VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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A Web Application Mini Project Report
on

"ONLINE AUCTION PORTAL"

Submitted in Partial fulfillment of the Requirements for the VII Semester of the Degree of

Bachelor of Engineering
In
Computer Science & Engineering
By

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CERTIFICATE

This is to certify that the Web Application Project work entitled **"ONLINE AUCTION PORTAL"** has been carried out by **Karthik Hosur (1CR16CS067)** and **Nikita Parikh (1CR16CS105)** bonafide students of CMR Institute of Technology in partial fulfillment for the award of **Bachelor of Engineering** in **Computer Science and Engineering** of the Visvesvaraya Technological University, Belgaum during the year **2019-2020**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. This Web Project Report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

Mrs. Gopika
Assistant Professor
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Signature of HOD

Dr. Prem Kumar Ramesh
Professor, Head
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External Viva

Name of the examiners | Signature with date

1.

2.

ABSTRACT

An auction is a process of buying and selling goods or services by offering them up for bid, taking bids, and then selling the item to the highest bidder. The word "auction" is derived from the Latin augeō which means "I increase" or "I augment". auctions have a long history, having been recorded as early as 500 B.C.

"BIDNOW" is an online auction web site aimed at taking the auction to the fingertips of aspiring bidders there by opening up the doors of the "OPEN Auction House' to a wider society. This site also acts as an open forum where buyers and sellers can come together and exchange their products. The site makes sure that the sellers get a fair deal and buyers get a genuine product.

The selling price in an auction is determined by the bids made by interested buyers. The price they bid is based on their own valuation of, and need for, the product. The product is sold to the highest bidder. A potential buyer participates by bidding on an item that a seller has listed. The person who has offered the highest bid at close of auction wins the right to purchase the item at that price. An auction is a sale in which a seller presents his product on a public platform/ forum. The selling price in an auction is determined by the bids made by interested buyers. The price they bid is based on their own valuation of, and need for, the product. The product is sold to the highest bidder. A potential buyer participates by bidding on an item that a seller has listed. The person who has offered the highest bid at close of auction wins the right to purchase the item at that price.

ACKNOWLEDGEMENT

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Karthik Hosur (1CR16CS067)
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CHAPTER 1

INTRODUCTION

Auctions are among the oldest economic institutions in place. They have been used since antiquity to sell a wide variety of goods, and their basic form has remained unchanged. In this dissertation, we explore the efficiency of common auctions when values are interdependent- the value to a bidder may depend on information available only to others-and asymmetric.

Typically, in an auction, say of the kind used to sell art, the auctioneer sets a relatively low initial price. This price is then increased until only one bidder is willing to buy the object, and the exact way this is done varies. In my model a bidder who drops out at some price can "reenter" at a higher price.

With the invention of E-commerce technologies over the Internet the opportunity to bid from the comfort of one's own home has seen a change like never seen before. Within the span of a few short years, what may have begun as an experimental idea has grown to an immensely popular hobby, and in some cases, a means of livelihood, the online auction gathers tremendous response every day, all day. With the point and click of the mouse, one may bid on an item they may need or just want, and in moments they find that either they are the top bidder or someone else wants it more, and you're outbid! The excitement of an auction all from the comfort of home is a completely different experience.

Thus, the project is a sincere effort in simplifying the task of auctioning a product in an easily usable format. We finalized to make this project and hence planned to develop this system with HTML and CSS for the front end and MySQL as the back end.

CHAPTER 2

SYSTEM REQUIREMENTS

Hardware Requirements

Processors: Intel i3, i5, i7

Processor Speed: 3.00GHZ

RAM: 4GB

Storage: 500GB

Monitor: 15 inches

Keyboard: Standard 102 keys

Mouse: Standard 3 buttons

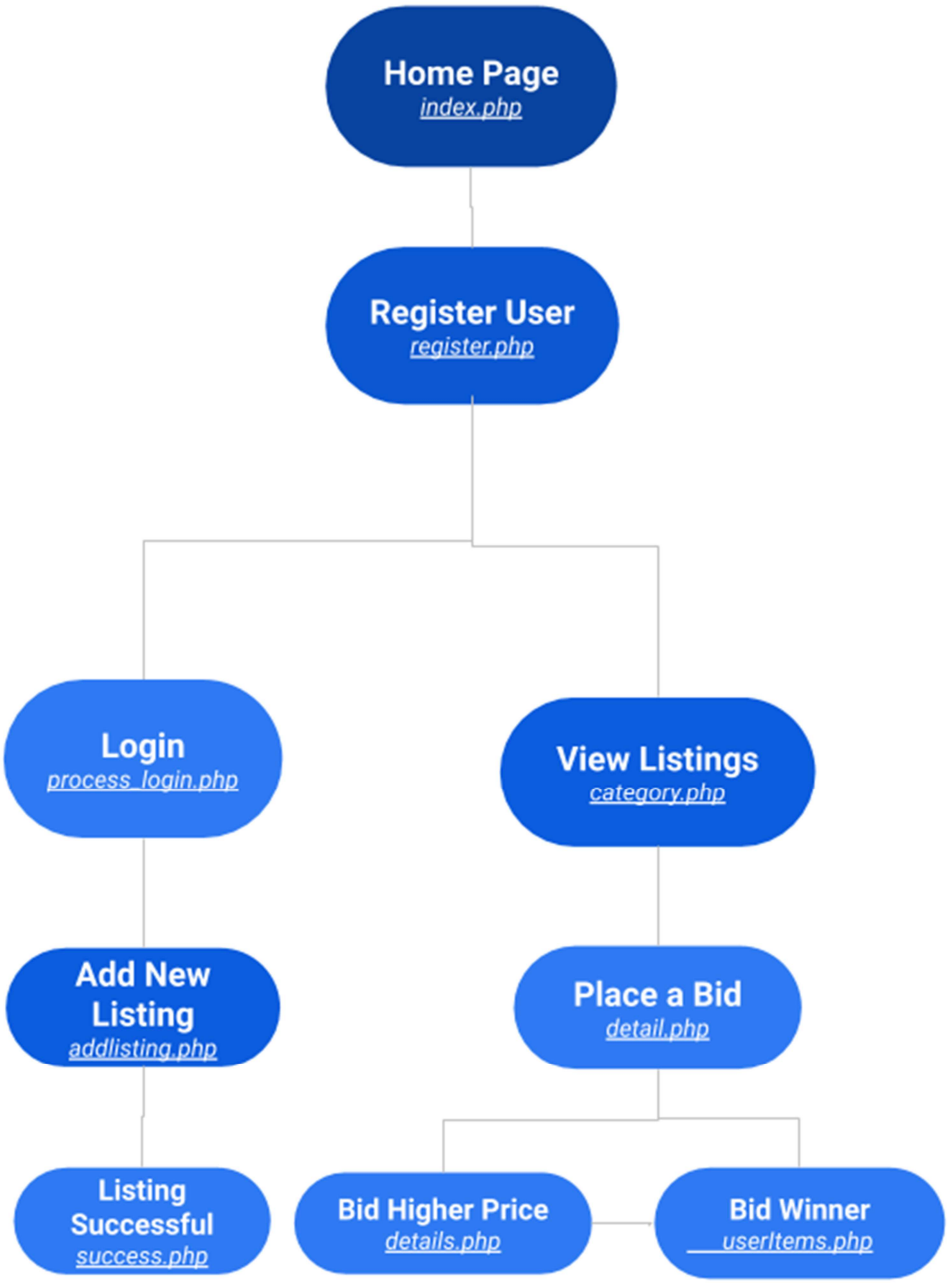
Software Requirements

1) Operating System can be either Windows/Linux. The project is compatible with either of them.
2) XAMPP Server required to simulate DBMS environment.

CHAPTER 3

DESIGN

DIAGRAM 3.1: WEBSITE FLOWCHART



HOME PAGE: It contains all the listings of items to bid in the following categories:

- Latest products
- Different product types (Example: Electronics, Watches, Jewelry)
- Connects to Register user and Login user

REGISTER PAGE: It allows you to register a new user who can perform the following functionalities:

- Add a new product to the listing
- Bid on a listed product

LOGIN PAGE: It allows an existing user to login to his account to perform the following tasks:

- Add a new product to the listing
- Bid on a listed product

VIEW LISTING: It allows users to view all the listing in the category chosen in a Grid format.

ADD LISTING: It allows you to fill up a form to add a new listing to the website which can have constraints like:

- Minimum Price for the item
- Expected Price for the item
- Auction deadline

PLACE A BID PAGE: It allows a user to place a bid or purchase a product at its expected price. The user needs to follow the following constraints to place a bid:

1. The value of the new bid should be greater than the minimum value or the previous bid value
2. The value of the new bid should be at least Rs.50 greater than the previous value
3. The value of the new bid should not be greater than the expected bid value.
4. The new bid needs to be placed within the auction deadline

USER ITEMS PAGE: It allows a user to view all the bids he has won as well as the items that he has listed

CHAPTER 4

IMPLEMENTATION

We used Bootstrap CSS for designing the GUI. These enable us to create a attractive GUI and also we have incorporated Google APIs for the functionalities of fonts and maps.

We used PHP to establish a connection with the database. Also, PHP provided us with the facilities of working with HTML.

Lastly, I made use of XAMPP Server which enabled us to simulate a MySQL Server Environment. It allowed us to create a various number of tables and also to create stored procedure.

Technologies used in the project:

PHP: Set up connection between the website and database

HTML: Page layout has been designed in HTML

CSS: CSS has been used for all the designing part

JavaScript: All the validation task and animations has been developed on JS

MySQL: MySQL database has been used as database for the project

Apache: Project will run over the Apache server

CHAPTER 5

CODE

Creating PHP connection to Database

```
<?php $db = mysqli_connect('localhost','root','','shop')
      or die('Error connecting to MySQL server.');
  ?>
```

Register a new user

```
<?php
session_start();
   if (isset($_POST['register']))
   {
      $fname = $_POST['fname'];
      $lname = $_POST['lname'];
      $addr = $_POST['addr'];
      $cno = $_POST['cno'];
      $username = strip_tags($_POST['username']);
      $password = md5(strip_tags($_POST['password']));
      //check whether there's already a user having the same username
      $db = mysqli_connect('localhost','root','','shop')
            or die('Error connecting to MySQL server.');
      $query = "SELECT UserID FROM user WHERE Username = '$username' LIMIT 1";
      $result = mysqli_query($db, $query);
      if (mysqli_num_rows($result) == 0)
      {
         $newuser = "INSERT INTO user (Username, Password, Contact_No, Address, FName, LName)
                  VALUES ('$username', '$password', $cno, '$addr', '$fname', '$lname')";

         if (mysqli_query($db, $newuser)) {
            header("location:register.php?success=1");
         } else {
            echo "Error: " . $newuser . "<br>" . mysqli_error($db); } } else {
         //username already exists!
         header("location:register.php?err=2");
      }
   }
?>
```

User Login

```
<?php
session_start();

if (!isset($_SESSION['loginid']) || !isset($_SESSION['username']))
{
   // user is not logged in.
   if (isset($_POST['cmdlogin']))
   {
      // retrieve the username and password sent from login form
      // First we remove all HTML-tags and PHP-tags, then we create a md5-hash
      // This step will make sure the script is not vurnable to sql injections.
      $u = strip_tags($_POST['username']);
      $p = md5(strip_tags($_POST['password']));
      //Now let us look for the user in the database.
      $db = mysqli_connect('localhost','root','','shop')
            or die('Error connecting to MySQL server.');
      $query = "SELECT UserID FROM user WHERE Username = '$u' AND Password = '$p' LIMIT 1";
      $result = mysqli_query($db, $query);
      // If the database returns a 0 as result we know the login information is incorrect.
      // If the database returns a 1 as result we know  the login was correct and we proceed.

      {
         // invalid login information
         //show the register page again.
         header("location:register.php?err=1");
      } else {
         // Login was successfull
         $row = mysqli_fetch_array($result);
         // Save the user ID for use later
         $_SESSION['userid'] = $row['UserID'];
          // Save the username for use later
         $_SESSION['username'] = $u;
          // Now redirect to homepage
         header("location:index.php");
      }
   }

} else {
    // The user is already loggedin, so we show the home page.
   header("location:index.php");
}
?>
```

Adding a New Listing

```
<?php

                    $userID=$_SESSION['userid'];

                    if(isset($_POST['CategoryID'])){ $CategoryID=$_POST['CategoryID'];}else{$CategoryID=null;}
                    if(isset($_POST['ItemName'])){$ItemName=$_POST['ItemName'];}else{$ItemName=null;}
                    if(isset($_POST['Description'])){$Description=$_POST['Description'];}else{$Description=null;}

                    if(isset($_POST['PhotosID'])){$PhotosID=$_POST['PhotosID'];}else{$PhotosID=null;}
                    if(isset($_POST['StartingPrice'])){$StartingPrice=$_POST['StartingPrice'];}else{$StartingPrice=null;}
                    if(isset($_POST['ExpectedPrice'])){$ExpectedPrice=$_POST['ExpectedPrice'];}else{$ExpectedPrice=null;}
                    if(isset($_POST['EndTime'])){$EndTime=$_POST['EndTime'];}else{$EndTime=null;}


                        $db = mysqli_connect('localhost','root','','shop')
                    or die('Error connecting to MySQL server.');

                    $sql="INSERT INTO item (CategoryID,ItemName,Description, PhotosID, StartingPrice,
ExpectedPrice,currentPrice,EndTime,SellerID)VALUES ('$CategoryID','$ItemName','$Description', '$PhotosID', '$StartingPrice',
'$ExpectedPrice','$StartingPrice', '$EndTime', '$userID') " ;

                    if ($db->query($sql) === TRUE) {
                    //echo "New record created successfully";
                    } else {
                        echo "Error: " . $sql . "<br>" . $db->error;
                    }

                    mysqli_close($db);

                ?>
```

Search a Product

```
?php $db = mysqli_connect('localhost','root','','shop')
        or die('Error connecting to MySQL server.');

        $query1 = "SELECT * FROM category ";
        $result1 = mysqli_query($db, $query1);
        $categories = mysqli_fetch_array($result1);


         include 'header.php';

         if(isset($_POST['keyword'])){ $keyword=$_POST['keyword'];}else{$CategoryID=null;}
```

```
        $query2 = "SELECT * FROM item where ItemName like '%$keyword%' ";
        $result2 = mysqli_query($db, $query2);
        $searchResults = mysqli_fetch_array($result2);


        ?>
```

Place a Bid

```
<?php
        function updater($value,$id,$leastValue,$ExpectedValue,$userID){
                                // Create connection
                        $db = mysqli_connect('localhost','root','','shop')
                                or die('Error connecting to MySQL server.');


                if ($db->connect_error) {
                                    die("Connection failed: " . $db->connect_error);
                                }

                $sql = "UPDATE item SET CurrentPrice='{$value}' WHERE ItemID='$id'";


 if (($value < $ExpectedValue )&& $value > $leastValue && $db->query($sql) == TRUE)
{
   echo '<div class="alert alert-success" <strong>Success!</strong> Your Bid Placed. </div>';
                                    echo "<meta http-equiv='refresh' content='0'>";


 $sql2="INSERT INTO bids (ItemID,BidderID,BidAmount)VALUES ('$id','$userID','$value') " ;
                                    if ($db->query($sql2) === TRUE) {
                                     //echo "New record created successfully";
                                       } else {
                                    echo "Error: " . $sql2 . "<br>" . $db->error;
                                       }

                                } else {
                            echo '<div class="alert alert-danger">
                    <strong>Bid not Placed !</strong> The amount entered is not valid !
                                        </div>' . $db->error;
                                }
                                $db->close();
                            }

                                if(isset($_POST['bidValue'])){
                                    if (isset($_SESSION['userid'])) {
                        updater($_POST['bidValue'],$ItemNo,$leastValue,$ExpectedValue,$_SESSION['userid']);
                                    } else {
```

```
                                echo '
                                <div class="alert alert-info">
    <strong>Sorry!</strong> You need to <a href="register.php">log in</a> to bid on items.
                                </div>
                                ';
                            } }

                        ?>
```

View to the listing

```
<?php
                while($list) {


                ?>

                <div class="col-md-4 col-sm-6">
                    <div class="product">
                        <div class="flip-container">
                            <div class="flipper">
                                <div class="front">
                                    <a href="detail.php?ItemNo=<?php echo $list['ItemID'] ?>">
                                        <img src="<?php echo $list['PhotosID'];?>" alt="" class="img-responsive">
                                    </i-a>
                                </div>
                                <div class="back">
                                    <a href="detail.php?ItemNo=<?php echo $list['ItemID'] ?>">
                                        <img src="<?php echo $list['PhotosID'];?>" alt="" class="img-responsive">
                                    </a>
                                </div>
                            </div>
                        </div>
                        <a href="detail.html" class="invisible">
                            <img src="img/product1.jpg" alt="" class="img-responsive">
                        </a>
                        <div class="text">
                            <h3><a href="detail.php?ItemNo=<?php echo $list['ItemID'] ?>"><?php echo $list['ItemName'] ?></a></h3>
                            <p class="price">Rs : <?php echo number_format($list['CurrentPrice'],2);?></p>
                            <p class="buttons">
                                <a href="detail.php?ItemNo=<?php echo $list['ItemID'] ?>" class="btn btn-default">View detail</a>
                                <a href="basket.html" class="btn btn-primary"><i class="fa fa-shopping-cart"></i>Buy Now</a>
                            </p>
                        </div>
                        <!-- /.text -->
                    </div>
                    <!-- /.product -->
                </div>
```

```
                <?php
                 $list = $result->fetch_assoc(); }


                 ?>
               </div>
               <!-- /.products -->

          </div>
          <!-- /.container -->
      </div>
      <!-- /#content -->
```

Logout

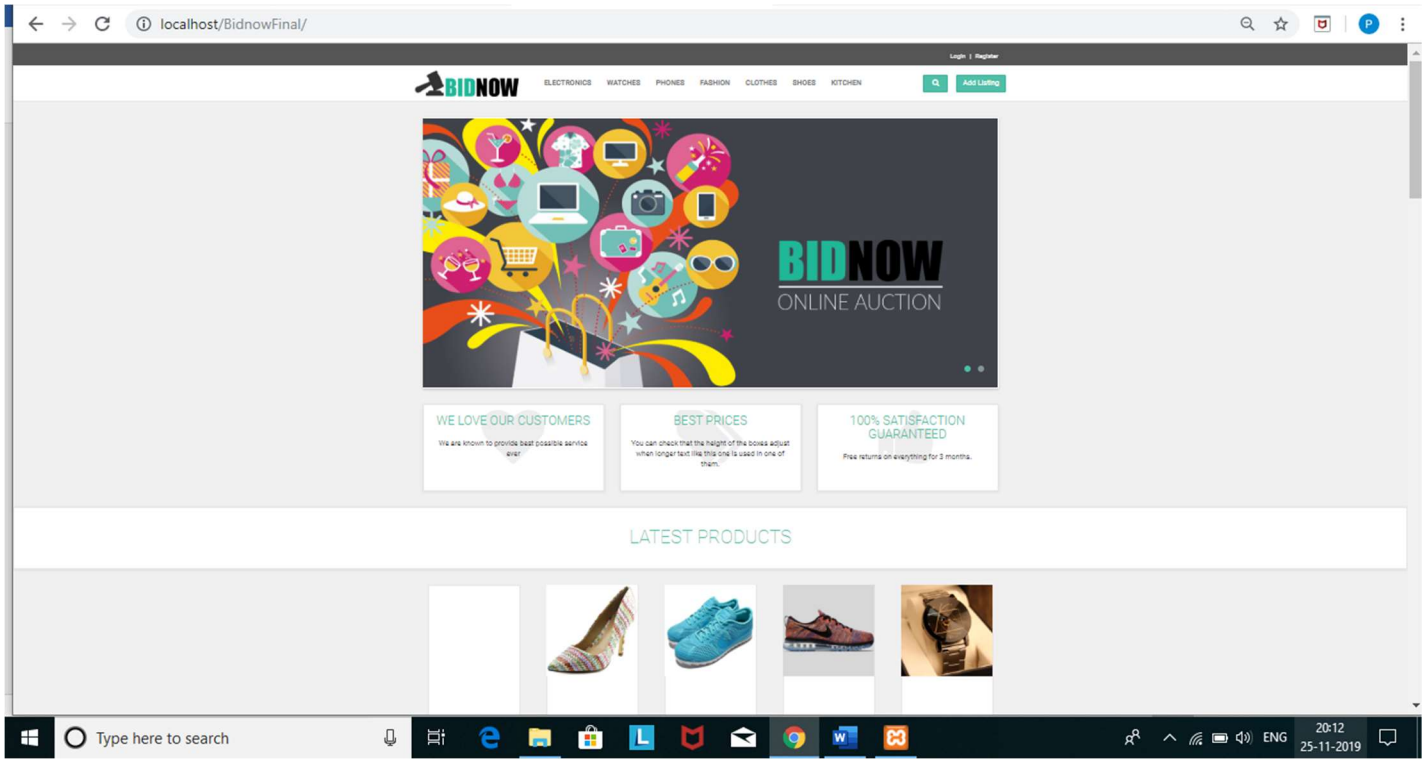
```
<?php
session_start();
if( !isset($_SESSION['loginid']) && !isset($_SESSION['username']) ) {
  header('Location: index.php');
  session_destroy();
} else {
  unset($_SESSION['loginid']);
  unset($_SESSION['username']);
  session_destroy();
  header('Location: index.php');
}
?>
```

CHAPTER 6

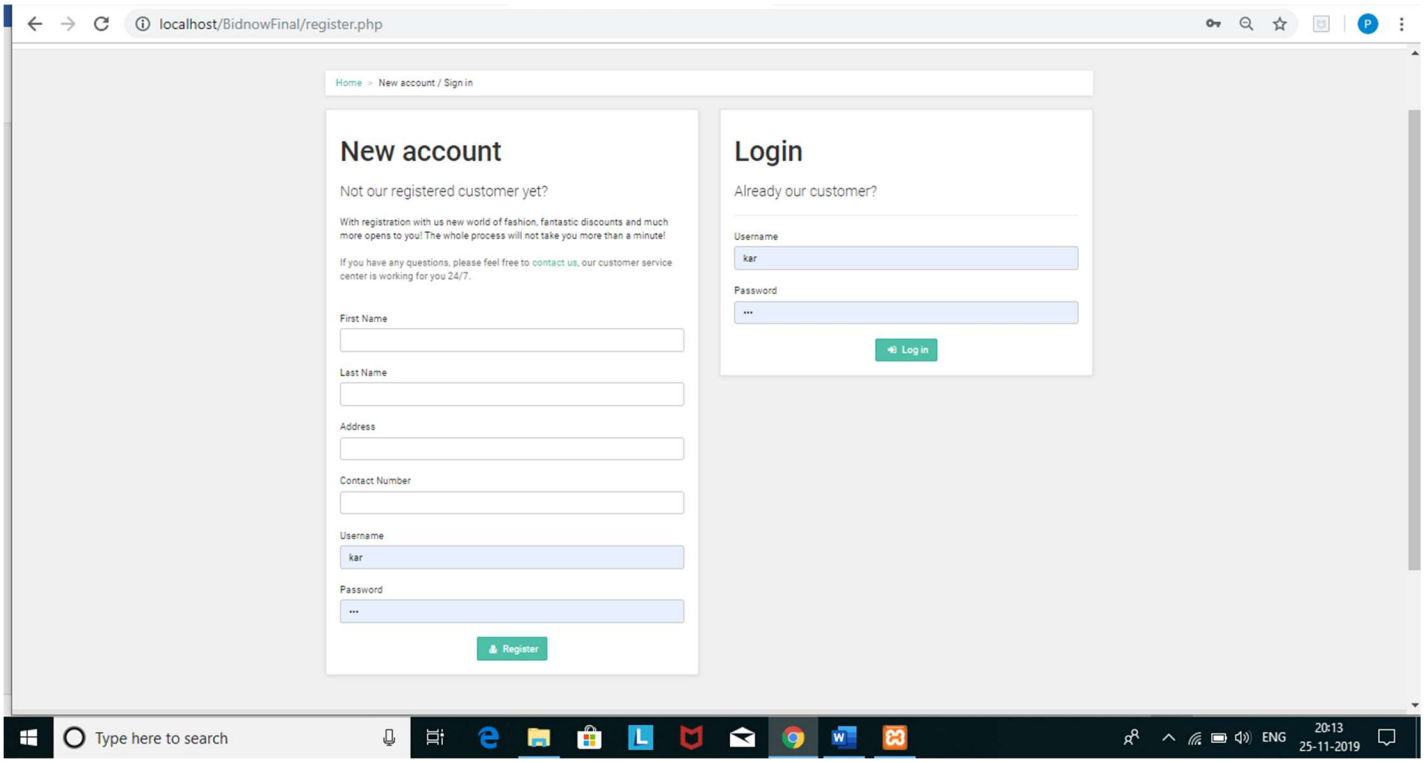
SCREENSHOTS

The following are the screenshots:

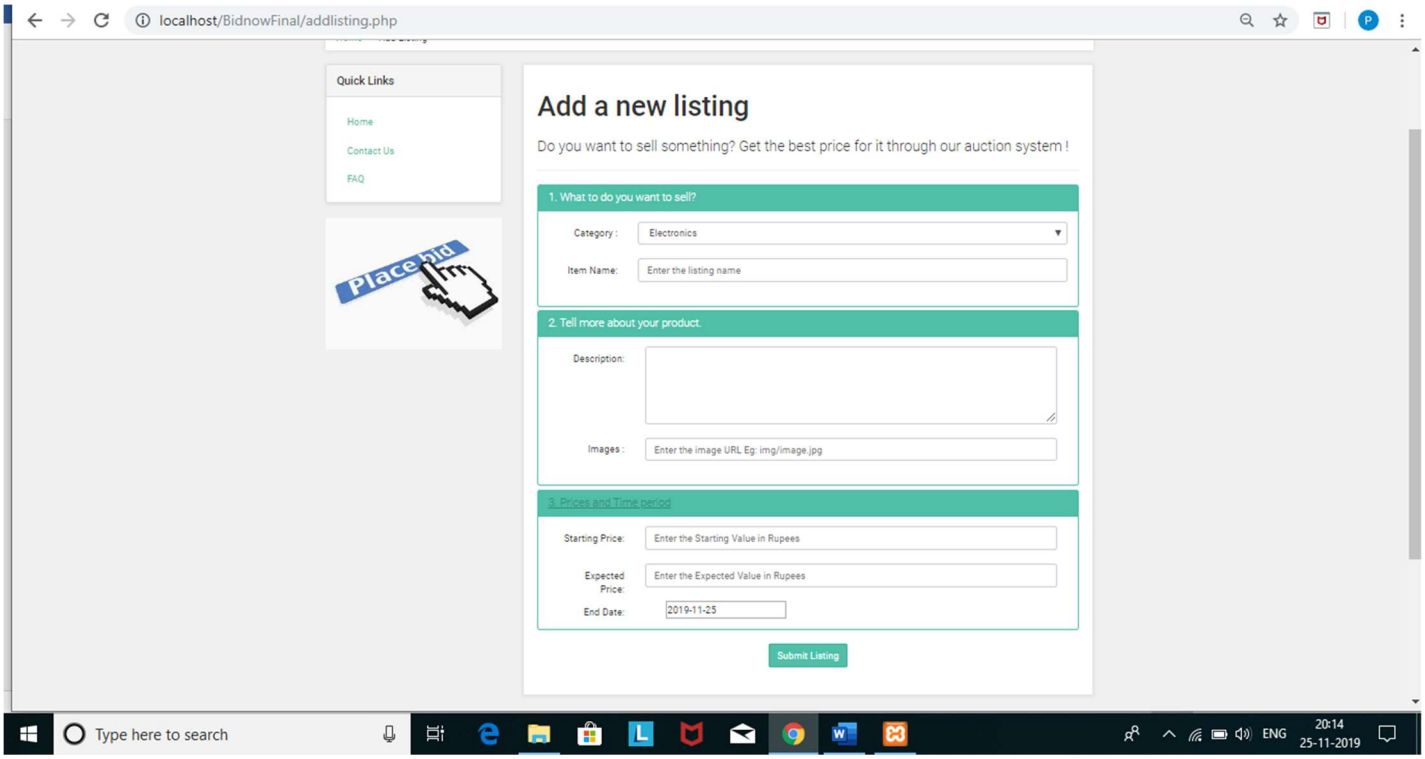
PICTURE 6.1: HOME PAGE



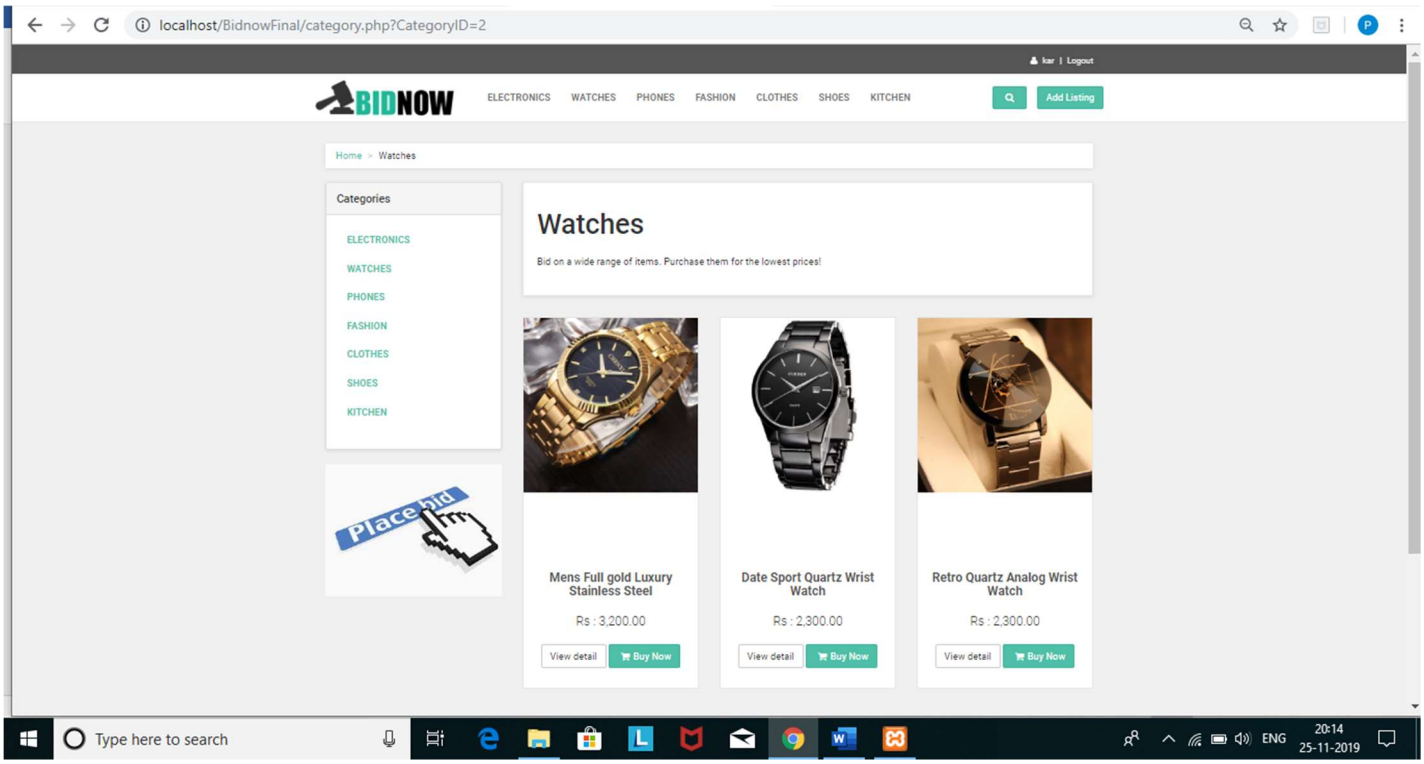
PICTURE 6.2: REGISTRATION PAGE



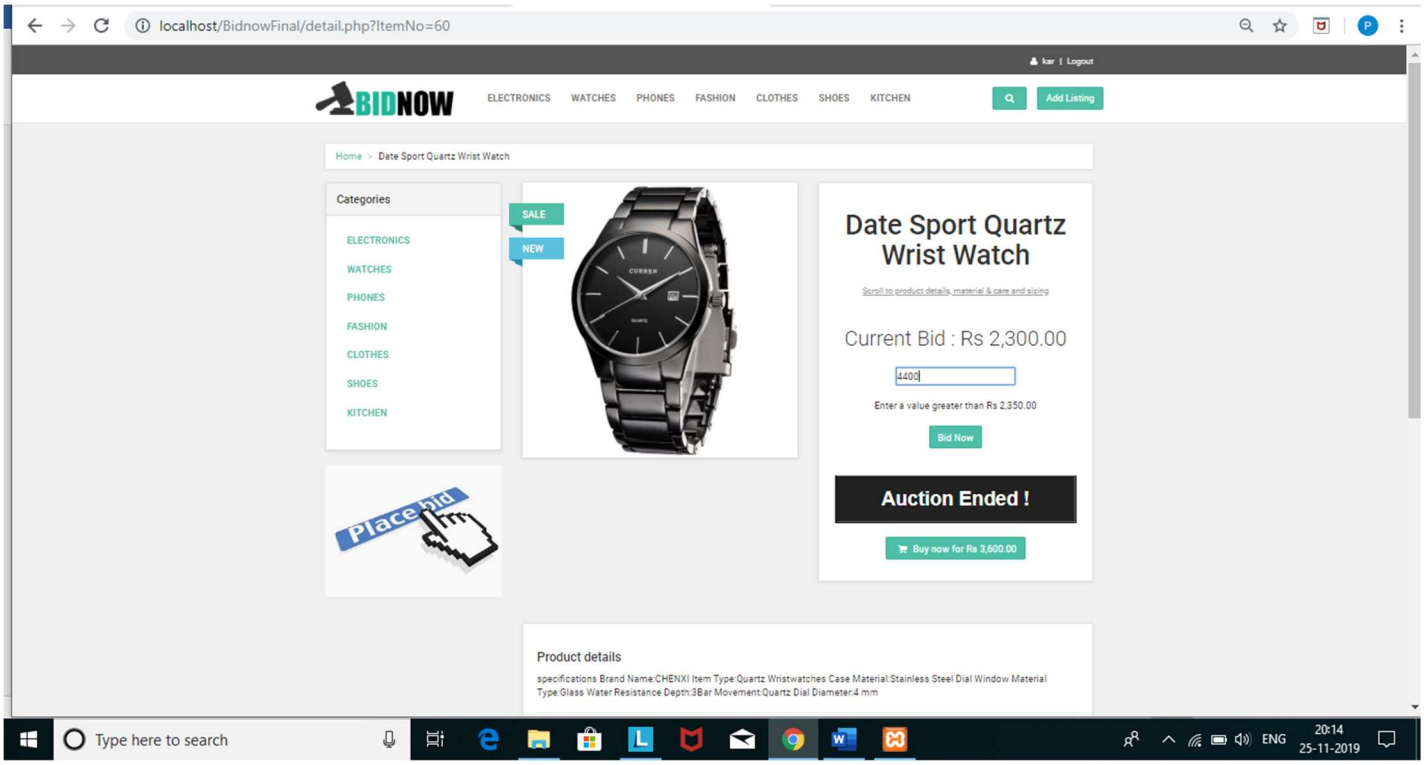
PICTURE 6.3: ADD NEW LISTING PAGE



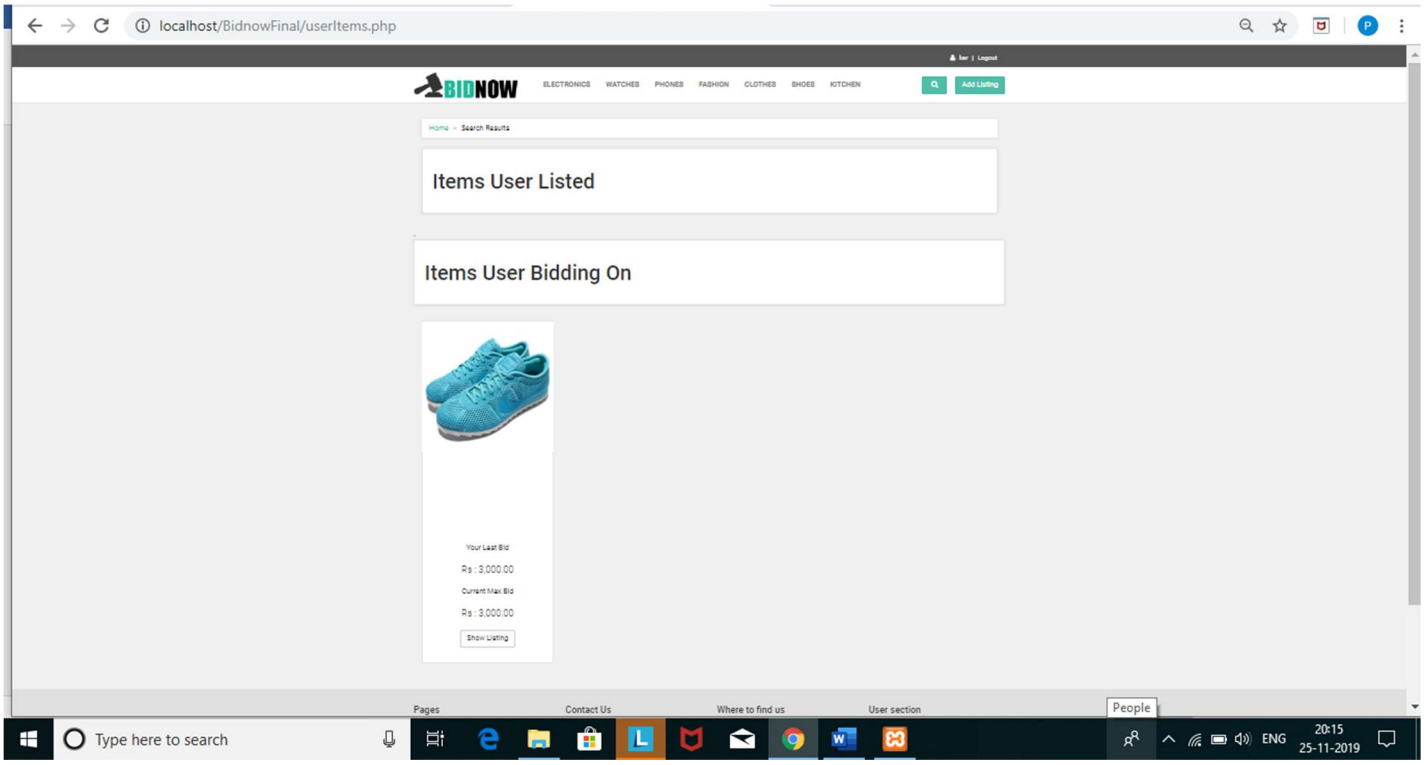
PICTURE 6.4: VIEW LISTINGS



PICTURE 6.5: PLACE A BID PAGE



PICTURE 6.6: VIEW USER LISTING



CHAPTER 7

CONCLUSION AND FUTURE SCOPE

This is to conclude that the project we undertook has been worked upon with sincere effort and has been completed successfully. The requirements and goals of the project have been achieved. The desktop application has been thoroughly tested and can now be implemented in the real world to implement Auction Systems. By this project we hope to bring satisfaction to the users and meet their expectations.

BIBLIOGRAPHY

[1] www.youtube.com

[2] www.google.com

[3] www.geeksforgeeks.org