENTS

i. EFFICIENCY REQUIREMENT

When an online shopping cart android application implemented customer can purchase product in an efficient manner.

ii. RELIABILITY REQUIREMENT

The system should provide a reliable environment to both customers and owner. All orders should be reaching at the admin without any errors.

iii. USABILITY REQUIREMENT

The android application is designed for user friendly environment and ease of use.

iv. IMPLEMENTATION REQUIREMENT

Implementation of the system using css and html in front end. And the database part is developed by mysql. Responsive web designing is used for making the website compatible for any type of screen.

Software And Hardware Requirements:

Software Requirements:

- **OS**: Windows/Unix/Linux
- **Database**: MySQL (Free-Open source)
- **Server**: Tomcat Server/Glashfish Server (Free-Open source)
- **Language**: Html/Css/JavaScript/Bootstrap(Free-Open source)
- **Front end**: Browser with support for Javascript
- **Back end**: PHP/MySQL(Free-Open source)

Hardware Components:

- Processor – Dual Core
- Hard Disk – 50 GB
- Memory – 1GB RAM
- Mouse – Any Standard
- Keyboard – Any Standard
- Monitor – Any color monitor
- Local Area Network Preferable

3.7 JUSTIFICATION:

- 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.
- Buyer can buy products online from anywhere.
- It will increase job opportunities.
- It is easy to use.
- It’s save time.

CHAPTER 4 : SYSTEM DESIGN

System design is the solution for the creation of a new system. This phase focuses on the detailed implementation of the feasible system. It emphasis on translating design. Specifications to performance specification. System design has two phases of development ¬ Logical design ¬ Physical design During logical design phase the analyst describes inputs (sources), output s(destinations), databases (data sores) and procedures (data flows) all in a format that meets the user requirements. The analyst also specifies the needs of the user at a level that virtually determines the information flow in and out of the system and the data resources. Here the logical design is done through data flow diagrams and database design. The physical design is followed by physical design or coding. Physical design produces the working system by defining the design specifications, which specify exactly what the candidate system must do. The programmers write the necessary programs that accept input from the user, perform necessary processing on accepted data and produce the required report on a hard copy or display it on the screen.

4.1 DATABASE :

- **DATABASE DESIGN :**

Databases are the storehouses of data used in the software systems. The data is stored in tables inside the database. Several tables are created for the manipulation of the data for the system. Two essential settings for a database are

- Primary key - The field that is unique for all the record occurrences.
- Secondary key - The field used to set relation between tables.

Normalization is a technique to avoid redundancy in the table.

4.2 TABLES :

- **LOGIN :**

login

Field Name	Field Type	Default	AllowNull	PriKey	Extra
uid	int(11) FIRST		NO	YES	auto_increment
uname	varchar(50) AFTER `uid`		NO	NO	
upass	varchar(50) AFTER `uname`		NO	NO	
utype	varchar(20) AFTER `upass`		NO	NO	
enabled	varchar(10) AFTER `utype`		NO	NO	

- **USER DETAILS :**

userdetails

Field Name	Field Type	Default	AllowNull	PriKey	Extra
uid	int(11) FIRST		NO	YES	
uloginname	varchar(50) AFTER `uid`		NO	NO	
uemailid	varchar(100) AFTER `uloginname`		NO	NO	
umobno	varchar(30) AFTER `uemailid`		NO	NO	

PRODUCT DETAILS :

product_details

Field Name	Field Type	Default	AllowNull	PriKey	Extra
id	int(11) FIRST		NO	YES	auto_increment
name	varchar(100) AFTER `id`		NO	NO	
description	varchar(500) AFTER `name`		YES	NO	
price	varchar(50) AFTER `description`		YES	NO	
photo	varchar(100) AFTER `price`		YES	NO	

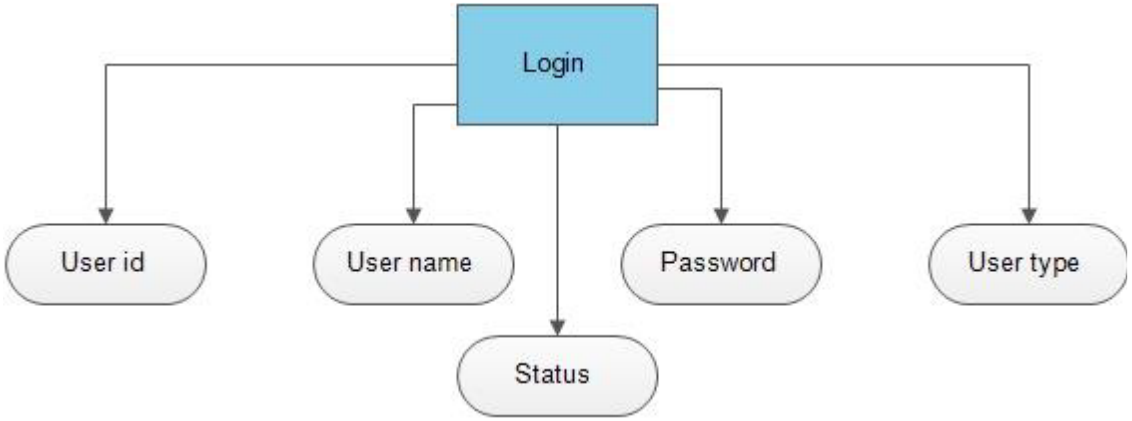
- **PRODUCT ORDERS :**

product_orders

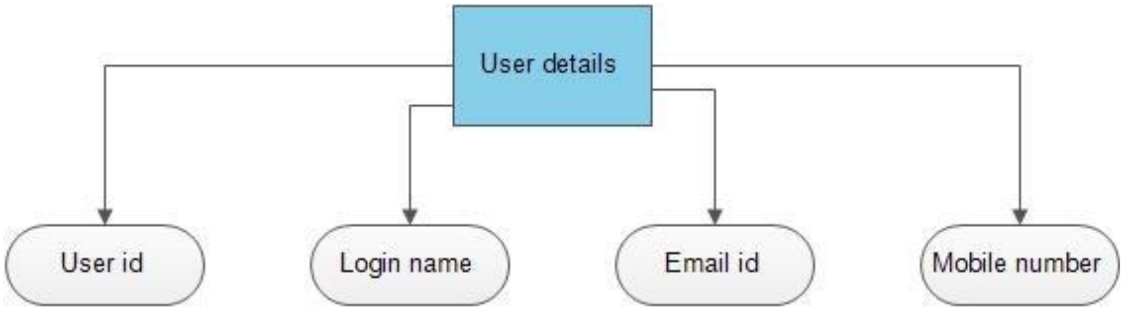
Field Name	Field Type	Default	AllowNull	PriKey	Extra
id	int(11) FIRST		NO	YES	auto_increment
product_id	int(11) AFTER `id`		NO	NO	
user_id	int(11) AFTER `product_id`		NO	NO	
deliver_address	varchar(500) AFTER `user_id`		YES	NO	

4.3 E-R DIAGRAMS :

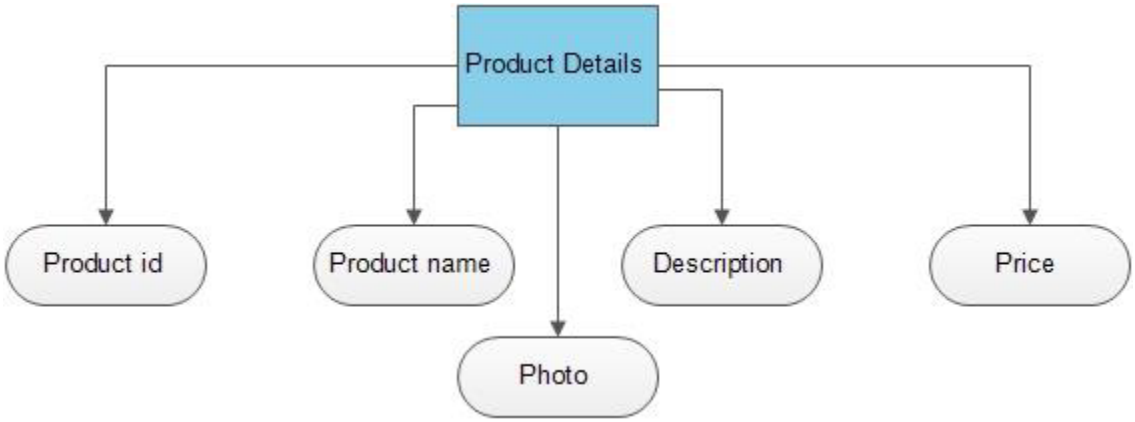
- **LOGIN :**



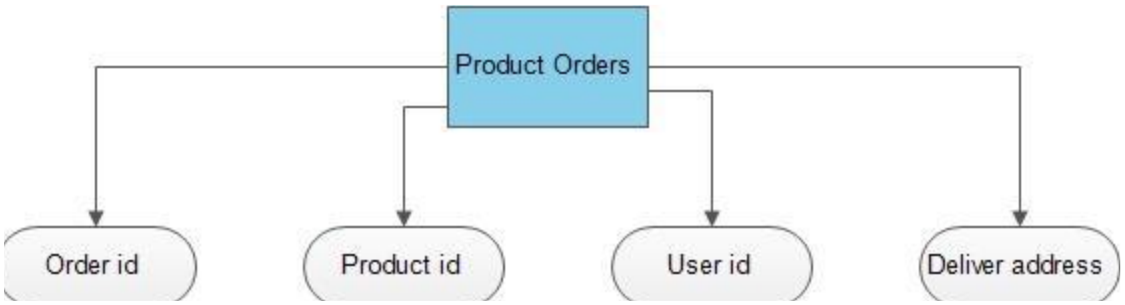
- **USER DETAILS :**



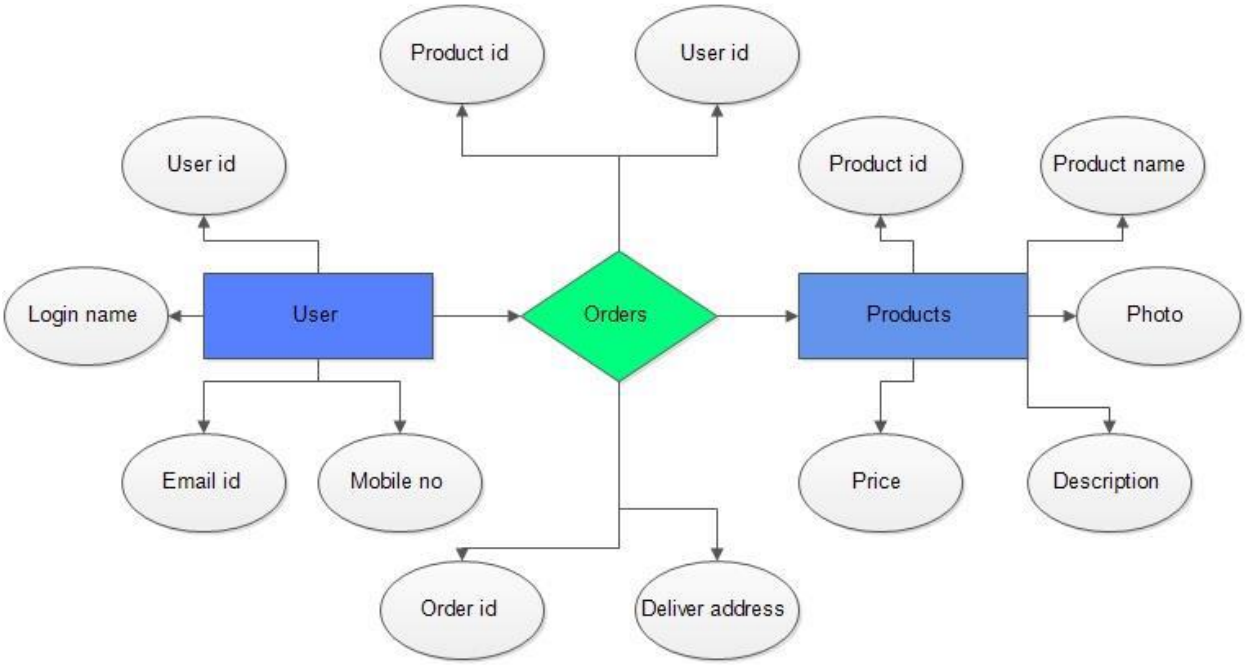
- **PRODUCT DETAILS :**



- **PRODUCT ORDERS :**



- **COMPLETE DIAGRAM :**



4.4 DATA FLOW DIAGRAM :

A Data Flow Diagram (DFD) is a structured analysis and design tool that can be used for flowcharting. A DFD is a network that describes the flow of data and the processes that change or transform the data throughout a system. This network is

constructed by using a set of symbols that do not imply any physical implementation. It has the purpose of clarifying system requirements and identifying major transformations. So it is the starting point of the design phase that functionally decomposes the requirements specifications down to the lowest level of detail. DFD can be considered to an abstraction of the logic of an information-oriented or a process-oriented system flow-chart. For these reasons DFD's are often referred to as logical data flow diagrams.

- **EXTERNAL ENTITY :**

An external entity is a source or destination of a data flow. Only those entities which originate or receive data are represented on a data flow diagram. The symbol used is a rectangular box.

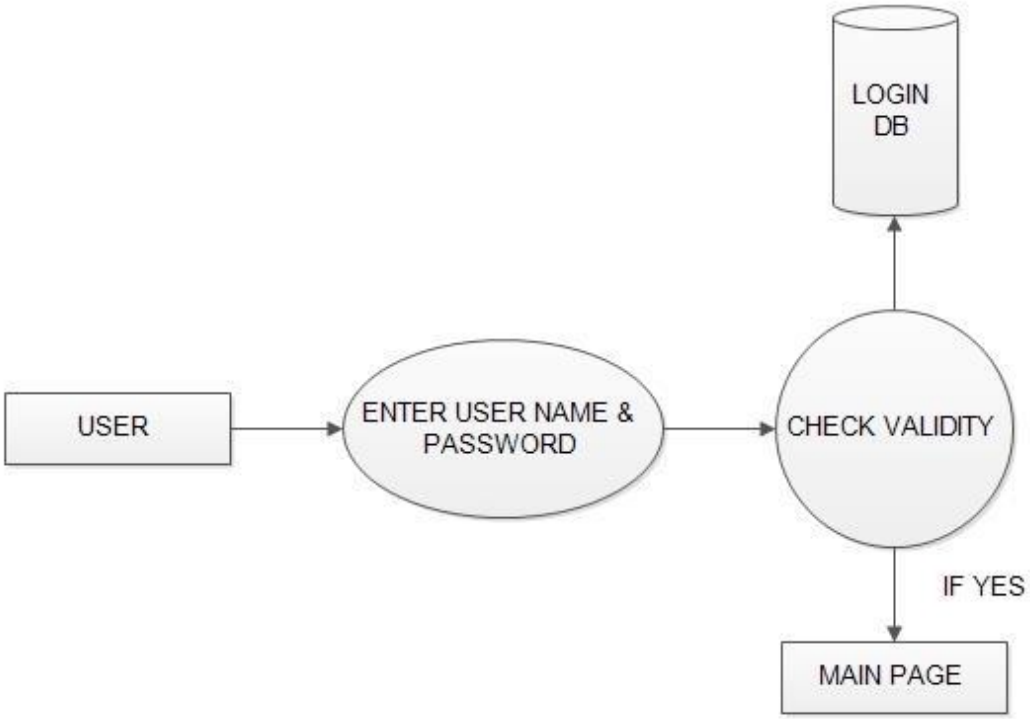
- **PROCESS :**

A process shows a transformation or manipulation of data flow within the system. The symbol used is an oval shape.

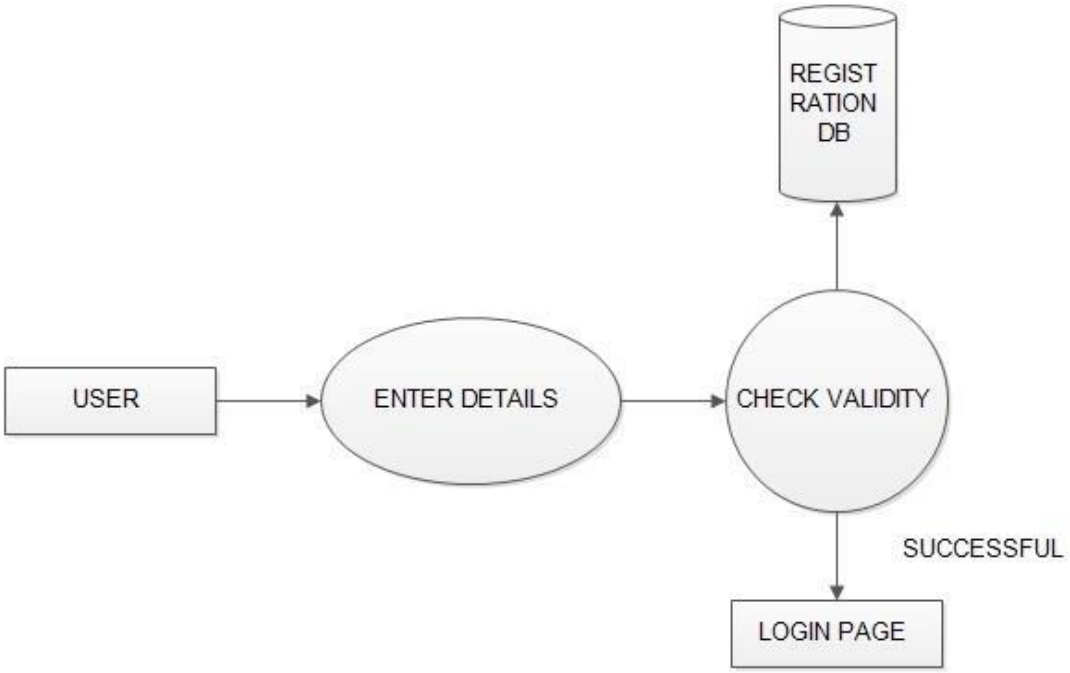
- **DATAFLOW :**

The data flow shows the flow of information from a source to its destination. Data flow is represented by a line, with arrowheads showing the direction of flow. Information always flows to or from a process and may be written, verbal or electronic. Each data flow may be referenced by the processes or data stores at its head and tail, or by a description of its contents.

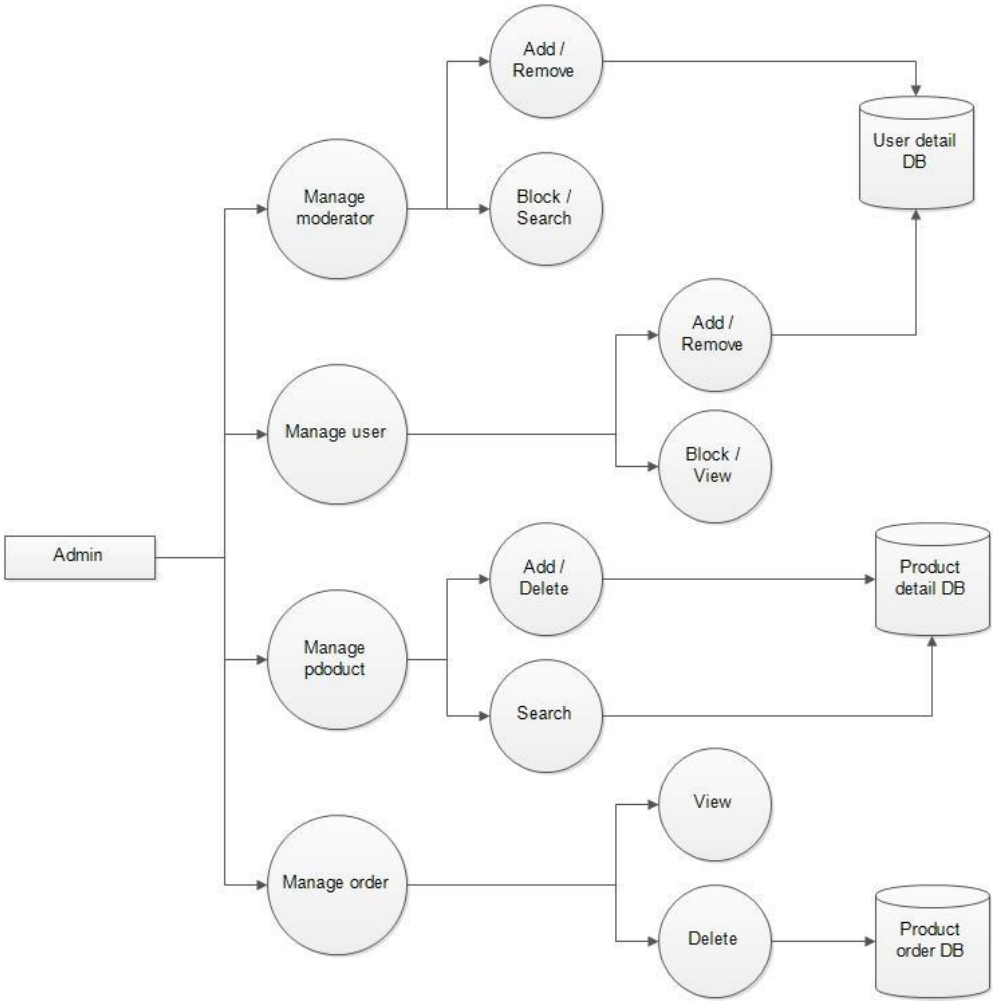
- **LOGIN DFD :**


LOGIN
DB
USER
ENTER USER NAME &
PASSWORD
CHECK VALIDITY
IF YES
MAIN PAGE

➢ REGISTRATION DFD :



➢ ADMIN DFD :


Add / Remove
User detail DB
Manage moderator
Block / Search
Add / Remove
Manage user
Block / View
Admin
Add / Delete
Product detail DB
Manage pdoduct
Search
View
Manage order
Delete
Product order DB

CHAPTER 5

IMPLEMENTATION & TESTING

IMPLEMENTATION APPROACH

Method which will be used for "ONLINE E-COMMERCE WEBSITE" is"AGILE DEVELOPMENT MODEL".

The Agile model was primarily designed to help a project to adapt to change requests quickly. So, the main aim of the Agile model is to facilitate quick project completion. To accomplish this task agility is required. Agility is achieved by fitting the process to the project, removing activities that may not be essential for a specific project. Also, anything that is wastage of time and effort is avoided.

We have implemented this model in our project because our project's requirement is Quick Development and adapt changes request quickly.

Different phases of AGILE model includes:

1.Requirement gathering: In this phase, you must define the requirements. You should explain business opportunities and plan the time and effort needed to build the project. Based on this information, you can evaluate technical and economic feasibility.

2.Design the Requirements: When you have identified the project, work with stakeholders to define requirements. You can use the user flow diagram or the high-level UML diagram to show the work of new features and show how it will apply to your existing system.

3.Construction/ iteration: When the team defines the requirements, the work begins. Designers and developers start working on their project, which aims to deploy a working product. The product will undergo various stages of improvement, so it includes simple, minimal functionality.

4.Testing: In this phase, the Quality Assurance team examines the product's performance and looks for the bug.

5.Deployment: In this phase, the team issues a product for the user's work environment.

6.Feedback: After releasing the product, the last step is feedback. In this, the team receives feedback about the product and works through the feedback.

CODING DETAILS & CODE EFFICIENCY

Home.html

```
<!DOCTYPE html>

<html lang="en">

<head>

   <meta charset="UTF-8">

   <meta http-equiv="X-UA-Compatible" content="IE=edge">

   <meta name="viewport" content="width=, initial-scale=1.0">

   <title>Complete Responsive Food Website Design Tutorial</title>

      <link rel="stylesheet" href="https://unpkg.com/swiper/swiper-bundle.min.css" />

      <!-- font awesome cdn link  -->

   <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.15.3/css/all.min.css">

      <!-- custom css file link  -->

   <link rel="stylesheet" href="css/style1.css">

</head>

<body>

   <!-- header section starts      -->

      <header>
```

```
    <a href="#" class="logo"><i class="fas fa-laptop "></i>.</a>
    <nav class="navbar">
        <a class="active" href="#home">home</a>
        <a href="#laptop">laptop & computer</a>
        <a href="#about">about</a>
        <a href="#menu">laptop accessories</a>
        <a href="#review">review</a>
        <a href="#order">order</a>
    </nav>
    <div class="icons">
        <i class="fas fa-bars" id="menu-bars"></i>
        <i class="fas fa-search" id="search-icon"></i>
        <a href="#" class="fas fa-heart"></a>
        <a href="#" class="fas fa-shopping-cart"></a>
    </div>
</header>
    <!-- header section ends-->
    <!-- search form  -->
<form action="" id="search-form">
    <input type="search" placeholder="search here..." name="" id="search-box">
```

```
      <label for="search-box" class="fas fa-search"></label>
      <i class="fas fa-times" id="close"></i>
   </form>
<!-- home section starts  -->
<section class="home" id="home">
   <div class="swiper-container home-slider">
      <div class="swiper-wrapper wrapper">
         <div class="swiper-slide slide">
            <div class="content">
               <br><br><span>Deals of the Day</span><br><br>
               <br><h3>HP Pavilion</h3><br><br>
               <br><p>HP Pavilion 14, Intel 11th Gen i5 16GB RAM/512GB SSD 14 inch(35.6 cm) Laptop, FHD IPS Anti-Glare Display/Iris X
               Graphics/Backlit KB/B&O Audio/Fingerprint Reader/Win 11/Thin & Light/1.41kg, 14-dv1001TU</p><br><br>
               <br><a href="file:///C:/Users/sagar/OneDrive/Desktop/New%20folder%20(2)/sagar%20project/order%20form.html" class="btn">order now</a><br><br><br><br>
            </div>
            <div class="image">
               <br><br><br><br><img src="images1/home-img-1.jpg" alt=""><br><br><br><br>
            </div>
         </div>
```

```
        <div class="swiper-slide slide">

          <div class="content">

            <br><br><span>Deals of the Day</span><br><br>

            <br><h3>MacBook Air Laptop</h3><br><br>

            <br><p>Apple M1 chip, 13.3-inch/33.74 cm Retina Display, 8GB RAM, 512GB SSD Storage,
Backlit

            Keyboard, FaceTime HD Camera, Touch ID. Works with iPhone/iPad;
Gold</p><br><br><br>

            <br><a
href="file:///C:/Users/sagar/OneDrive/Desktop/New%20folder%20(2)/sagar%20project/order%20f
orm.html" class="btn">order now</a><br><br><br><br><br><br>

          </div>

          <div class="image">

            <br><br><br><br><br><br><img src="images1/home-img-2.jpg"
alt=""><br><br><br><br><br><br><br><br><br><br>

          </div>

        </div>

        <div class="swiper-slide slide">

          <div class="content">

            <br><br><span>Deals of the Day</span><br><br>

            <br><h3>Dell 2in1 Laptop </h3><br><br>
```

```
            <br><p>Dell New 14" 2in1 Laptop i5-1155G7, 8GB, 512GB SSD, Win 10 + MS Office, 14.0" (35.56 cms) Touch FHD Display, Backlit KB,

            FPR + Active Pen, Platinum Silver (Inspiron 5410, D560594WIN9S)</p><br><br>

            <br><a href="file:///C:/Users/sagar/OneDrive/Desktop/New%20folder%20(2)/sagar%20project/order%20form.html" class="btn">order now</a><br><br><br><br>

          </div>

          <div class="image">

            <br><br><br><br><img src="images1/home-img-3.jpg" alt=""><br><br><br><br>

          </div>

        </div>

      </div>

    </div>

</section>

<!-- home section ends -->

<!-- product section starts  -->

<section class="laptop" id="laptop">

   <h3 class="sub-heading">our laptop & computer</h3>

   <h1 class="heading">latest laptop & computer</h1>

   <div class="box-container">

      <div class="box">

         <a href="#" class="fas fa-heart"></a>
```

```
        <a
href="file:///C:/Users/sagar/OneDrive/Desktop/New%20folder%20(2)/sagar%20project/product.ht
ml#" class="fas fa-eye"></a>

        <img src="images1/lap-1.jpg" alt="">

        <h3>Lenovo Ideapad</h3>

        <p>Lenovo IdeaPad Slim 1 Intel Celeron N4020 11.6" (29.46cm) HD Thin & Light Laptop
(4GB/256 GB SSD/Windows 10/MS

        Office/Platinum Grey/1.2Kg), 81VT0071IN</p>

        <div class="stars">

          <i class="fas fa-star"></i>

          <i class="fas fa-star"></i>

          <i class="fas fa-star"></i>

          <i class="fas fa-star"></i>

          <i class="fas fa-star-half-alt"></i>

        </div>

        <span>₹54,990

        </span>

        <a
href="file:///C:/Users/sagar/OneDrive/Desktop/New%20folder%20(2)/sagar%20project/order%20f
orm.html" class="btn">add to cart</a>

      </div>

      <div class="box">

        <a href="#" class="fas fa-heart"></a>
```

****

<img src="images1/lap-2.jpg" alt="">

<h3>HP Computer</h3>

** HP All-in-One 21.5-Inch(54.6 cm) FHD with Alexa Built-in (Celeron J4025/4GB/1TB HDD/Win 10/MS Office 2019/Jet Black),**

**22-df0201in **

** **

****

****

****

****

****

** **

₹1,25,900

```
<script src="https://unpkg.com/swiper/swiper-bundle.min.js"></script>

   <!-- custom js file link  -->
   <script src="js/script1.js"></script>
</body>
</html>
```

Product.html

```
<!DOCTYPE html>
```

```
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=, initial-scale=1.0">
   <title>Complete Responsive Food Website Design Tutorial</title>

   <link rel="stylesheet" href="https://unpkg.com/swiper/swiper-bundle.min.css" />

   <!-- font awesome cdn link  -->
   <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.15.3/css/all.min.css">

   <!-- custom css file link  -->
   <link rel="stylesheet" href="css/style1.css",>
</head>
<body>
   <!-- header section starts      -->

   <header>

      <a href="#" class="logo"><i class="fas fa-laptop "></i>pcoint.</a>

      <nav class="navbar">
         <a class="active"
href="file:///C:/Users/sagar/OneDrive/Desktop/New%20folder%20(2)/sagar%20project/i1.html#home">
home</a>
         <a href="#laptop">laptop & computer</a>
         <a href="#about">about</a>
         <a href="#menu">laptop accessories</a>
         <a href="#review">review</a>
```

```
    <a href="#order">order</a>
  </nav>

  <div class="icons">
    <i class="fas fa-bars" id="menu-bars"></i>
    <i class="fas fa-search" id="search-icon"></i>
    <a href="#" class="fas fa-heart"></a>
    <a href="#" class="fas fa-shopping-cart"></a>
  </div>

</header>

<!-- header section ends-->
<section class="laptop" id="laptop"><br><br><br><br><br><br><br><br>

  <h3 class="sub-heading">our laptop & computer</h3>
  <h1 class="heading">latest laptop</h1>

  <div class="box-container"width="100px">

    <div class="box">
      <div class="swiper-container home-slider">

        <div class="swiper-wrapper wrapper">

          <div class="swiper-slide slide">
            <div class="content">
            </div>
            <div class="image">
              <br><br><br><br><img src="images1/acer1.jpg">
```

```
    </div>
  </div>

  <div class="swiper-slide slide">
    <div class="content">
    </div>
    <div class="image">
      <br><br><br><br><img src="images1/acer2.jpg" a>
    </div>
  </div>

  <div class="swiper-slide slide">
    <div class="content">
    </div>
    <div class="image">
      <br><br><br><br><img src="images1/acer3.jpg" alt="">
    </div>
  </div>

 </div>

</div>
<h3>Acer Laptop</h3>
<p><h2>Acer Aspire 5 A515-56 Thin And Light Laptop | 15.6" Full HD IPS Display | 11th Generation Intel Core I5-1135G7 Processor | 8GB DDR4 |256GB SSD | 1TB HDD|Backlit KB| WiFi 6| Windows 10 Home | MS Office</h2></p>
<p><h2>Powerful Productivity: 11th Generation Intel Core i5-1135G7 processor delivers unmatched speed and intelligence, enabling impressive creating, productivity, and gaming experiences. With Turbo Boost Technology, get up to 4.2GHz for your high-demand applications
Visibly Stunning: Experience sharp details and crisp colors on the 14" Full HD IPS display with 81.6% screen-to-body, 16:9 aspect ratio and narrow bezels
Ergonomic Typing: Ergonomically-designed hinge lifts the keyboard for comfortable typing, improved cooling, and a better sound experience
```

Internal Specifications: 2*4 GB DDR4 memory - 4GB DDR4 on-board memory and 4 GB system memory, upgradable up to 20GB; Dual storage of about 1 TB HDD and SSD slot that supports up to 1 TB NVMe SSD available to store your files and media

Premium Looks and Mobility : Travel with ease and look great doing it with the Aspire 5 thin, light design and aluminum top cover. Crystal Clear Communications : Acer Purified Voice with two built-in microphones ensures all communications are clear and filters out typing noise. While the HD Webcam ensures crisp images with rich color and detail.</p></h2>

```
        <div class="stars">
          <i class="fas fa-star"></i>
          <i class="fas fa-star"></i>
          <i class="fas fa-star"></i>
          <i class="fas fa-star"></i>
          <i class="fas fa-star-half-alt"></i>
        </div>
        <span>₹63,900
        </span>
        <a href="#" class="btn">add to cart</a>
        <a href="#" class="btn">buy now</a>
      </div>



</section>
<!-- search form  -->

<form action="" id="search-form">
  <input type="search" placeholder="search here..." name="" id="search-box">
  <label for="search-box" class="fas fa-search"></label>
  <i class="fas fa-times" id="close"></i>
</form>
```

```
<!-- footer section starts  -->

<section class="footer">

   <div class="box-container">

      <div class="box">
         <h3>locations</h3>
         <a href="#">india</a>
         <a href="#">japan</a>
         <a href="#">russia</a>
         <a href="#">USA</a>
         <a href="#">france</a>
      </div>

      <div class="box">
         <h3>quick links</h3>
         <a href="#">home</a>
         <a href="#">laptop & computer</a>
         <a href="#">about</a>
         <a href="#">menu</a>
         <a href="#">reivew</a>
         <a href="#">order</a>
      </div>

      <div class="box">
         <h3>contact info</h3>
         <a href="#">8779271395</a>
```

```
            <a href="#">8692057470</a>
            <a href="#">ssagarjadhav1522@gmail.com</a>
            <a href="#">sj104850@gmail.com</a>
            <a href="#">mumbai, india - 400104</a>
        </div>

        <div class="box">
            <h3>follow us</h3>
            <a href="#">facebook</a>
            <a href="#">twitter</a>
            <a href="#">instagram</a>
            <a href="#">linkedin</a>
        </div>

    </div>

    <div class="credit"> copyright @ 2021 by <span>MS. pranali sawant</span> </div>

</section>

<!-- footer section ends -->

<!-- loader part  -->
```

```
    <script src="https://unpkg.com/swiper/swiper-bundle.min.js"></script>


    <!-- custom js file link  -->
    <script src="js/script1.js"></script>
</body>
</html>
```

Order.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=, initial-scale=1.0">
    <title>Complete Responsive Food Website Design Tutorial</title>


    <link rel="stylesheet" href="https://unpkg.com/swiper/swiper-bundle.min.css" />


    <!-- font awesome cdn link  -->
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.15.3/css/all.min.css">


    <!-- custom css file link  -->
    <link rel="stylesheet" href="css/style1.css",>
</head>
<body>
    <header>


        <a href="#" class="logo"><i class="fas fa-laptop "></i>.</a>


        <nav class="navbar">
```

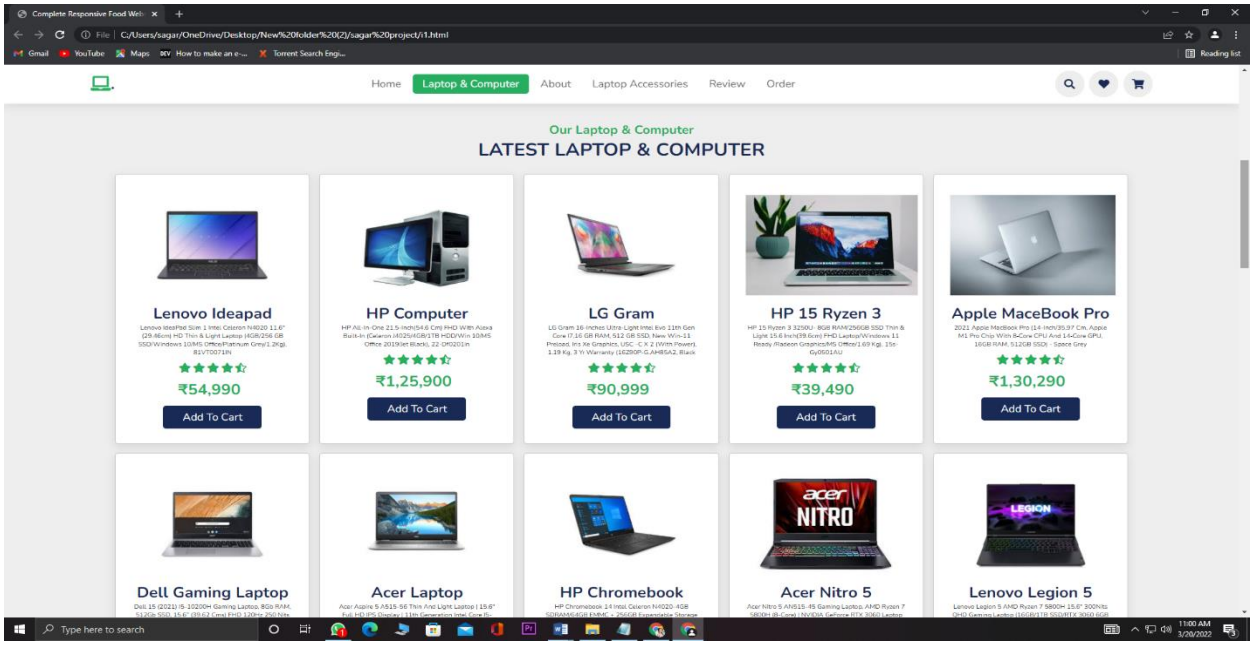
```
            <a class="active" href="#home">home</a>
            <a href="#laptop">laptop & computer</a>
            <a href="#about">about</a>
            <a href="#menu">laptop accessories</a>
            <a href="#review">review</a>
            <a href="#order">order</a>
        </nav>

        <div class="icons">
            <i class="fas fa-bars" id="menu-bars"></i>
            <i class="fas fa-search" id="search-icon"></i>
            <a href="#" class="fas fa-heart"></a>
            <a href="#" class="fas fa-shopping-cart"></a>
        </div>

    </header>
<!-- order section starts  -->

<section class="order" id="order">

    <br><br><br><h3 class="sub-heading"> order now </h3>
    <h1 class="heading"> free and fastest  delivary</h1>

    <form action="">

        <div class="inputBox">
            <div class="input">
                <span>your name</span>
                <input type="text" placeholder="enter your name">
            </div>
```

```
    <div class="input">
      <span>your mobile number</span>
      <input type="number" placeholder="enter your number">
    </div>
  </div>
  <div class="inputBox">
    <div class="input">
      <span>your order</span>
      <input type="text" placeholder="enter laptop name">
    </div>
    <div class="input">
      <span>additional laptop or computer</span>
      <input type="test" placeholder="extra new company laptop">
    </div>
  </div>
  <div class="inputBox">
    <div class="input">
      <span>how musch loptop you buy </span>
      <input type="number" placeholder="how many orders">
    </div>
    <div class="input">
      <span>date and time</span>
      <input type="datetime-local">
    </div>
  </div>
  <div class="inputBox">
    <div class="input">
      <span>your address</span>
      <textarea name="" placeholder="enter your address" id="" cols="30" rows="10"></textarea>
    </div>
```

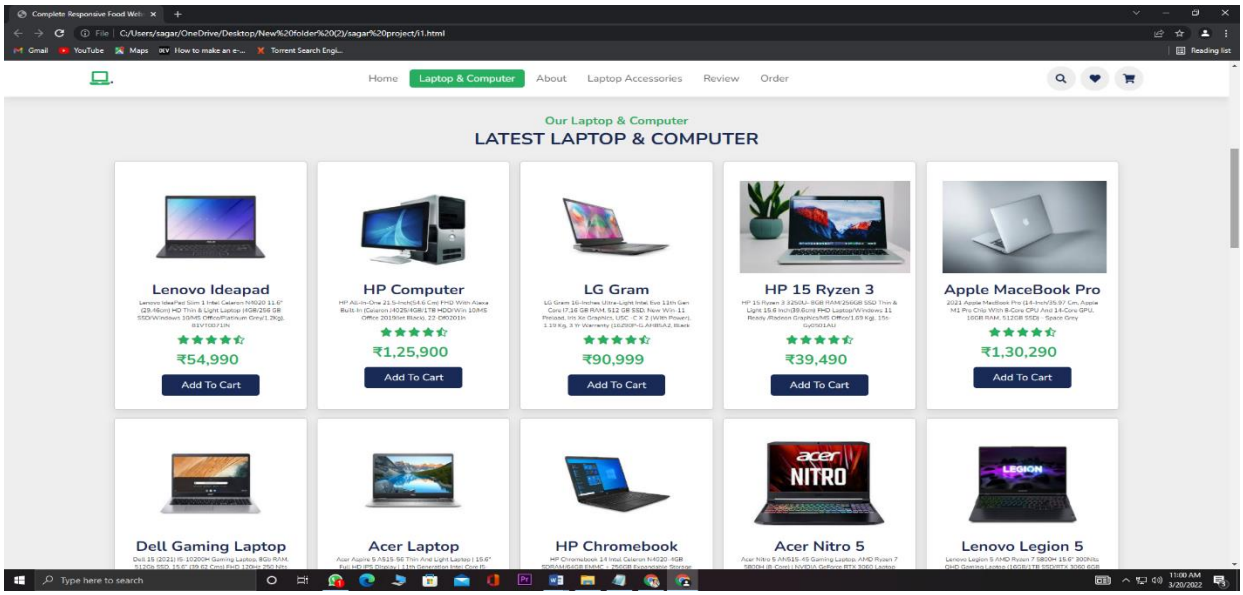
```
        <div class="input">
          <span>your message</span>
          <textarea name="" placeholder="enter your message" id="" cols="30" rows="10"></textarea>
        </div>
      </div>

      <input type="submit" value="order now" class="btn">

    </form>

</section>

<!-- order section ends -->

</body>
</html>
```

SCREENSHOTS OF DESIGN:

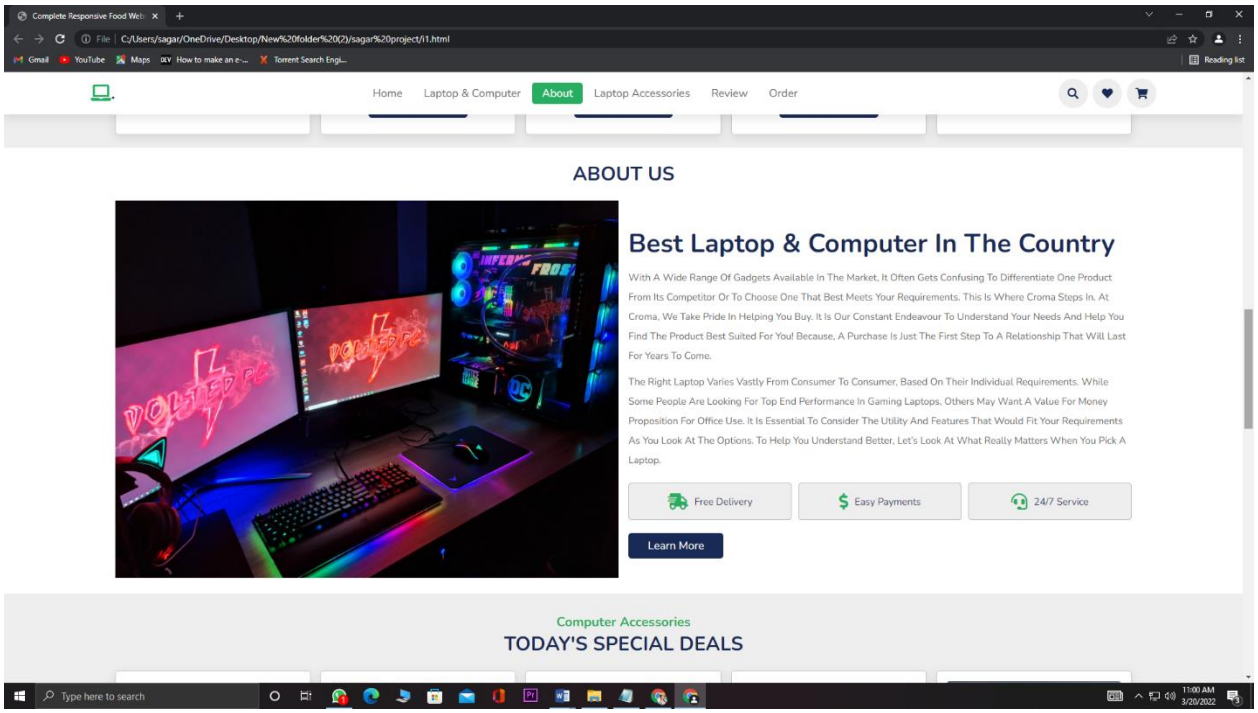
Home Page: -Products Page



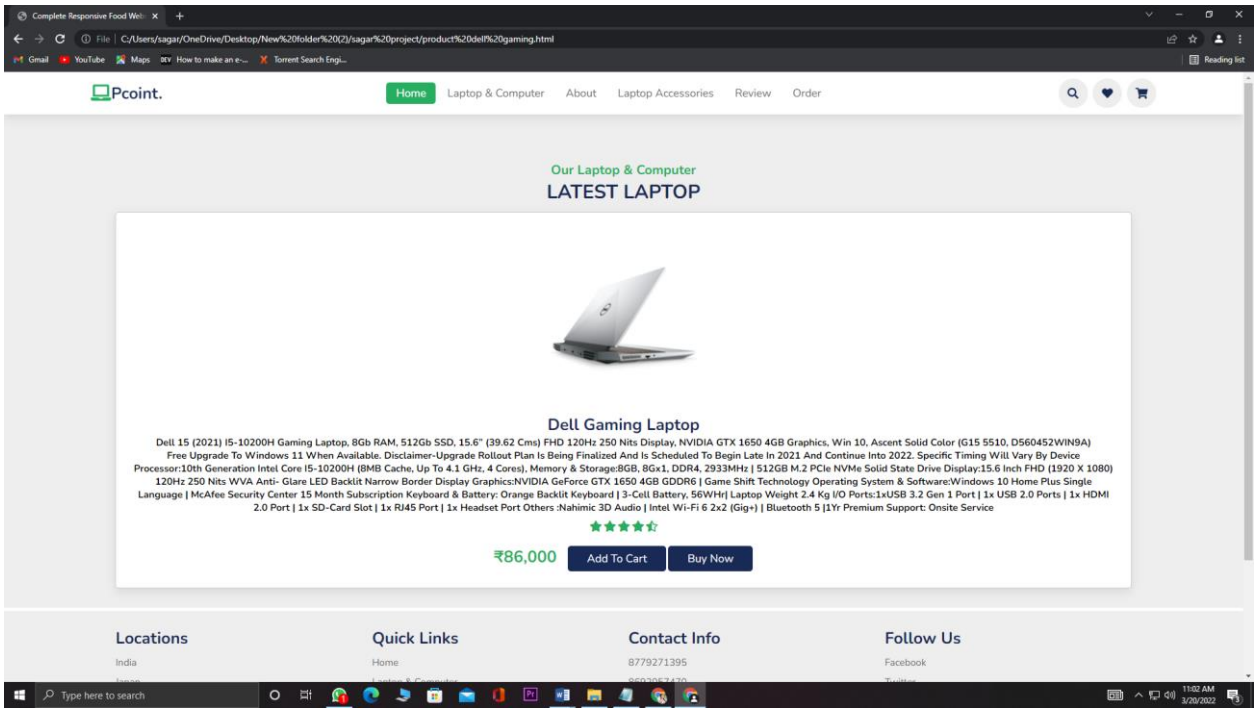
Product Page :-



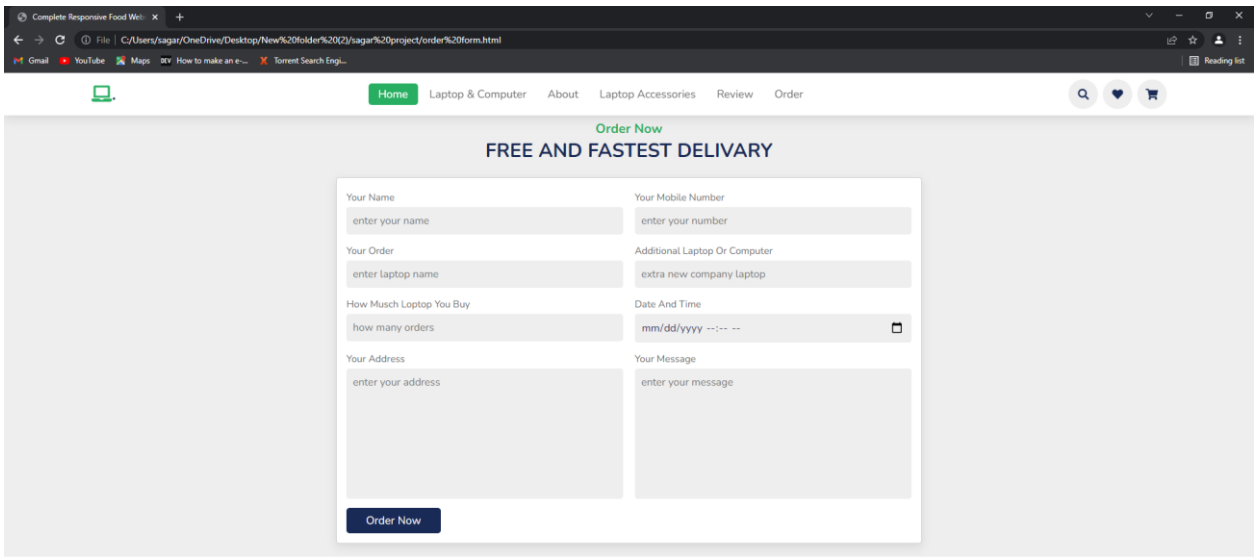
Contact Us Page:



Product_Details.page:



Order page :-



TESTING APPROACHES

--White-Box Testing:

In white-box testing an internal perspective of the system, as well as programming skills, are used to design test cases. The tester chooses inputs to exercise paths through the code and determine the appropriate outputs.
Testing based on an analysis of the internal structure of the component or system. Procedure to derive and select test cases based on an analysis of the internal structure of a component or system.

--Black-Box Testing:

Black box testing has little or no regard to the internal logical structure of the system, it only examines the fundamental aspect of the system. It makes sure that Input is properly accepted and output is correctly produced.
Black box testing is defined as a testing technique in which functionality of the Application Under Test (AUT) is tested without looking at the internal code structure, implementation details and knowledge of internal paths of the software.
This type of testing is based entirely on software requirements and specifications.

.

--Functional Testing:

Functional tests involve exercising the code with nominal input values which gives The expected results and boundary values are known.
Functional Testing is defined as a type of testing which verifies that each **function** of the software application operates in conformance with the requirement specification. This testing mainly involves black box testing and it is not concerned about the source code of the application. Each and every functionality of the system is tested by providing appropriate input, verifying the output and comparing the actual results with the expected results.

--Performance Testing:

Performance tests are designed to verify response time. If the wrong data is entered then the system does not allow it and calculations are not performed.
Performance Testing is defined as a type of software testing to ensure software applications will perform well under their expected workload.
Features and Functionality supported by a software system is not the only concern. A software application's performance like its response time, reliability, resource usage and scalability do matter. The goal of PerformanceTesting is not to find bugs but to eliminate performance bottlenecks.

Unit Testing:

Unit Testing is a level of software testing where individual units/ components of a software are tested. The purpose is to validate that each unit of the software performs as designed. A unit is the smallest testable part of any software. It usually has one or a few inputs and usually a single output.

Integration Testing:

Integration Testing is a level of software testingwhere individual units are combined and tested as a group. The purpose of this level of testing is to expose faults in the interaction between integrated units. Test drivers and test stubs are used to assist in **Integration Testing**.

System Testing:

System Testing is a level of software testing where a complete and integrated software is tested. The purpose of this test is to evaluate the system's compliance with the specified requirements.

Acceptance Testing:

Acceptance Testing is a level of software testingwhere a system is tested for acceptability. The purpose of this test is to evaluate the system's compliance with the business requirements and assess whether it is acceptable for delivery.

Manual Testing:

Sr.no	Name	Input	Expected Output	Actual Output	Result
1.	Registration Page	Valid Credentials	Navigates to Account Page for Login	Navigates to Account Page for Login	pass
2.	Registration Page	Invalid Credentials	Showing invalid credentials	Showing valid credentials	Fail
3.	Registration Page	Repeated Email	Showing Email Already Exists	Showing Email Already Exists	Pass
4.	Registration Page	Empty Credentials	Showing Please fill out this field	Showing Please fill out this field	Pass
5.	Registration Page	Password and Confirm Password doesn't match	Showing Password doesn't match	Showing Password doesn't match	Pass
6.	Login Page	Valid Credentials	Navigates to Home Page	Navigates to Home Page	Pass
7.	Login Page	Invalid Credentials	Navigates to Account Page	Navigates to Account Page	Pass
8.	Logout	User logout	After logout the User cannot go back to home page	After logout the User cannot go back to home page	Pass
9.	Contact Us	Valid Input	Showing message sent successfully	Showing message sent successfully	Pass
10.	Contact Us	Valid Input	Showing message sent successfully	Message didn't sent	Fail
11.	Shopping Cart	Clicking on Add to Cart	Item Added to the cart successfully	Item Added to the cart successfully	Pass
12.	Shopping Cart	Clicking on Add to Cart	Item Added to the cart successfully	Item is not Added to the shopping cart	Fail

13.	Shopping Cart	Clicking on Add to Cart	Total number of products in cart updated	Total number of products in cart Remains Same	Fail
14.	Shopping Cart	Clicking on Add to Cart	Total number of products in cart updated	Total number of products in cart updated	Pass
15.	Shopping Cart	Clicking on Delete Product	Product Deleted from the Cart	Product is still in the Cart	Fail
16.	Shopping Cart	Clicking on Delete Product	Total number of products in Cart updated	Total number of products in Cart updated	Pass
17.	Shopping Cart	Clicking on Delete Product	Product Deleted from the Cart	Product Deleted from the Cart	Pass
18.	Shopping Cart	Increase Product Button	Product number is increased in the Cart by 1.	Product number is increased in the Cart by 1.	Pass
19.	Shopping Cart	Decrease Product Button	Product number is decreased by 1.	Product number is decreased by 1.	Pass
20.	Shopping Cart	Total Amount	Total amount is updated after Adding/ Deleting/Increasing and Decreasing of Products.	Total amount is updated after Adding/ Deleting/Increasing and Decreasing of Products.	Pass

CHAPTER 7

Conclusion

The **internet** has lead to the birth and evolution of **E-commerce.** E-commerce has now become a key component of several organization in the daily running of their business.

As the internet, and in turn E-commerce is developed, and continues to evolve and grow.

It is vital that any organization, in any particular industry, must base its **strategic planning** around such a rapidly growing medium.

Online E-commerce website is a medium in which the customers and buy Electronic Products at lower prices and enjoy benefits like faster and easier buying, Availability 24/7, A wide range of goods and services.

Significance of the system

- E-commerce helps business go Global.
- E-commerce can be done with fewer Overheads & fewer Risks.
- E-commerce can broaden your Brand and Expand your Business.
- Your online Store can stay open for 24*7/365.
- E-commerce is Easier & More Convenient.
- Easily Receive Feedback on your Products/ Services.

Limitations of System

Although this project has a lot of advantage and will make a lot of things easier, it does have few limitations as well, which are:

- There is no online payment system, only **COD** is available.
- Since we don't have a domain, server **DB** is not available, all the product details and the user data is stored in a local **Data Base** and **local storage** of the browser.

Future Scope Of The Project

- We can host the website on online servers to make it accessible Worldwide.
- Improve Product Inventory and provide more options to the customer as soon as possible.
- Adding online payment system and providing more security to the customer by hosting the website on online servers and storing the data on secured Databases online.
- We can add more features which will help and improve the Customers experience of online shopping.

References

- Google for Problem solving
- Localhost, xampp
- Youtube
- W3schools