A To Z(E-Commerce)

A PROJECT REPORT

Submitted By:

MOHD RAGIB(Team Leader)
(University Roll No - 2000290140071)
SANIDHYA CHAUDHARY(Member)
(University Roll No - 2000290140111)
SHIV DIXIT(Member)
(University Roll No - 2000290140113)
NITISH RATHI(Member)
(University Roll No - 2000290140080)

Submitted in partial fulfillment of the
Requirements for the Degree of

MASTER OF COMPUTER APPLICATIONS

Under the Supervision of
ANKIT VERMA SIR
Assistant Professor

Submitted to

DEPARTMENT OF COMPUTER APPLICATIONS
KIET Group of Institutions, Ghaziabad
Uttar Pradesh-201206

(JAN 2022)

DECLARATION

I hereby declare that the work presented in this report entitled "**A TO Z(E-Commerce)**", was carried out by me. I have not submitted the matter embodied in this report for the award of any other degree or diploma of any other University or Institute. I have given due credit to the original authors/sources for all the words, ideas, diagrams, graphics, computer programs, experiments, results, that are not my original contribution. I have used quotation marks to identify verbatim sentences and given credit to the original authors/sources. I affirm that no portion of my work is plagiarized, and the experiments and results reported in the report are not manipulated. In the event of a complaint of plagiarism and the manipulation of the experiments and results, I shall be fully responsible and answerable.

Name :

Roll. No. :

Branch :

(Candidate Signature)

CERTIFICATE

Certified that **MOHD RAGIB University Roll No - 2000290140071, SHIV DIXIT University Roll No – 2000290140113, NITISH RATHI University Roll No – 2000290140080, SANIDHYA CHAUDHARY University Roll No - 2000290140111** have carried out the project work having "**A TO Z(E-Commerce)**" for Master of Computer Applications from Dr. A.P.J. Abdul Kalam Technical University (AKTU**)** (formerly UPTU), Technical University, Lucknow under my supervision. The project report embodies original work, and studies are carried out by the student himself / herself and the contents of the project report do not form the basis for the award of any other degree to the candidate or to anybody else from this or any other University/Institution.

Date:

MOHD RAGIB (2000290140071)

SHIV DIXIT(20002901400113)

SANIDHYA CHAUDHARY(2000290140111)

NITISH RATHI (2000290140080)

This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

Date:

Ankit Verma
Assistant Professor
Department of Computer Applications
KIET Group of Institutions, Ghaziabad

Signature of Internal Examiner   **Signature of External Examiner**

Dr. Ajay Shrivastava
Head, Department of Computer Applications
KIET Group of Institutions, Ghaziabad

ABSTRACT

A TO Z(E-Commerce) is process of doing business through computer networks. A person sitting on his chair in front of a computer can access all the facilities of the Internet to buy or sell the products. Unlike traditional commerce that is carried out physically with effort of a person to go & get products, ecommerce has made it easier for human to reduce physical work and to save time. E-Commerce which was started in early 1990's has taken a great leap in the world of computers, but the fact that has hindered the growth of e-commerce is security. Security is the challenge facing ecommerce today & there is still a lot of advancement made in the field of security. The main advantage of e-commerce over traditional commerce is the user can browse online shops, compare prices and order merchandise sitting at home on their PC. For increasing the use of e-commerce in developing countries the B2B e-commerce is implemented for improving access to global markets for firms in developing countries. For a developing country advancement in the field of e-commerce is essential. The research strategy shows the importance of the e-commerce in developing countries for business applications. The main objective of the E-commerce Website is to manage the details of Products,Customer,Shipping,Payment,Category. It manages all the information about Products, Sales, Category, Products. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Products Customer, Sales, Shipping. It tracks all the details about the Shipping,Payment,Category.What are providing is, we are giving the videos of our products so that the use or the customer can interact with our products.

ACKNOWLEDGEMENT

Success in life is never attained single handedly. My deepest gratitude goes to my thesis supervisor, **Ankit Verma Sir** for his guidance, help and encouragement throughout my research work. Their enlightening ideas, comments, and suggestions.

Words are not enough to express my gratitude to Dr. Ajay Kumar Shrivastava, Professor and Head, Department of Computer Applications, for his insightful comments and administrative help at various occasions.

Fortunately, I have many understanding friends, who have helped me a lot on many critical conditions.

Finally, my sincere thanks go to my family members and all those who have directly and indirectly provided me moral support and other kind of help. Without their support, completion of this work would not have been possible in time. They keep my life filled with enjoyment and happiness.

MOHD RAGIB

NITISH RATHI

SHIV DIXIT
SANIDHYA CHAUDHARY

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION

Customer get many benefits via online shopping this helps e-commerce companies to build long lasting and profitable relationship with their customers. For making strong relationship with these users it is very important to focus on the customer as a whole and making sense of a flood of real time information that goes well beyond demographics or shopping behaviour. There are two entities who will have the access to the system. One is the admin and another one will be the registered user.

Admin can add product details, view all the order details and can also view the sales of the products. User need to register with basic registration details to generate a valid username and password. After the user logins, it can view all the products that are recommended on the homepage compiled by the system based on user's information. From the recommended products, the user can even further view its details and then if interested to buy, the system gives add to cart option for purchasing the product. The additional thing we are giving is videos.The unboxing videos of our products so that the user can interact with our products. And with this they can also will be familiar.

1.2 AIM

The main aim of A TO Z(E-Commerce) development is to sell products to users. The most successful websites are carefully optimized to achieve a high percentage of purchases. To achieve success ecommerce websites need to integrate all of the latest online closing & upsell techniques available which have been proven to increase chances that a visitor will purchase. There are many important elements that go into building a successful e-commerce website such as removing friction during the purchasing process, making the checkout smooth and easy, making the website fast and attractive, up selling users on related products, incentivizing buyers, reducing cart abandonment, nurturing past buyers to buy again, remarketing to past visitors who haven't yet purchased, using the proper payment options, having a mobile ready design and many more things which are needed to develop and e-commerce website.

1.3 EXISTING SYSTEM

This existing system of buying goods has several disadvantages. It requires lots of time to travel to the particular shop to buy the goods. It is having lots of manual work. Since everyone is leading busy life now a days, time means a lot to everyone. Also there are expenses for travelling from house to shop. It is less user-friendly. In current system user must go to shop and order products. It is difficult to identify the required product. More over the shop from where we would like to buy something may not be open 24*7*365. Hence we have to adjust our time with the shopkeeper's time or vendor's time. In current e-commerce system user have to go shop to view the description of the product. It is unable to generate different kinds of report.

1.4 PROPOSED SYSTEM

The proposed system helps in building a website to buy, sell products or goods online using internet connection. Unlike traditional commerce that is carried out physically with effort of a person to go and get products, eCommerce has made it easier for human to reduce physical work and to save time. The basic concept of the application is to allow the customer to shop virtually using the Internet and allow customers to buy the items and articles of their desire from the store.E-commerce is fast gaining ground as an accepted and used business paradigm. And the videos concept will also help to the customer to understand how product is working and how it will work after buying.

1.5 HARDWARE & SOFTWARE REQUIREMENTS SPECIFICATION

1.5.1 Hardware Requirements

Number	Description
1	200 GB or more Hard disk.
2	SYSTEM with 1 GB RAM.
3	SYSTEM with Pentium 1 and above.

1.5.2 Software Requirements

Number	Description	Type
1	Operating System	Windows
2	Language	JavaScript , HTML,CSS,php
3	Database	MySQL
4	IDE	Sublime
5	Browser	Chrome, Firefox, Edge

CHAPTER 2

FEASIBILITY STUDY

2.1 FEASIBILITY STUDY

A feasibility study is a high-level capsule version of the entire System analysis and Design Process. The study begins by classifying the problem definition. Feasibility is to determine if it's worth doing. Once an acceptance problem definition has been generated, the analyst develops a logical model of the system. A search for alternatives is analyzed carefully. There are 3 parts in feasibility study.

1. Technical Feasibility
2. Economical Feasibility
3. Operational Feasibility

2.2 OPERATIONAL FEASIBILITY

Operational feasibility is the measure of how well a proposed system solves the problems, and takes advantage of the opportunities identified during scope definition and how it satisfies the requirements identified in the requirements analysis phase of system development. The operational feasibility assessment focuses on the degree to which the proposed development projects fits in with the existing business environment and objectives with regard to development schedule, delivery date, corporate culture and existing business processes. To ensure success, desired operational outcomes must be imparted during design and development. These include such design-dependent parameters as reliability, maintainability, supportability, usability, producibility, disposability, sustainability, affordability and others. These parameters are required to be considered at the early stages of design if desired operational behaviours are to be realised. A system design and development requires appropriate and timely application of engineering and management efforts to meet the previously mentioned parameters. A system may serve its intended purpose most effectively when its technical and operating characteristics are engineered into the design. Therefore, operational feasibility is a critical aspect of systems engineering that needs to be an integral part of the early design phases.

2.3 TECHNICAL FEASIBILITY

This involves questions such as whether the technology needed for the system exists, how difficult it will be to build, and whether the firm has enough experience using that technology. The assessment is based on outline design of system requirements in terms of input, processes, output, fields, programs and procedures. This can be qualified in terms of volume of data, trends, frequency of updating inorder to give an introduction to the technical system. The application is the fact that it has been developed on windows XP platform and a high configuration of 1GB RAM on Intel Pentium Dual core processor. This is technically feasible .The technical feasibility assessment is focused on gaining an understanding of the present technical resources of the organization and their applicability to the expected needs of the proposed system. It is an evaluation of the hardware and software and how it meets the need of the proposed system.

2.4 ECONOMICAL FEASIBILITY

Establishing the cost-effectiveness of the proposed system i.e. if the benefits do not outweigh the costs then it is not worth going ahead. In the fast paced world today there is a great need of online social networking facilities. Thus the benefits of this project in the current scenario make it economically feasible. The purpose of the economic feasibility assessment is to determine the positive economic benefits to the organization that the proposed system will provide. It includes quantification and identification of all the benefits expected. This assessment typically involves a cost/benefits analysis.

CHAPTER 3

DESIGN & PLANNING

3.1 SOFTWARE DEVELOPMENT LIFE CYCLE MODEL
3.1.1 WATERFALL MODEL

The waterfall model was selected as the SDLC model due to the following reasons:

- Technology was adequately understood.
- Simple and easy to understand and use.
- There were no ambiguous requirements.
- Easy to manage due to the rigidity of the model.
- Each phase has specific deliverables and a review process.
- Clearly defined stages.
- Well understood milestones.
- Easy to arrange tasks.
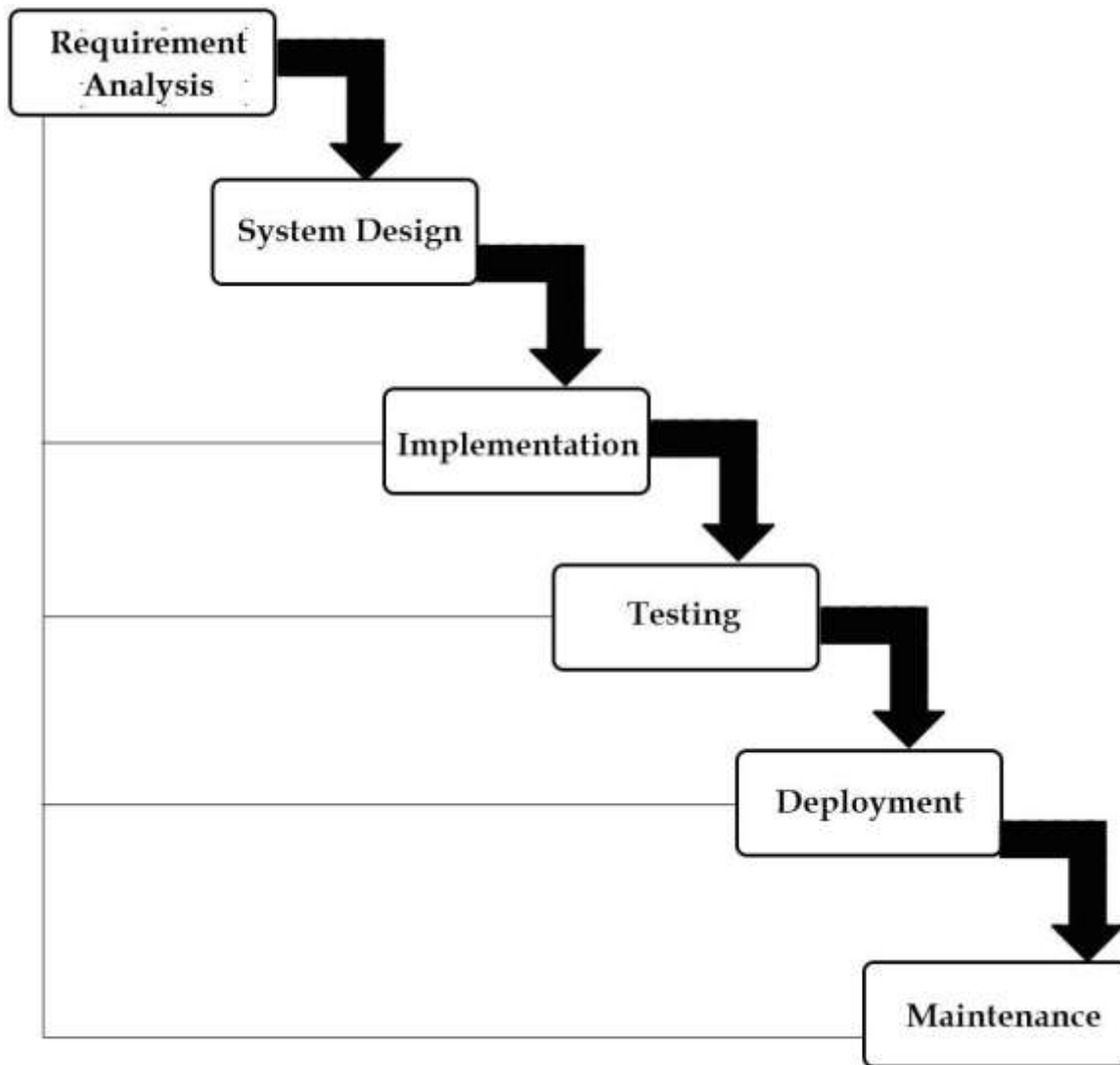
3.2 GENERAL OVERVIEW

3.3 USE CASE DIAGRAM

Malita E-commerce Website

Post Products

Process Products Ordered

Browse Product

<<include>>

Order Products

<<include>>

<<include>>

Customer information

Track Orders

Confirm Shipment

Registration

Customer

Vendor

Administrator
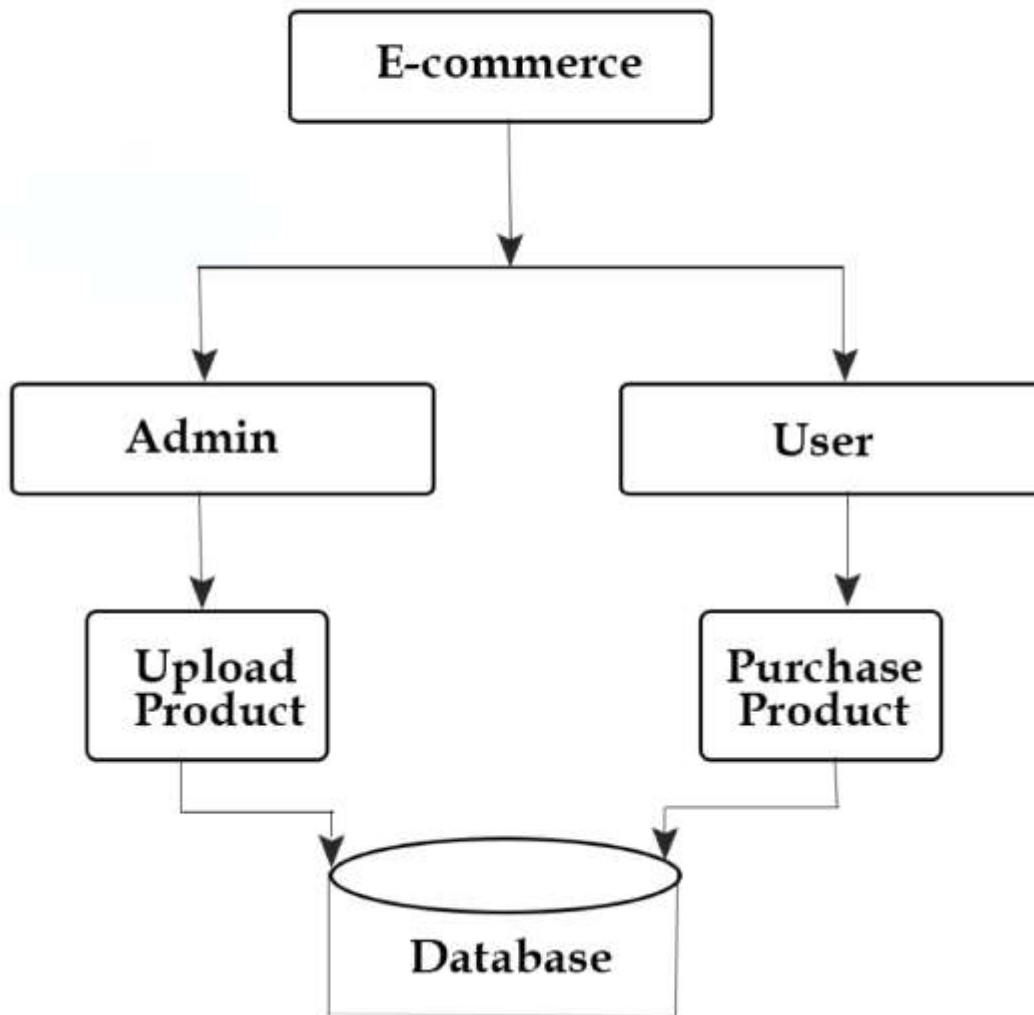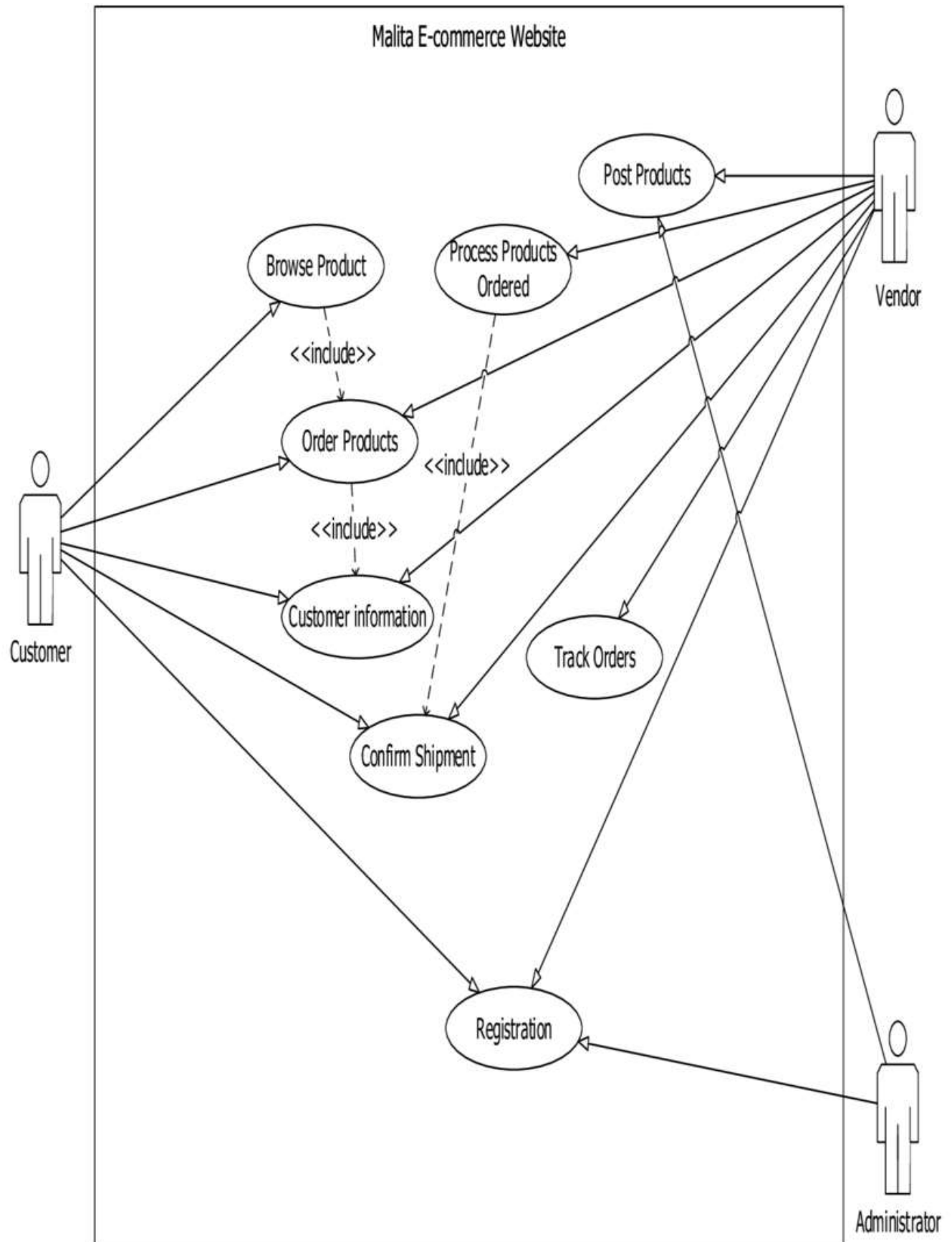
3.4 SEQUENCE DIAGRAM

3.4.1 Login
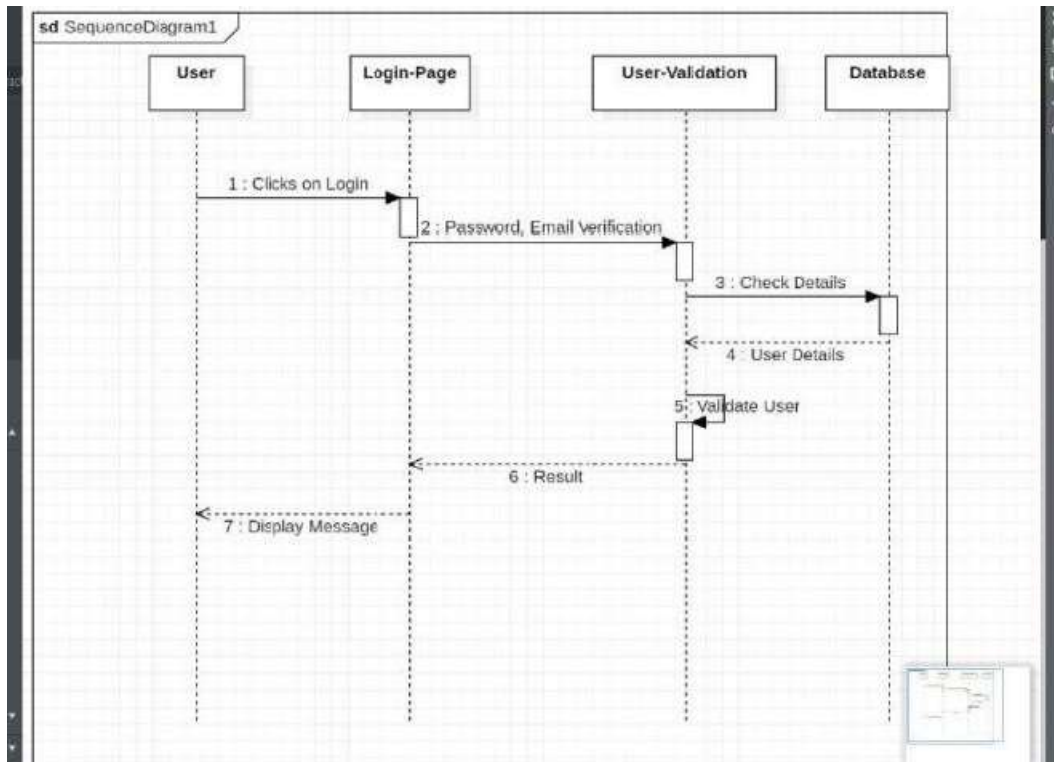
3.4.2 Search
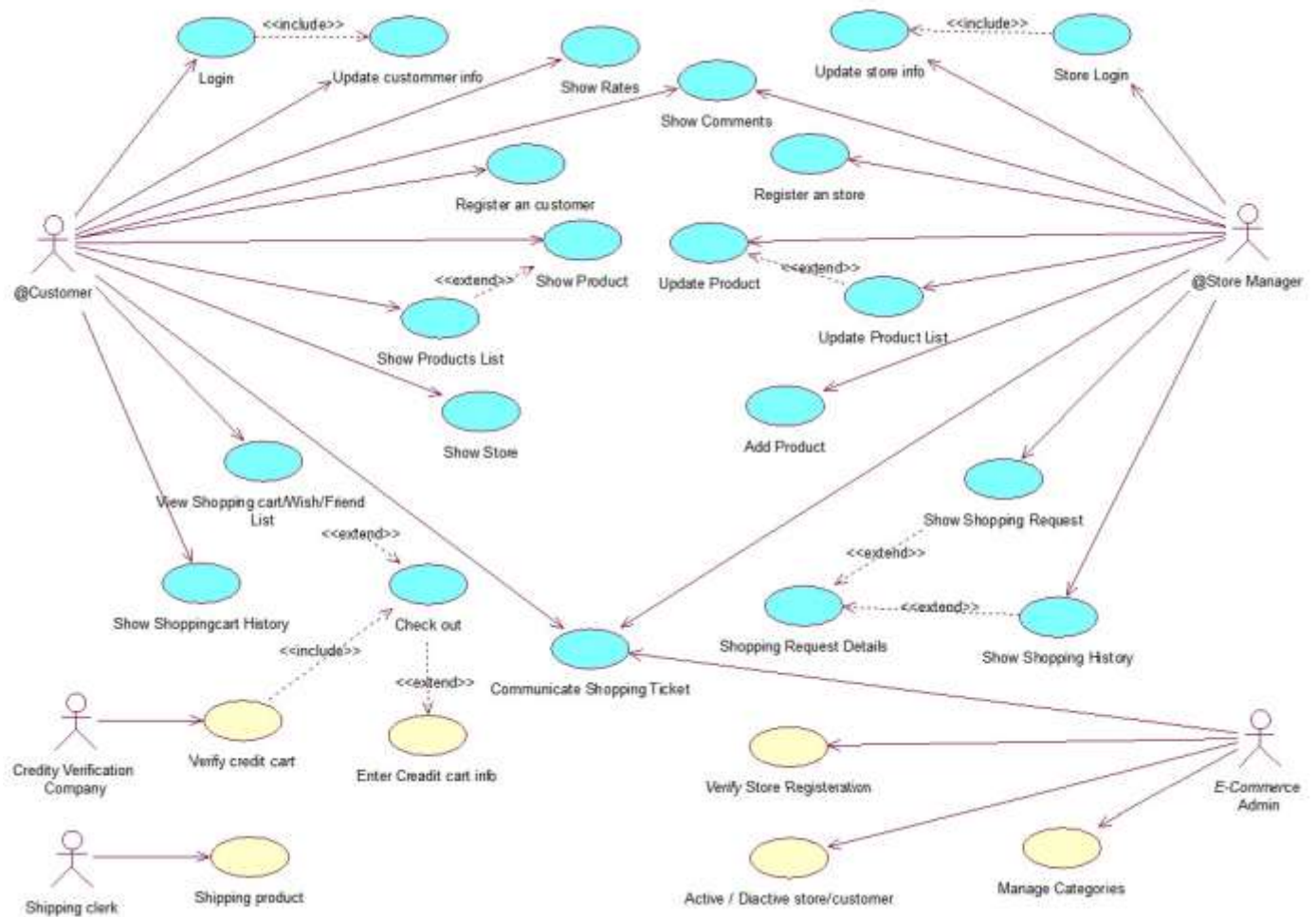
3.4.3 Add New Product

3.4.4 Buy Product

sa SequenceDiagram1

Buying Product

| User | Product GUI | Login GUI | Product | Shopping Cart | CartItem | Order | Customer | Coupon-Discount |

1 : Select

2 : getProductDetails fun

3 : Product Details

4 : addCartItem fun

5 : new fun

6 : aCartItem

7 : updateStatus

8 : Discount

9 : calculatePrice fun

10 : CheckOut fun

11 : Login Request

12 : Login fun

13 : LoggedIn

14 : updateShippingInfo fun

15 : Shipping Details Updated

16 : Calculate TotalPrice

17 : placeOrder fun

18 : Order Confirmation Message

3.5 ACTIVITY DIAGRAM

3.5.1   User Side
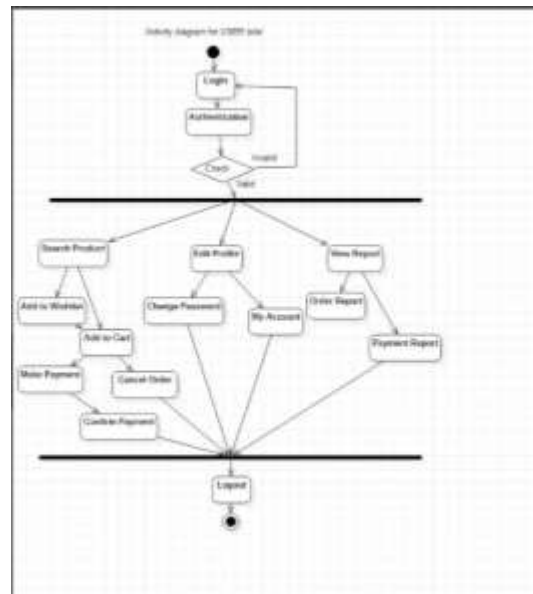
3.5.2 For Admin
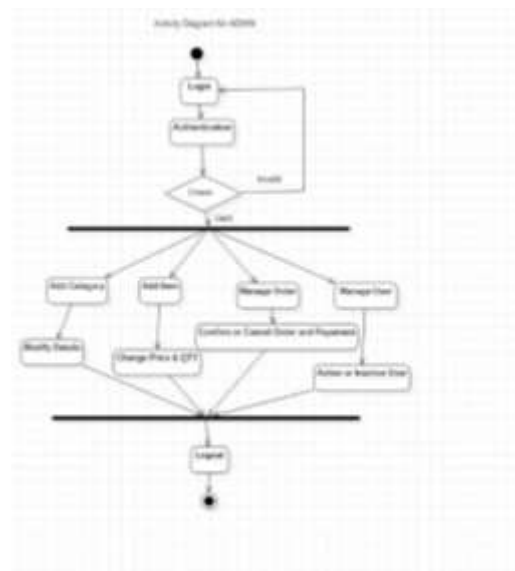
3.6 DFD

3.6.1 Zero-Level DFD Diagram
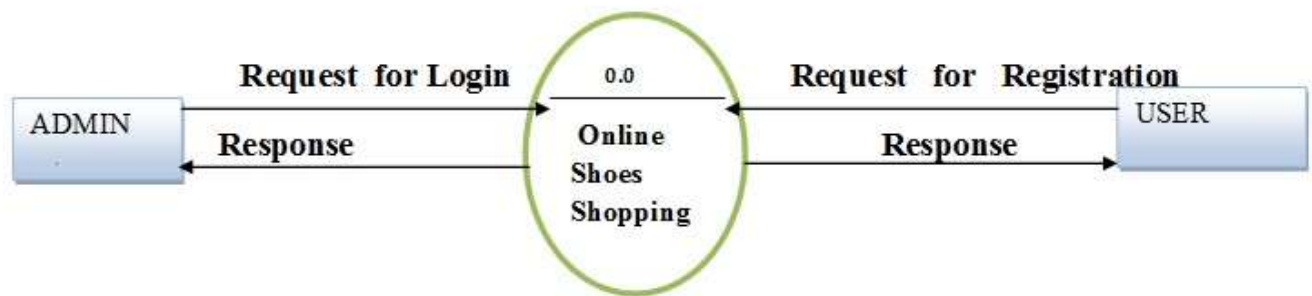
3.6.2 First-Level DFD Diagram

Admin Side DFD - 1st Level

Request for Login — **1.0 Login** — Check for login → AdminMst

Response ← Login ← Reply ← AdminMst

Add / Edit Category — **2.0 Manage Category** — Insert Data → CategoryMst

Response ← Manage Category ← Reply ← CategoryMst

Add / Edit Item — **3.0 Manage Item** — Insert Data → ItemMst

Response ← Manage Item ← Reply ← ItemMst

Manage Order — **4.0 Manage Order** — View Order → OrderMst

Response ← Manage Order ← Reply ← OrderMst

View Report — **5.0 Manage Reports** — View Report → UserMSt / OrderMSt / PaymentMst

Display Data ← Manage Reports ← Display Data

3.6.3 Second-Level DFD Diagram
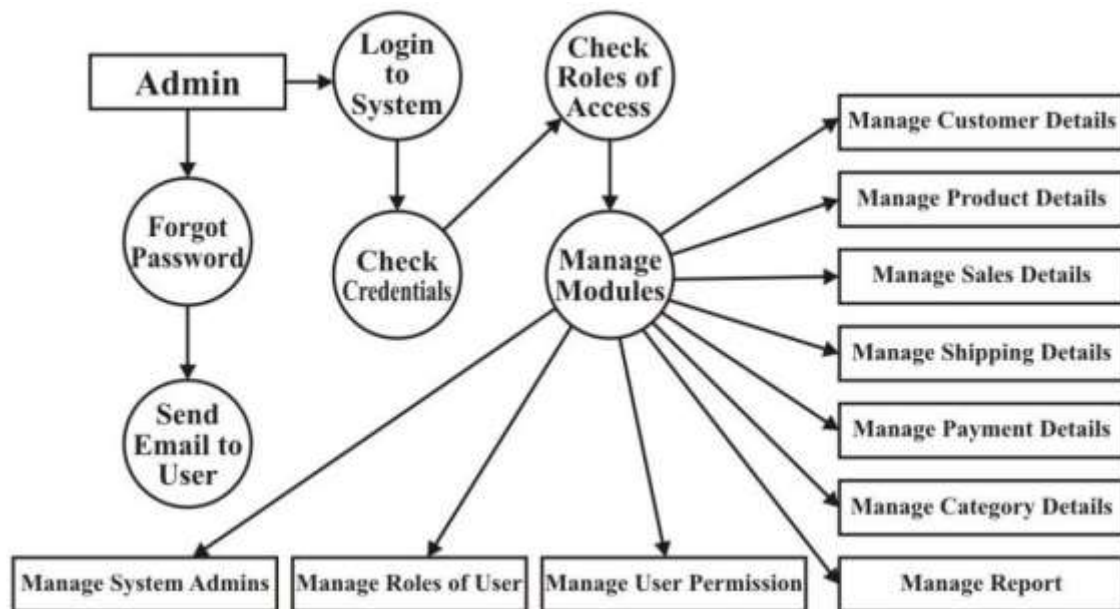
CHAPTER 4

FORM DESIGN

4.1 INPUT / OUTPUT FORM
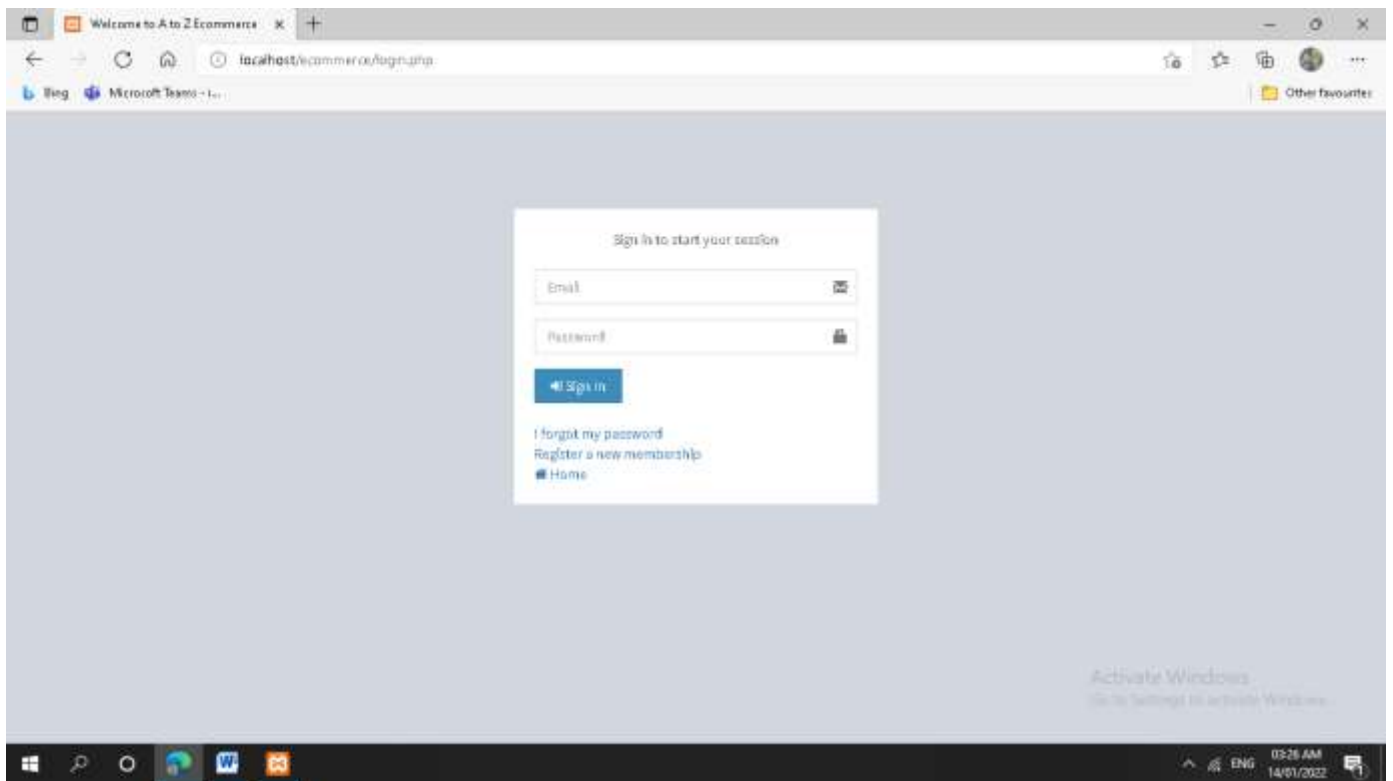
Figure :4.1.1

Figure : 4.1.2
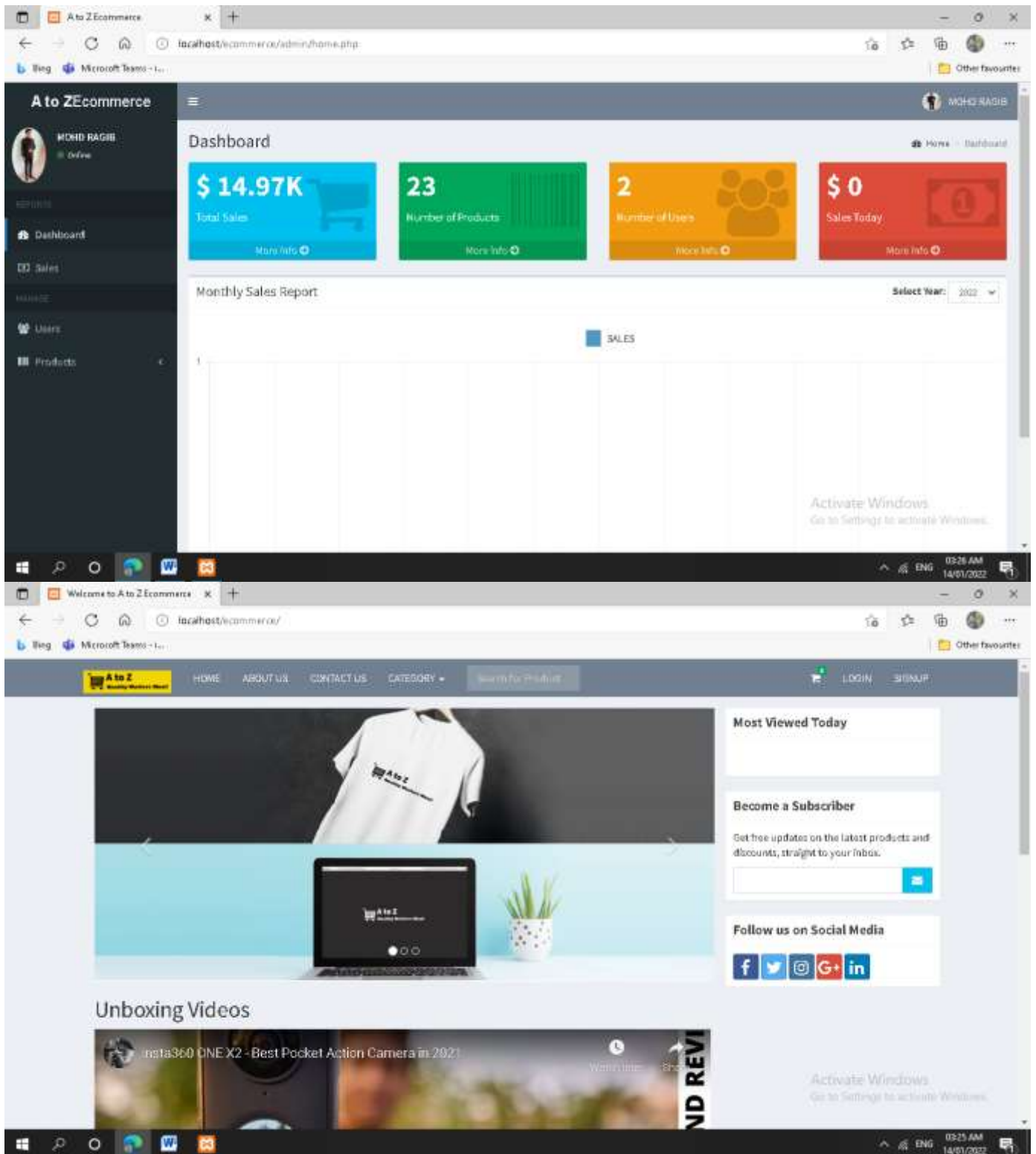
CHAPTER 5

CODING

5.1 INDEX.PHP

```php
<?php include 'includes/session.php'; ?>
<?php include 'includes/header.php'; ?>
<body class="hold-transition skin-blue layout-top-nav">
<div class="wrapper">

        <?php include 'includes/navbar.php'; ?>

    <div class="content-wrapper">
      <div class="container">

        <!-- Main content -->
        <section class="content">
          <div class="row">
            <div class="col-sm-9">
                    <?php
                            if(isset($_SESSION['error'])){
                                    echo "

                                            <div class='alert alert-danger'>
                                                    ".$_SESSION['error']."
                                            </div>
                                    ";
                                    unset($_SESSION['error']);
                            }
                    ?>
                    <div id="carousel-example-generic" class="carousel slide" data-ride="carousel">
                      <ol class="carousel-indicators">
                        <li data-target="#carousel-example-generic" data-slide-to="0"
class="active"></li>
                        <li data-target="#carousel-example-generic" data-slide-to="1" class=""></li>
                        <li data-target="#carousel-example-generic" data-slide-to="2" class=""></li>
                      </ol>
                      <div class="carousel-inner">
                        <div class="item active">
                          <img src="images/homelogo.png" alt="First slide">
                        </div>
                      </div>
                      <a class="left carousel-control" href="#carousel-example-generic" data-
slide="prev">
                        <span class="fa fa-angle-left"></span>
```

```html
                </a>
                <a class="right carousel-control" href="#carousel-example-generic" data-slide="next">
                    <span class="fa fa-angle-right"></span>
                </a>
            </div>
            <h2>Unboxing Videos</h2>
            <iframe width="820" height="315" src="https://www.youtube.com/embed/nYau_vJDuAE" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture" allowfullscreen></iframe>
            <iframe width="820" height="315" src="https://www.youtube.com/embed/O_0zjaVeVDQ" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture" allowfullscreen></iframe>
            <iframe width="820" height="315" src="https://www.youtube.com/embed/z1IgRoCrgjk" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture" allowfullscreen></iframe>
                <?php
                    $month = date('m');
                    $conn = $pdo->open();

                    try{
                        $inc = 3;
                        $stmt = $conn->prepare("SELECT *, SUM(quantity) AS total_qty FROM details LEFT JOIN sales ON sales.id=details.sales_id LEFT JOIN products ON products.id=details.product_id WHERE MONTH(sales_date) = '$month' GROUP BY details.product_id ORDER BY total_qty DESC LIMIT 6");
                        $stmt->execute();
                        foreach ($stmt as $row) {
                            $image = (!empty($row['photo'])) ? 'images/'.$row['photo'] : 'images/noimage.jpg';

                            $inc = ($inc == 3) ? 1 : $inc + 1;
                            if($inc == 1) echo "<div class='row'>";
                            echo "
                                <div class='col-sm-4'>
                                    <div class='box box-solid'>
                                        <div class='box-body prod-body'>
                                            <img src='".$image."' width='100%' height='230px' class='thumbnail'>
                                            <h5><a href='product.php?product=".$row['slug']."'>".$row['name']."</a></h5>
                                        </div>
                                        <div class='box-footer'>
                                            <b>&#36; ".number_format($row['price'], 2)."</b>
                                        </div>
                                    </div>
```
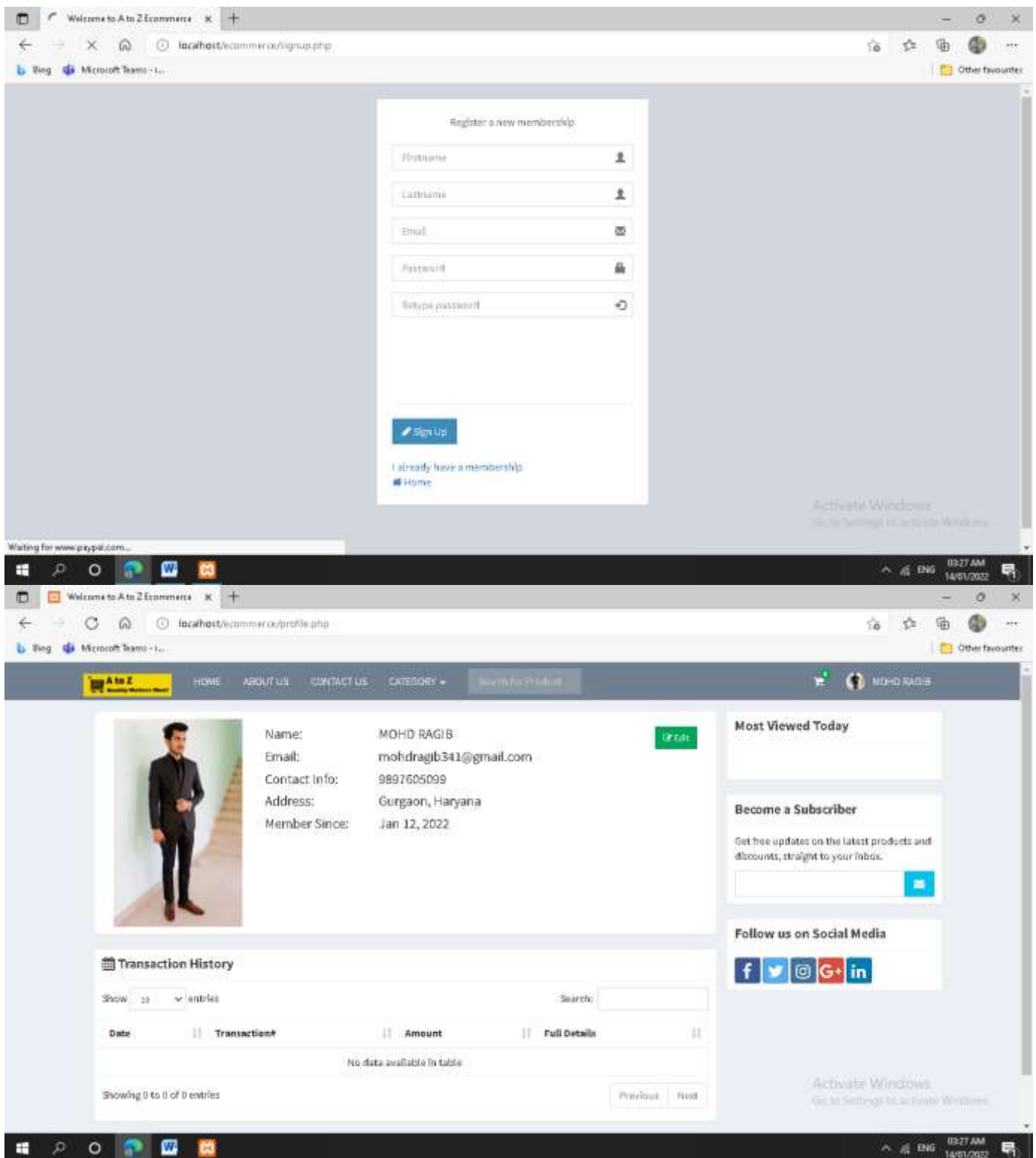
```
                                    </div>
                                ";
                                if($inc == 3) echo "</div>";
                            }
                          if($inc == 1) echo "<div class='col-sm-4'></div><div
class='col-sm-4'></div></div>";

                              if($inc == 2) echo "<div class='col-sm-
4'></div></div>";
                        }
                        catch(PDOException $e){
                                echo "There is some problem in connection: " . $e-
>getMessage();
                        }

                        $pdo->close();

                    ?>
            </div>
            <div class="col-sm-3">
                        <?php include 'includes/sidebar.php'; ?>
            </div>
          </div>
        </section>

        </div>
      </div>

      <?php include 'includes/footer.php'; ?>
</div>

<?php include 'includes/scripts.php'; ?>
</body>
</html>
```

5.2 HEADER.PHP

```
<!DOCTYPE html>
<html>
<head>
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <title>Welcome to A to Z Ecommerce</title>
        <!-- Tell the browser to be responsive to screen width -->
        <meta content="width=device-width, initial-scale=1, maximum-scale=1, user-scalable=no"
name="viewport">
        <!-- Bootstrap 3.3.7 -->
        <link rel="stylesheet" href="bower_components/bootstrap/dist/css/bootstrap.min.css">
        <!-- DataTables -->
    <link rel="stylesheet" href="bower_components/datatables.net-bs/css/dataTables.bootstrap.min.css">
        <!-- Font Awesome -->
        <link rel="stylesheet" href="bower_components/font-awesome/css/font-awesome.min.css">
        <!-- Theme style -->
        <link rel="stylesheet" href="dist/css/AdminLTE.min.css">
        <!-- AdminLTE Skins. Choose a skin from the css/skins
    folder instead of downloading all of them to reduce the load. -->
        <link rel="stylesheet" href="dist/css/skins/_all-skins.min.css">
    <!-- Magnify -->
    <link rel="stylesheet" href="magnify/magnify.min.css">

        <!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media queries -->
        <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
        <!--[if lt IE 9]>
        <script src="https://oss.maxcdn.com/html5shiv/3.7.3/html5shiv.min.js"></script>
        <script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
        <![endif]-->

        <!-- Google Font -->
        <link rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,600,700,300italic,400italic,600it
alic">

    <!-- Paypal Express -->
    <script src="https://www.paypalobjects.com/api/checkout.js"></script>
    <!-- Google Recaptcha -->
    <script src='https://www.google.com/recaptcha/api.js'></script>

        <!-- Custom CSS -->
    <style type="text/css">
    /* Small devices (tablets, 768px and up) */
    @media (min-width: 768px){
     #navbar-search-input{
       width: 60px;
```

34

```css
    }
    #navbar-search-input:focus{
      width: 100px;
    }
}

/* Medium devices (desktops, 992px and up) */
@media (min-width: 992px){
  #navbar-search-input{
    width: 150px;
  }
  #navbar-search-input:focus{
    width: 250px;
  }
}

.word-wrap{
  overflow-wrap: break-word;
}
.prod-body{
  height:300px;
}

.box:hover {
    box-shadow: 0 8px 16px 0 rgba(0,0,0,0.2);
}
.register-box{
  margin-top:20px;
}

#trending{
  list-style: none;
  padding:10px 5px 10px 15px;
}
#trending li {
  padding-left: 1.3em;
}
#trending li:before {
  content: "\f046";
  font-family: FontAwesome;
  display: inline-block;
  margin-left: -1.3em;
  width: 1.3em;
}

/*Magnify*/
.magnify > .magnify-lens {
  width: 100px;
  height: 100px;
}
```

```
</style>

</head>
```

5.3 LOGIN.PHP

```php
<?php include 'includes/session.php'; ?>
<?php
 if(isset($_SESSION['user'])){
   header('location: cart_view.php');
 }
?>
<?php include 'includes/header.php'; ?>
<body class="hold-transition login-page">
<div class="login-box">
        <?php
    if(isset($_SESSION['error'])){
     echo "
       <div class='callout callout-danger text-center'>
        <p>".$_SESSION['error']."</p>
       </div>
      ";
      unset($_SESSION['error']);
     }
    if(isset($_SESSION['success'])){
     echo "
       <div class='callout callout-success text-center'>
        <p>".$_SESSION['success']."</p>
       </div>
      ";
      unset($_SESSION['success']);
     }
   ?>
        <div class="login-box-body">
        <p class="login-box-msg">Sign in to start your session</p>

        <form action="verify.php" method="POST">
                <div class="form-group has-feedback">
                <input type="email" class="form-control" name="email" placeholder="Email" required>
                <span class="glyphicon glyphicon-envelope form-control-feedback"></span>
                </div>
      <div class="form-group has-feedback">
       <input type="password" class="form-control" name="password" placeholder="Password"
required>
       <span class="glyphicon glyphicon-lock form-control-feedback"></span>
      </div>
                <div class="row">
                        <div class="col-xs-4">
                        <button type="submit" class="btn btn-primary btn-block btn-flat" name="login"><i
class="fa fa-sign-in"></i> Sign In</button>
                </div>
                </div>
```

```html
        </form>
    <br>
    <a href="password_forgot.php">I forgot my password</a><br>
    <a href="signup.php" class="text-center">Register a new membership</a><br>
    <a href="index.php"><i class="fa fa-home"></i> Home</a>
        </div>
</div>

<?php include 'includes/scripts.php' ?>
</body>
</html>
```

5.4 REGISTER.PHP

```php
<?php
    use PHPMailer\PHPMailer\PHPMailer;
    use PHPMailer\PHPMailer\Exception;

    include 'includes/session.php';

    if(isset($_POST['signup'])){
        $firstname = $_POST['firstname'];
        $lastname = $_POST['lastname'];
        $email = $_POST['email'];
        $password = $_POST['password'];
        $repassword = $_POST['repassword'];

        $_SESSION['firstname'] = $firstname;
        $_SESSION['lastname'] = $lastname;
        $_SESSION['email'] = $email;

        if(!isset($_SESSION['captcha'])){
            require('recaptcha/src/autoload.php');
            $recaptcha = new
\ReCaptcha\ReCaptcha('6LevO1IUAAAAAFCCiOHERRXjh3VrHa5oywciMKcw', new
\ReCaptcha\RequestMethod\SocketPost());
            $resp = $recaptcha->verify($_POST['g-recaptcha-response'],
$_SERVER['REMOTE_ADDR']);

            if (!$resp->isSuccess()){
                $_SESSION['error'] = 'Please answer recaptcha correctly';
                header('location: signup.php');
                exit();
            }
            else{
                $_SESSION['captcha'] = time() + (10*60);
            }

        }
```

```php
if($password != $repassword){
        $_SESSION['error'] = 'Passwords did not match';
        header('location: signup.php');
}
else{
        $conn = $pdo->open();

        $stmt = $conn->prepare("SELECT COUNT(*) AS numrows FROM users WHERE email=:email");
        $stmt->execute(['email'=>$email]);
        $row = $stmt->fetch();
        if($row['numrows'] > 0){
                $_SESSION['error'] = 'Email already taken';
                header('location: signup.php');
        }
        else{
                $now = date('Y-m-d');
                $password = password_hash($password, PASSWORD_DEFAULT);

                //generate code

    $set='123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ';
                $code=substr(str_shuffle($set), 0, 12);

                try{
                        $stmt = $conn->prepare("INSERT INTO users (email, password,
firstname, lastname, activate_code, created_on) VALUES (:email, :password, :firstname, :lastname, :code,
:now)");
                        $stmt->execute(['email'=>$email, 'password'=>$password,
'firstname'=>$firstname, 'lastname'=>$lastname, 'code'=>$code, 'now'=>$now]);
                        $userid = $conn->lastInsertId();

                        $message = "
                                <h2>Thank you for Registering.</h2>
                                <p>Your Account:</p>
                                <p>Email: ".$email."</p>
                                <p>Password: ".$_POST['password']."</p>
                                <p>Please click the link below to activate your account.</p>
                                <a
href='http://localhost/ecommerce/activate.php?code=".$code."&user=".$userid."'>Activate Account</a>
                                ";

                        //Load phpmailer
                    require 'vendor/autoload.php';

                        $mail = new PHPMailer(true);
                          try {
                            //Server settings
                            $mail->isSMTP();
```

```php
                    $mail->Host = 'smtp.gmail.com';
                    $mail->SMTPAuth = true;
                    $mail->Username = 'testsourcecodester@gmail.com';
                    $mail->Password = 'mysourcepass';
                    $mail->SMTPOptions = array(
                        'ssl' => array(
                        'verify_peer' => false,
                        'verify_peer_name' => false,
                        'allow_self_signed' => true
                        )
                    );
                    $mail->SMTPSecure = 'ssl';
                    $mail->Port = 465;

                    $mail->setFrom('testsourcecodester@gmail.com');

                    //Recipients
                    $mail->addAddress($email);
                    $mail->addReplyTo('testsourcecodester@gmail.com');

                    //Content
                    $mail->isHTML(true);
                    $mail->Subject = 'ECommerce Site Sign Up';
                    $mail->Body    = $message;

                    $mail->send();

                    unset($_SESSION['firstname']);
                    unset($_SESSION['lastname']);
                    unset($_SESSION['email']);

                    $_SESSION['success'] = 'Account created. Check your email to
activate.';

                    header('location: signup.php');

                }
                catch (Exception $e) {
                    $_SESSION['error'] = 'Message could not be sent. Mailer Error: '.$mail-
>ErrorInfo;

                    header('location: signup.php');
                }


            }
            catch(PDOException $e){
                    $_SESSION['error'] = $e->getMessage();
                    header('location: register.php');
            }

            $pdo->close();
```

```php
                }

            }

        }
        else{
                $_SESSION['error'] = 'Fill up signup form first';
                header('location: signup.php');
        }

?>
```

5.5 CATEGORY.PHP

```php
<?php include 'includes/session.php'; ?>
<?php
        $slug = $_GET['category'];

        $conn = $pdo->open();

        try{
                $stmt = $conn->prepare("SELECT * FROM category WHERE cat_slug = :slug");
                $stmt->execute(['slug' => $slug]);
                $cat = $stmt->fetch();
                $catid = $cat['id'];
        }
        catch(PDOException $e){
                echo "There is some problem in connection: " . $e->getMessage();
        }

        $pdo->close();

?>
<?php include 'includes/header.php'; ?>
<body class="hold-transition skin-blue layout-top-nav">
<div class="wrapper">

        <?php include 'includes/navbar.php'; ?>

         <div class="content-wrapper">
          <div class="container">

            <!-- Main content -->
            <section class="content">
              <div class="row">
                <div class="col-sm-9">
                        <h1 class="page-header"><?php echo $cat['name']; ?></h1>
                              <?php
```

```php
$conn = $pdo->open();

try{
    $inc = 3;
    $stmt = $conn->prepare("SELECT * FROM products WHERE category_id = :catid");

    $stmt->execute(['catid' => $catid]);
    foreach ($stmt as $row) {
        $image = (!empty($row['photo'])) ? 'images/'.$row['photo'] : 'images/noimage.jpg';

        $inc = ($inc == 3) ? 1 : $inc + 1;
        if($inc == 1) echo "<div class='row'>";
        echo "
            <div class='col-sm-4'>
                <div class='box box-solid'>
                    <div class='box-body prod-body'>
                        <img src='".$image."' width='100%' height='230px' class='thumbnail'>
                        <h5><a href='product.php?product=".$row['slug']."'>".$row['name']."</a></h5>
                    </div>
                    <div class='box-footer'>
                        <b>&#36; ".number_format($row['price'], 2)."</b>
                    </div>
                </div>
            </div>
        ";
        if($inc == 3) echo "</div>";
    }
    if($inc == 1) echo "<div class='col-sm-4'></div><div class='col-sm-4'></div></div>";

    if($inc == 2) echo "<div class='col-sm-4'></div></div>";
}
catch(PDOException $e){
    echo "There is some problem in connection: " . $e->getMessage();
}

$pdo->close();

?>
        </div>
        <div class="col-sm-3">
            <?php include 'includes/sidebar.php'; ?>
        </div>
    </div>
```

```
        </section>

      </div>
    </div>

      <?php include 'includes/footer.php'; ?>
</div>

<?php include 'includes/scripts.php'; ?>
</body>
</html>
```

5.6 SEARCH.PHP

```php
<?php include 'includes/session.php'; ?>
<?php include 'includes/header.php'; ?>
<body class="hold-transition skin-blue layout-top-nav">
<div class="wrapper">

        <?php include 'includes/navbar.php'; ?>

      <div class="content-wrapper">
        <div class="container">

          <!-- Main content -->
          <section class="content">
            <div class="row">
              <div class="col-sm-9">
              <?php

                            $conn = $pdo->open();

                            $stmt = $conn->prepare("SELECT COUNT(*) AS numrows FROM
products WHERE name LIKE :keyword");
                            $stmt->execute(['keyword' => '%'.$_POST['keyword'].'%']);
                            $row = $stmt->fetch();
                            if($row['numrows'] < 1){
                                    echo '<h1 class="page-header">No results found for
<i>'.$_POST['keyword'].'</i></h1>';
                            }
                            else{
                            echo '<h1 class="page-header">Search results for
<i>'.$_POST['keyword'].'</i></h1>';
                                    try{
                                        $inc = 3;
                                        $stmt = $conn->prepare("SELECT * FROM products
WHERE name LIKE :keyword");
```

43

```php
                                                    $stmt->execute(['keyword' =>
'%'.$_POST['keyword'].'%']);

                                                    foreach ($stmt as $row) {
                                                        $highlighted = preg_filter('/' .
preg_quote($_POST['keyword'], '/') . '/i', '<b>$0</b>', $row['name']);
                                                        $image = (!empty($row['photo'])) ?
'images/'.$row['photo'] : 'images/noimage.jpg';

                                                        $inc = ($inc == 3) ? 1 : $inc + 1;
                                                        if($inc == 1) echo "<div class='row'>";
                                                        echo "
                                                                <div class='col-sm-4'>
                                                                        <div class='box box-solid'>
                                                                                <div class='box-body prod-
body'>
                                                                                        <img src='".$image."'
width='100%' height='230px' class='thumbnail'>
                                                                                        <h5><a
href='product.php?product=".$row['slug']."'>".$highlighted."</a></h5>
                                                                                </div>
                                                                                <div class='box-footer'>
                                                                                        <b>&#36;
".number_format($row['price'], 2)."</b>
                                                                                </div>
                                                                        </div>
                                                                </div>
                                                        ";
                                                        if($inc == 3) echo "</div>";
                                                    }
                                                    if($inc == 1) echo "<div class='col-sm-4'></div><div
class='col-sm-4'></div></div>";

                                                    if($inc == 2) echo "<div class='col-sm-
4'></div></div>";

                                                }
                                                catch(PDOException $e){
                                                        echo "There is some problem in connection: " . $e-
>getMessage();
                                                }
                                        }

                                        $pdo->close();

                        ?>
                </div>
                <div class="col-sm-3">
                        <?php include 'includes/sidebar.php'; ?>
                </div>
          </div>
        </section>
```

```
            </div>
          </div>

        <?php include 'includes/footer.php'; ?>
</div>

<?php include 'includes/scripts.php'; ?>
</body>
</html>
```

5.7 TRANSACTION.PHP

```php
<?php
        include 'includes/session.php';

        $id = $_POST['id'];

        $conn = $pdo->open();

        $output = array('list'=>");

        $stmt = $conn->prepare("SELECT * FROM details LEFT JOIN products ON
products.id=details.product_id LEFT JOIN sales ON sales.id=details.sales_id WHERE
details.sales_id=:id");
        $stmt->execute(['id'=>$id]);

        $total = 0;
        foreach($stmt as $row){
                $output['transaction'] = $row['pay_id'];
                $output['date'] = date('M d, Y', strtotime($row['sales_date']));
                $subtotal = $row['price']*$row['quantity'];
                $total += $subtotal;
                $output['list'] .= "
                        <tr class='prepend_items'>
                                <td>".$row['name']."</td>
                                <td>&#36; ".number_format($row['price'], 2)."</td>
                                <td>".$row['quantity']."</td>
                                <td>&#36; ".number_format($subtotal, 2)."</td>
                        </tr>
                ";
        }

        $output['total'] = '<b>&#36; '.number_format($total, 2).'<b>';
        $pdo->close();
        echo json_encode($output);

?>
```

5.8 CART_VIEW.PHP

```php
<?php include 'includes/session.php'; ?>
<?php include 'includes/header.php'; ?>
<body class="hold-transition skin-blue layout-top-nav">
<div class="wrapper">

        <?php include 'includes/navbar.php'; ?>

    <div class="content-wrapper">
     <div class="container">

       <!-- Main content -->
       <section class="content">
        <div class="row">
          <div class="col-sm-9">
                <h1 class="page-header">YOUR CART</h1>
                <div class="box box-solid">
                        <div class="box-body">
                        <table class="table table-bordered">
                                <thead>
                                        <th></th>
                                        <th>Photo</th>
                                        <th>Name</th>
                                        <th>Price</th>
                                        <th width="20%">Quantity</th>
                                        <th>Subtotal</th>
                                </thead>
                                <tbody id="tbody">
                                </tbody>
                        </table>
                        </div>
                </div>
                <?php
                        if(isset($_SESSION['user'])){
                                echo "
                                        <div id='paypal-button'></div>
                                ";
                        }
                        else{
                                echo "
                                        <h4>You need to <a href='login.php'>Login</a> to
checkout.</h4>
                                ";
                        }
                ?>
          </div>
          <div class="col-sm-3">
                <?php include 'includes/sidebar.php'; ?>
```

```
                </div>
            </div>
          </section>

         </div>
        </div>
        <?php $pdo->close(); ?>
        <?php include 'includes/footer.php'; ?>
</div>

<?php include 'includes/scripts.php'; ?>
<script>
var total = 0;
$(function(){
        $(document).on('click', '.cart_delete', function(e){
                e.preventDefault();
                var id = $(this).data('id');
                $.ajax({
                        type: 'POST',
                        url: 'cart_delete.php',
                        data: {id:id},
                        dataType: 'json',
                        success: function(response){
                                if(!response.error){
                                        getDetails();
                                        getCart();
                                        getTotal();
                                }
                        }
                });
        });

        $(document).on('click', '.minus', function(e){
                e.preventDefault();
                var id = $(this).data('id');
                var qty = $('#qty_'+id).val();
                if(qty>1){
                        qty--;
                }
                $('#qty_'+id).val(qty);
                $.ajax({
                        type: 'POST',
                        url: 'cart_update.php',
                        data: {
                                id: id,
                                qty: qty,
                        },
                        dataType: 'json',
                        success: function(response){
                                if(!response.error){
```

```
                                        getDetails();
                                        getCart();
                                        getTotal();
                            }
                    }
            });
    });

    $(document).on('click', '.add', function(e){
            e.preventDefault();
            var id = $(this).data('id');
            var qty = $('#qty_'+id).val();
            qty++;
            $('#qty_'+id).val(qty);
            $.ajax({
                    type: 'POST',
                    url: 'cart_update.php',
                    data: {
                            id: id,
                            qty: qty,
                    },
                    dataType: 'json',
                    success: function(response){
                            if(!response.error){
                                    getDetails();
                                    getCart();
                                    getTotal();
                            }
                    }
            });
    });

    getDetails();
    getTotal();

});

function getDetails(){
    $.ajax({
            type: 'POST',
            url: 'cart_details.php',
            dataType: 'json',
            success: function(response){
                    $('#tbody').html(response);
                    getCart();
            }
    });
}

function getTotal(){
```

```
        $.ajax({
                type: 'POST',
                url: 'cart_total.php',
                dataType: 'json',
                success:function(response){
                        total = response;
                }
        });
}
</script>
<!-- Paypal Express -->
<script>
paypal.Button.render({
    env: 'sandbox', // change for production if app is live,

        client: {
        sandbox:    'ASb1ZbVxG5ZFzCWLdYLi_d1-
k5rmSjvBZhxP2etCxBKXaJHxPba13JJD_D3dTNriRbAv3Kp_72cgDvaZ',
        //production: 'AaBHKJFEej4V6yaArjzSx9cuf-
UYesQYKqynQVCdBlKuZKawDDzFyuQdidPOBSGEhWaNQnnvfzuFB9SM'
    },

    commit: true, // Show a 'Pay Now' button

    style: {
        color: 'gold',
        size: 'small'
    },

    payment: function(data, actions) {
        return actions.payment.create({
            payment: {
                transactions: [
                    {
                        //total purchase
                        amount: {
                                total: total,
                                currency: 'USD'
                        }
                    }
                ]
            }
        });
    },

    onAuthorize: function(data, actions) {
        return actions.payment.execute().then(function(payment) {
                        window.location = 'sales.php?pay='+payment.id;
        });
    },
```

```
}, '#paypal-button');
</script>
</body>
</html>
```

CHAPTER 6

TESTING

6.1 : TESTING

6.1.1 INTRODUCTION

Testing is an investigation conducted to provide stakeholders with information about the quality of the software product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation. Test techniques include the process of executing a program or application with the intent of finding software bugs (errors or other defects), and verifying that the software product is fit for use. Software testing involves the execution of a software component or system component to evaluate one or more properties of interest. In general, these properties indicate the extent to which the component or system under test:

- meets the requirements that guided its design and development,

- responds correctly to all kinds of inputs,

- performs its functions within an acceptable time,

- it is sufficiently usable,

- can be installed and run in its intended environments, and

- Achieves the general result its stakeholder's desire.

6.1.2 TEST CASES

6.1.2.1 Testing shopping cart

Some quantity of products was inserted into the shopping cart, and then we proceeded to check out. When we checked out and tested with Paypal, the cart became empty. This indicates that the cart works appropriately as it should. The "cart_fetch.php" file is responsible for handling the cart of the shop. When an editor runs the file "index.php" the cart() function is called which insert products into the database. After that, the view cart() function can also be invoked to show the product in the cart. The customer can manipulates his cart such as updating the cart or, adding a product to cart.

6.1.2.2 Customer checking out

The customer can only check out if he has logged in as a customer. Without being a customer, he is unable to checkout successfully.

CHAPTER 7

CONCLUSION

Admin has full control of the system, he/she can view daily/monthly sales report for each year, manage all existing users, add, view, edit, delete products and categories. Monthly sales report is represented in the form of Bar Graphs. While adding products, the admin has to provide Product's name, select category, price, upload product's photo and write a description. Adding a product category is simple, the admin just has to provide Category name. Just like the other popular e-commerce, here while looking a product's image the images magnifies whenever mouse cursor is dragged onto it. The system redirects to Paypal for checkout. A responsive dashboard is provided in the admin panel for the easy management of the site.

In short, this E-commerce site in PHP project is a bit similar with a WordPress e-commerce site. Mostly, the adding description has the same feature of that of WordPress. All the important features that are required for an eCommerce site is set for this project. Design of this project is pretty simple and responsive so that user won't find it difficult to understand, use and navigate.

BIBILIOGRAPHY

- https://www.tutorialspoint.com/index.htm
- https://www.javatpoint.com
- https://www.w3schools.com
- https://html.com