FINAL DOCUMENTATION

PROJECT MANAGEMENT

BOS E-WASTE

TABLE OF CONTENTS

TITLE PAGE i

TABLE OF CONTENTS ii

PREFACE iv

CHAPTER 1 INTRODUCTION 5

1.1 Background 5

1.2 Purpose 5

1.3 Software 5

1.4 Risks 6

CHAPTER II PROJECT MANAGEMENT 7

2.1 Plan 7

2.2 Schedule 7

2.3 Responsibility 8

CHAPTER III DOCUMENT DESIGN 9

3.1 System Planning 9

3.2 Component 10

3.3 User Interface 11

CHAPTER IV IMPLEMENTATON 18

4.1 UML 18

4.1.1 Class Diagram 18

4.1.2 Use Case Diagram 19

4.1.3 Sequence Diagram 19

4.2 Source Code 20

CHAPTER V TESTING AND EVALUATION 26

5.1 Introduction 26

5.2 Register Testing 26

5.3 Login Testing 27

5.4 Post E-Waste Testing 27

CHAPTER VI USER MANUAL 29
CHAPTER VII CONCLUSION 32
REFERENCES 33

PREFACE

CHAPTER I

INTRODUCTION

1.1 BACKGROUND

In 2016, the world produced 44.7 million tons of electronic waste. That number keeps increasing 3-4% every year and it is estimated that in 2021 the amount of electronic waste reaches 52 million tons. There are several companies that reduce electronic waste by implementing a circular economy. Like the Philips lighting company that conducts light rental systems in offices, so the company doesn't need to throw away the broken lights.

Every house must be had electronic stuff. There are stuff can be carried everywhere such as cell phones and other gadgets, but there are also electronic stuff that are can't carried and stored at home, such as televisions, refrigerators, washing machines and others. Because of that, making these stuff damage and cannot be repaired, what can you do? If you throw it away, pay attention the proper way to get rid of it. Because electronic stuff become trash or electronic waste (Electronic Waste) is dangerous for the community.

1.2 PURPOSE

From the statement, a solution emerged from us to create an application "Buy or Sell E-Waste (BOS E-Waste) where people who have unused electronic stuff can auction their goods in this web. So that electronic waste piled up at home can be reduced.

1.3 SOFTWARE

- Programming Language : PHP
- Markup Language : HTML and CSS/Bootstrap
- Tools : Sublime Text 3 and Browser
- Web Hosting : RumahWeb

1.4 RISKS

Very likely, the winner of the auction does not pay for the item they auctioned. Thus, the winner of the second auction replaces. Moreover, it is possible that the goods auctioned are not electronic stuffs. Furthermore, the delivery system for goods that is out of control (cod, courier) make a stuffs that don't match the auctioneer expectations and desire.

CHAPTER II

PROJECT MANAGEMENT

2.1 PLAN

It is important to plan the project with the team so that our contributions and commitment are included and developed. Hold a 'Project Start-up Meeting' and run through **Aims, Objectives,** and **Scope** of the Project.

- **Aim**

  Decrease production of electronic waste in Jakarta.

- **Objectives**

  This auction application used for confront between seller with buyer/auctioneer. This Web based. System which used is auction.

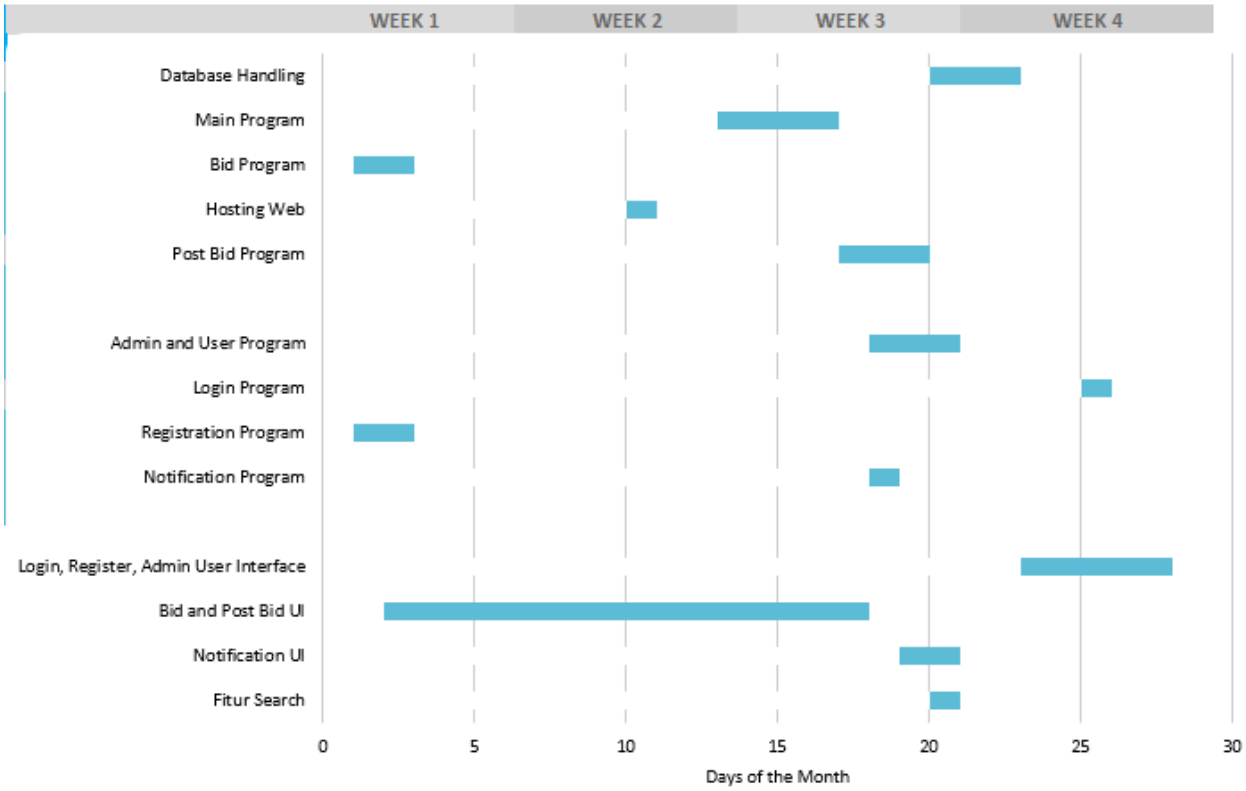
- **Scope**

  Electronic Waste in Jakarta.

2.2 SCHEDULE

The timeline of making this Web application can be seen in this table below:

Web Application Lelang (E-Waste)	START DATE	DAY OF MONTH*	END DATE	DURATION* (WORK DAYS)	DAYS COMPLETE*	DAYS REMAINING*	TEAM MEMBER	PERCENT COMPLETE
Database Handling	2/20	20	2/22	3	3	0	Faqih	100%
Main Program	4/13	13	4/16	4	4	0	Faqih	100%
Bid Program	5/1	1	5/2	2	2	0	Faqih	100%
Hosting Web	5/10	10	5/10	1	1	0	Faqih	100%
Post Bid Program	5/17	17	5/19	3	3	0	Faqih	100%
Admin and User Program	2/18	18	2/20	3	3	0	Fakhrul	100%
Login Program	2/25	25	2/25	1	1	0	Fakhrul	100%
Registration Program	3/1	1	3/2	2	2	0	Fakhrul	100%
Notification Program	5/18	18	5/18	1	1	0	Fakhrul	100%
Login, Register, Admin User	2/23	23	2/27	5	5	0	Alzy	100%
Bid and Post Bid UI	5/2	2	5/17	16	16	0	Alzy	100%
Notification UI	5/19	19	5/20	2	2	0	Alzy	100%
Fitur Search	5/20	20	5/20	1	1	0	Alzy	100%



2.3 RESPONSIBILITY

Name	Responsibility
Fakhrul	Making Back End Programming
Faqih	Making Front End Programming
Alzy	Making Front End Programming

CHAPTER III

DOCUMENT DESIGN

3.1 SYSTEM PLANNING

Plan of making this application we described it with a flowchart:

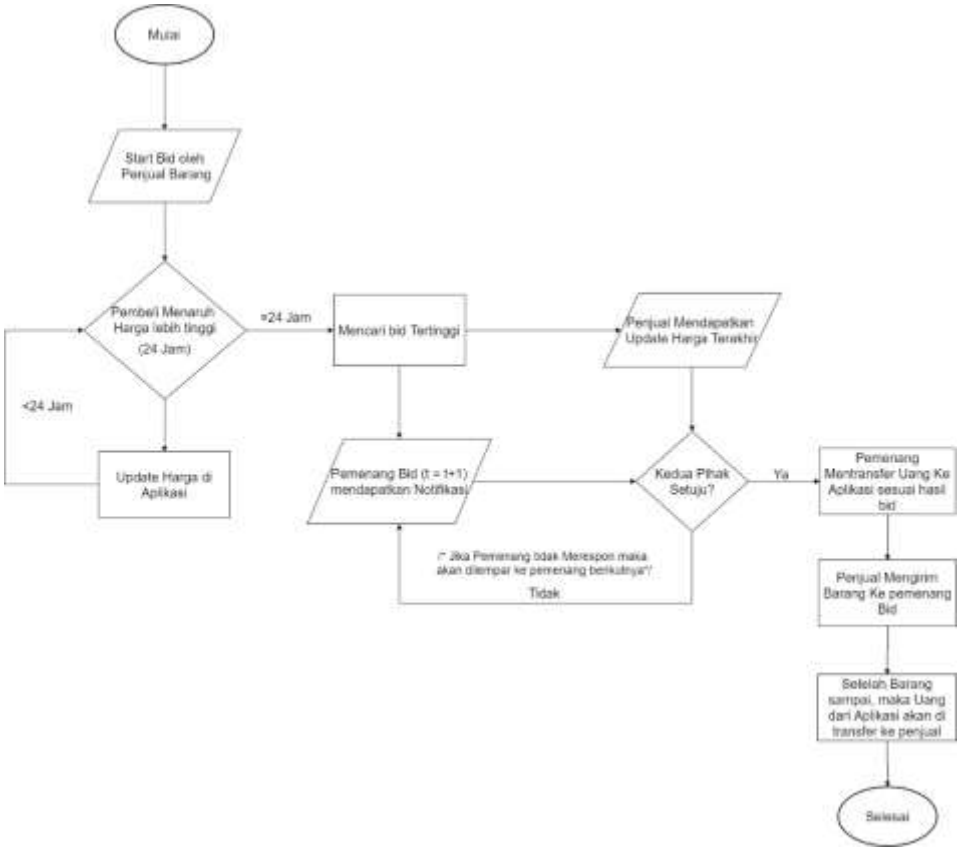


Fig 3.1.1 Flowchart of BoS E-Waste Application

Fig 3.1.1 is flowchart that described how our application works and can be concluded that the simple step to open this application is START→Login/Sign Up→Main Menu →Sell/Buy item→Bid for items →Announce for winner →Finish

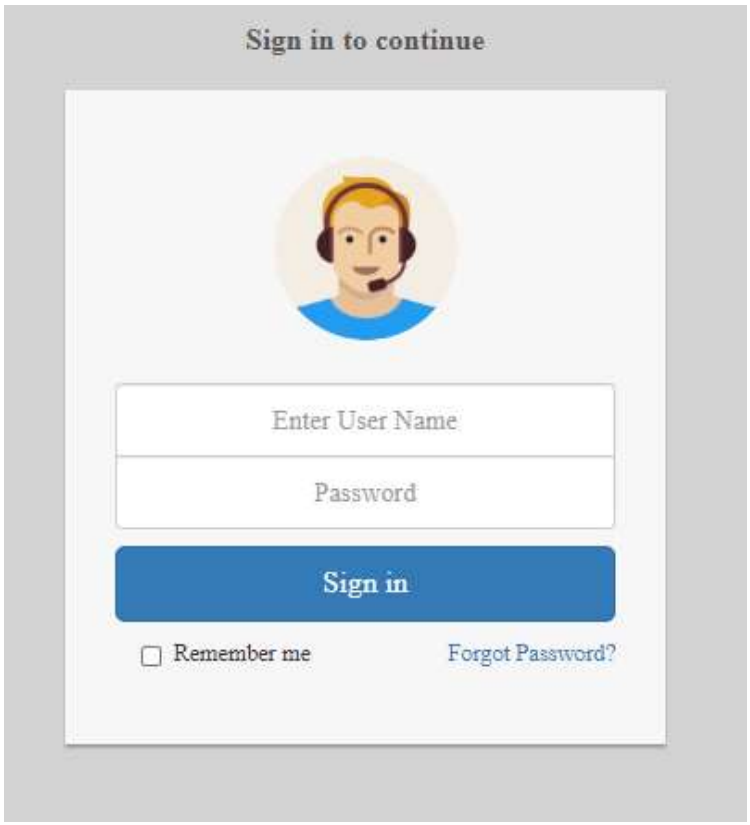
3.2 Component

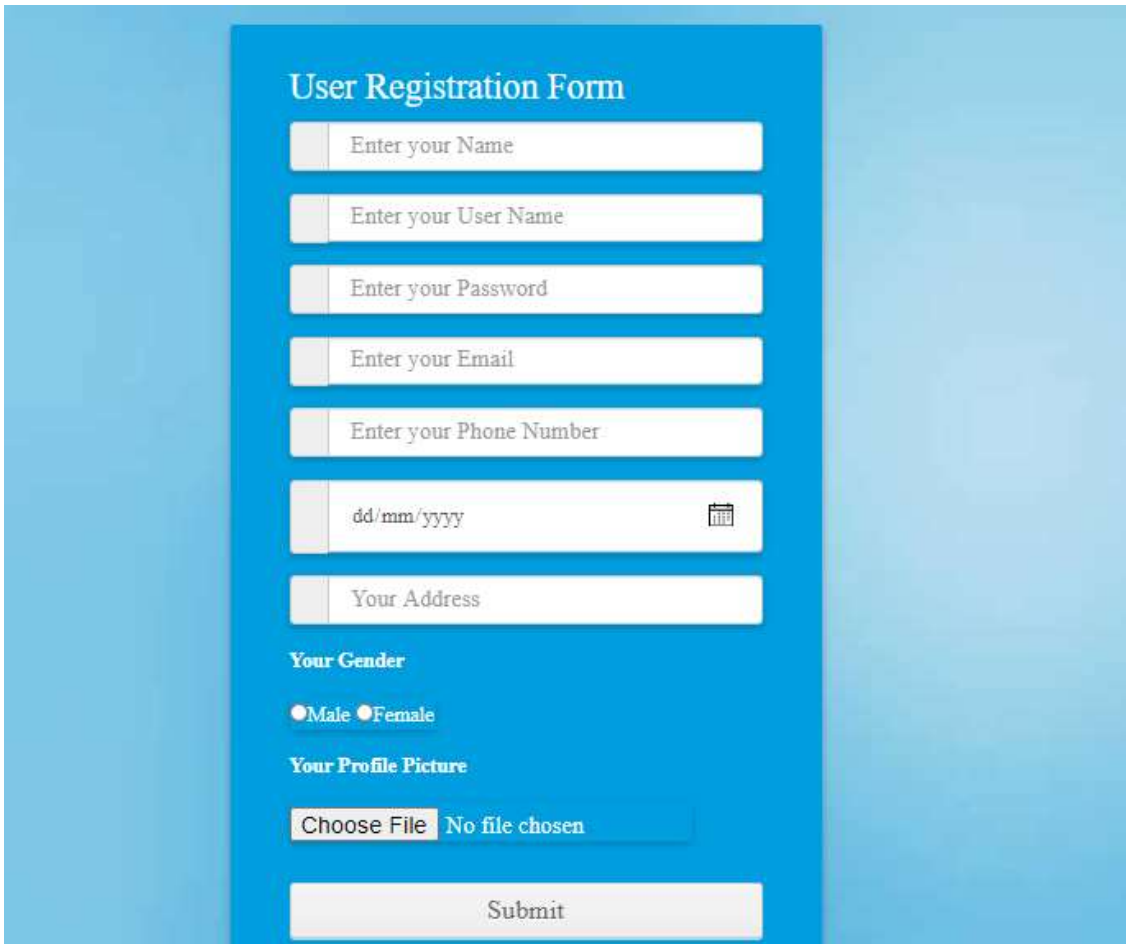
The components that we developed in this Web App consists of seven features. The Features on this Web App are Home Page, Post, MyPost, MyBid, Update Profile, Bidding, and Notification.

3.3 APPLICATION INTERFACE

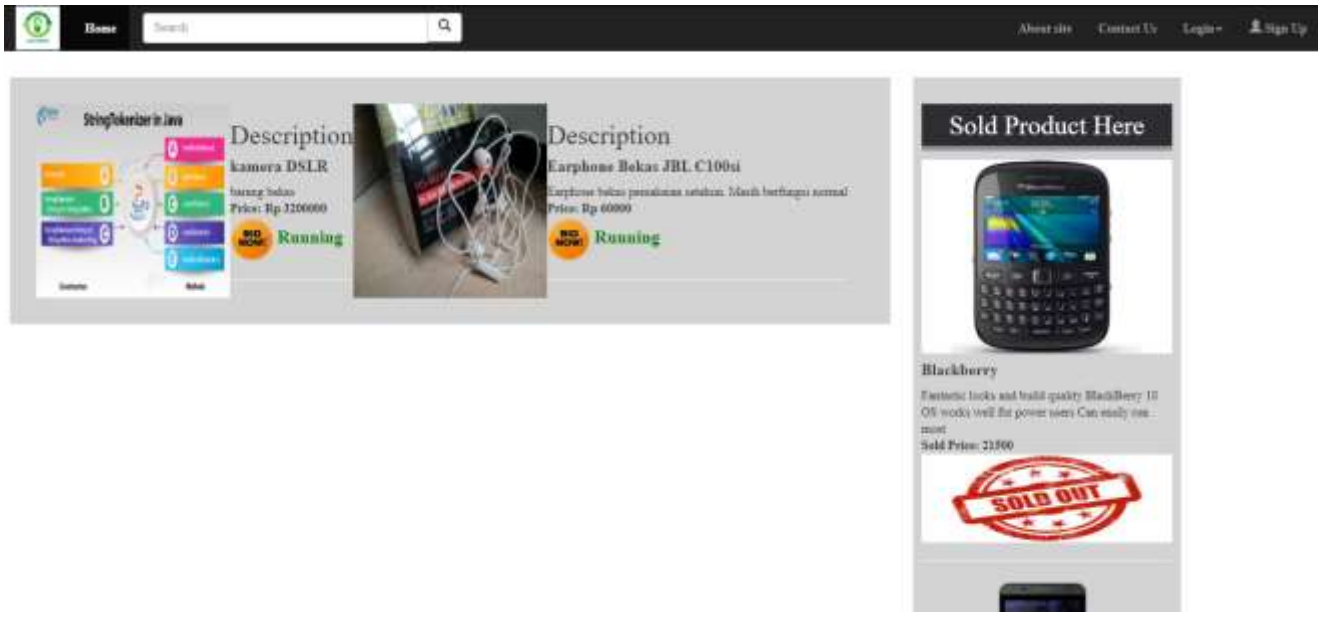
3.3.1 Logo

3.3.2 Login and Register

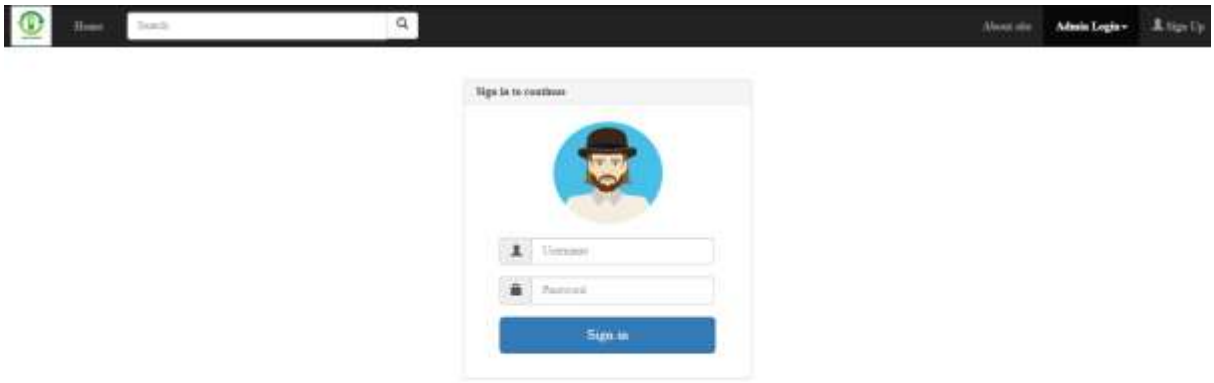



User Registration Form
Enter your Name
Enter your User Name
Enter your Password
Enter your Email
Enter your Phone Number
dd/mm/yyyy
Your Address
Your Gender
Male Female
Your Profile Picture
Choose File No file chosen
Submit

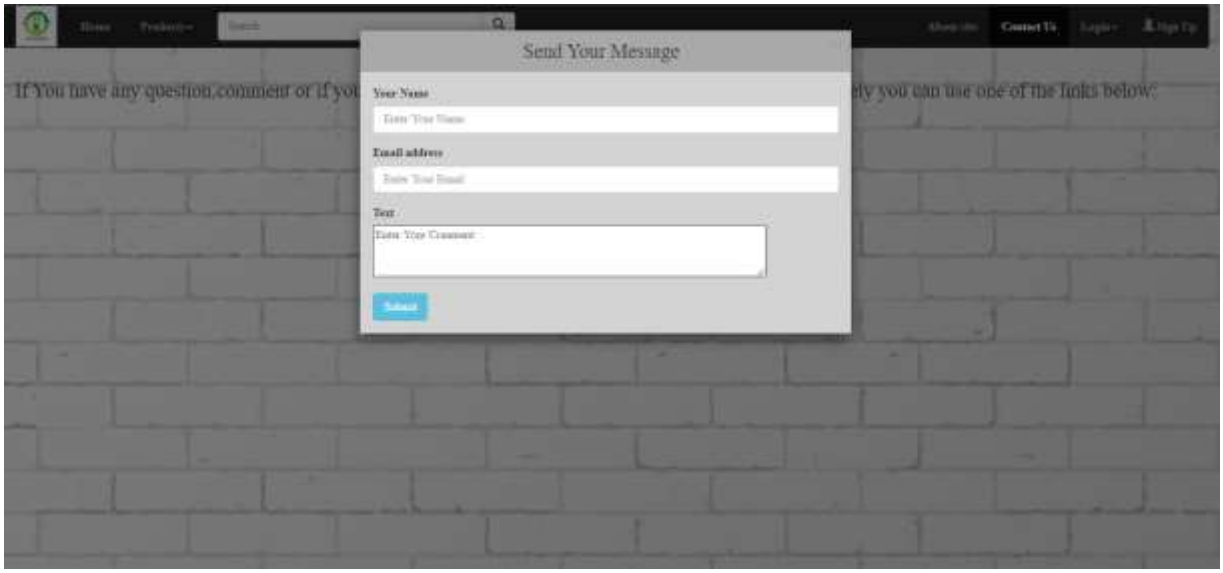
3.3.3 Home


Home
Description
kamera DSLR
Price: Rp 3200000
Running
Description
Earphone Bekas JBL C100si
Price: Rp 60000
Running
Sold Product Here
Blackberry
Sold Price: 21500
SOLD OUT

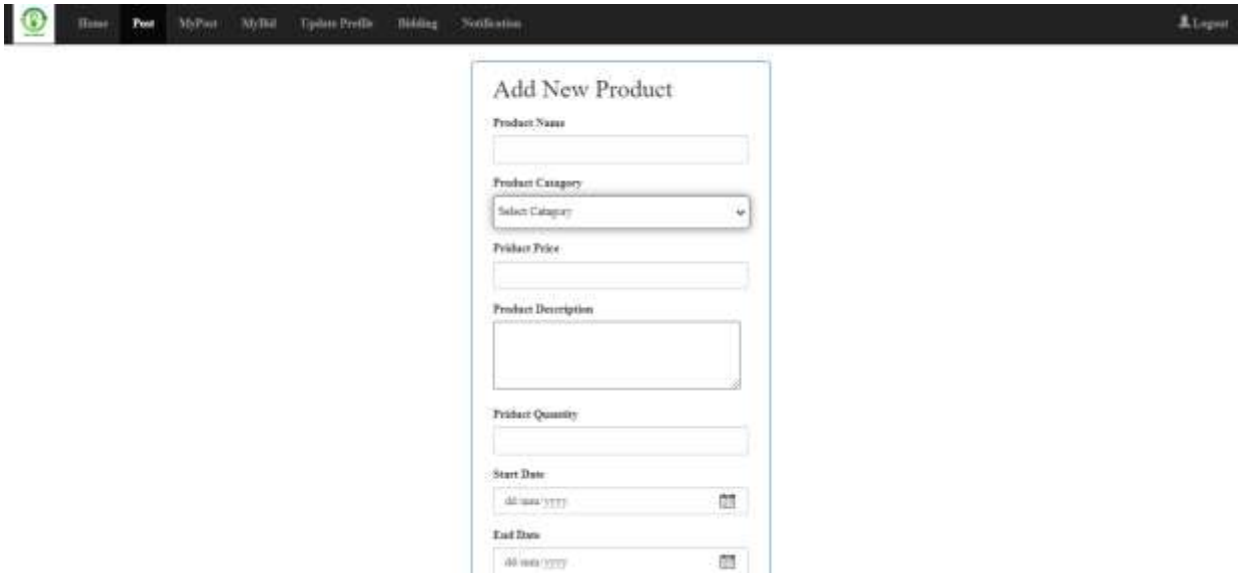
3.3.4 Admin Login



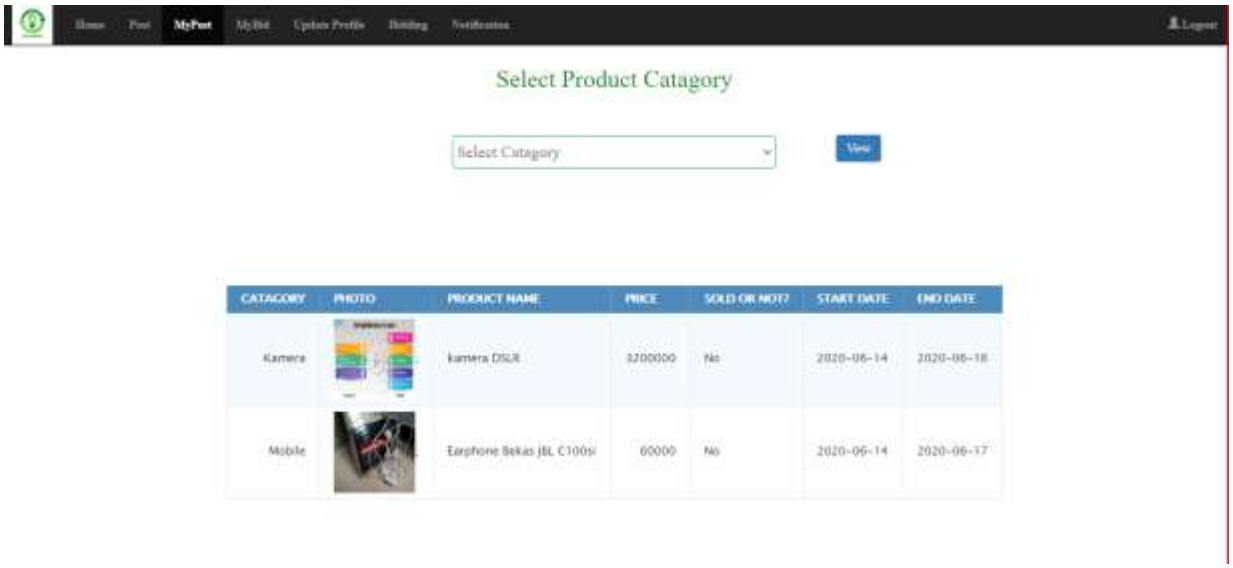
3.3.5 Contact Developer



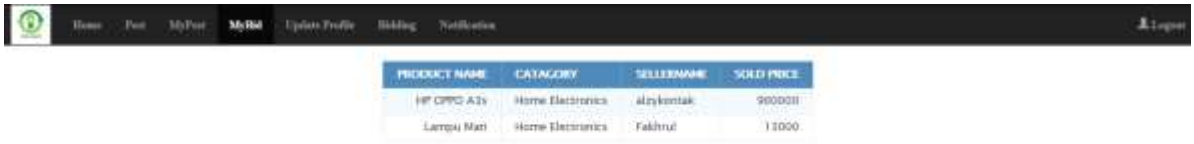
3.3.6 Add New Product to Auction



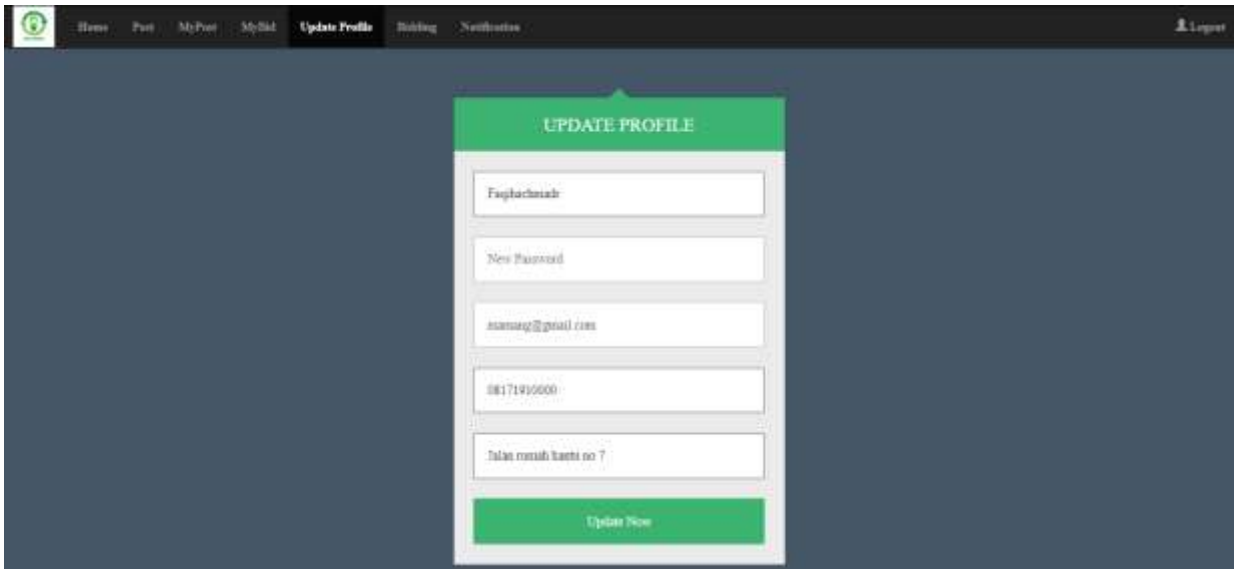
3.3.7 Product to Sell



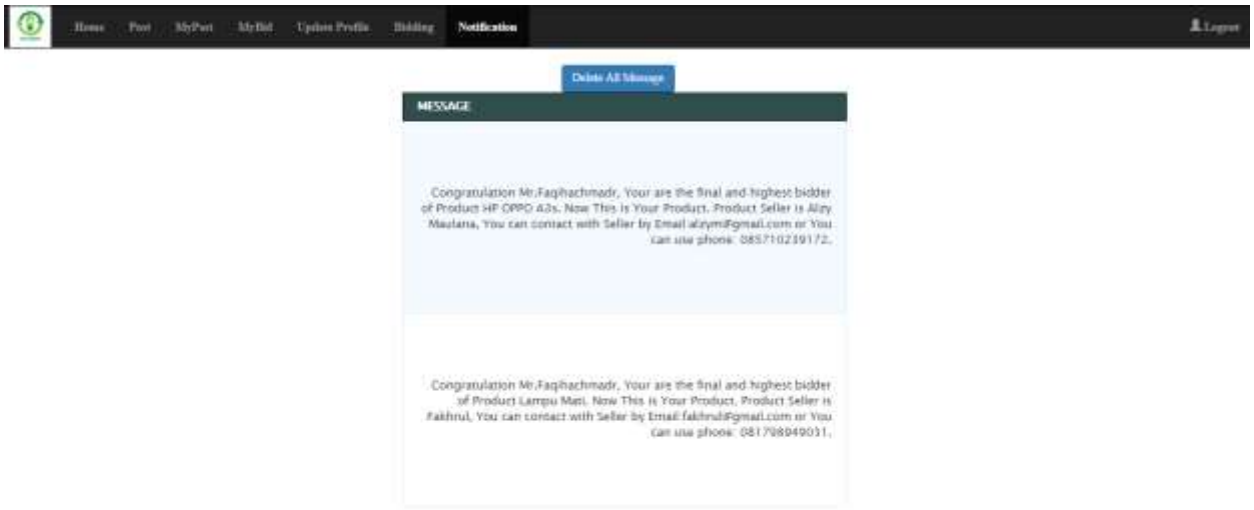
3.3.8 My Bid



3.3.9 Update Profile



3.3.10 Notification



3.3.11 Bidding Menu

3.3.12 Do Bidding

Earphone Bekas JBL C100si

Earphone bekas pemakaian setahun. Masih berfungsi normal
Corrent Price: 60000

Choose Your Price

70000

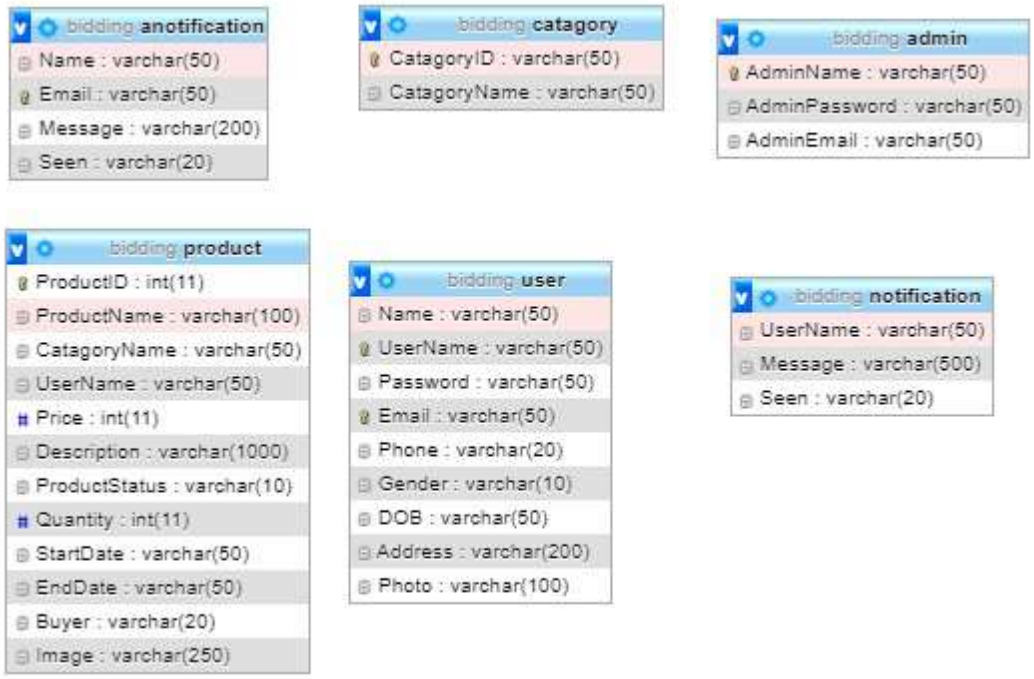
Bid Now

CHAPTER IV
IMPLEMENTATION

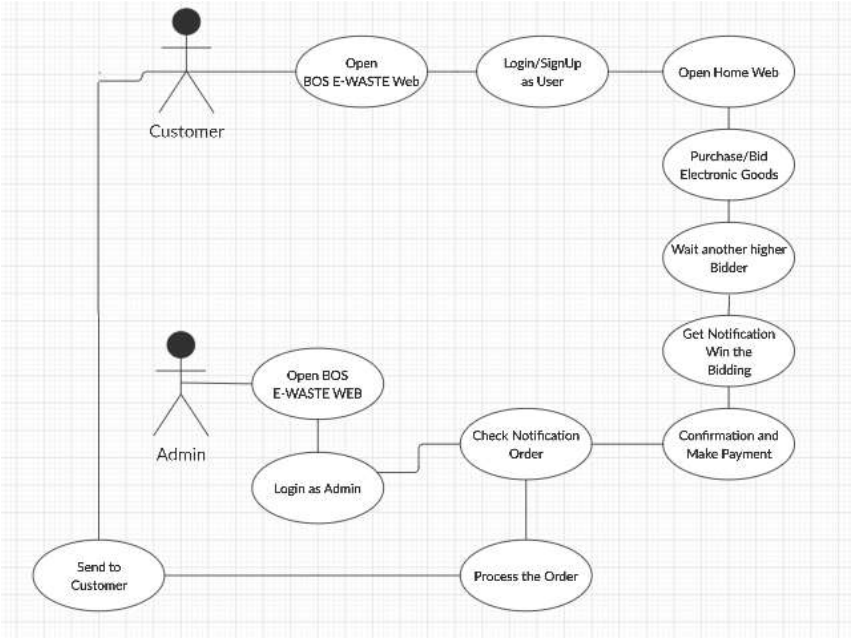
4.1 UML

Unified Modeling Language (UML) is standardized modeling language that enabling developers to specify, visualize, construct and document artifacts of a software system. UML is an important aspect involved in object-oriented software development. In this case, we use three types of UML that is :

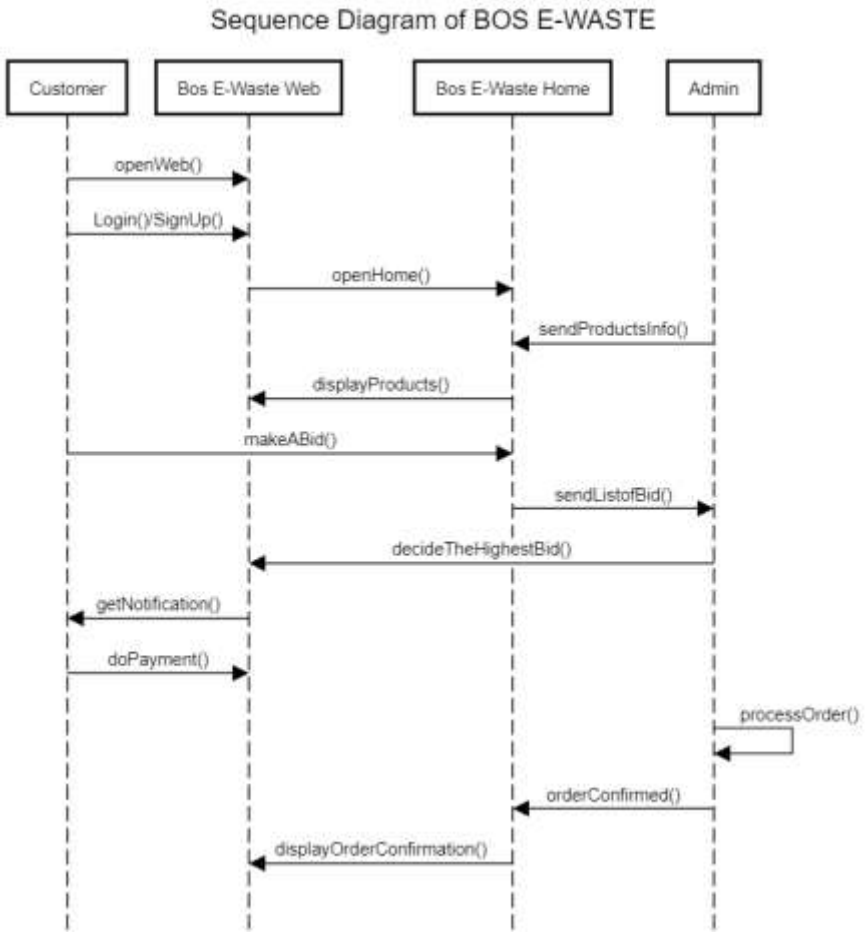
4.1.1 Class Diagram



4.1.2 Use Case Diagram



4.1.3 Sequence Diagram



4.1 Source Code

DatabaseConnection.php

```php
 <?php
$servername = "localhost";
$username = "root";
$password = "";
$database="Bidding"


$connection = new mysqli($servername, $username, $password,$database);


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

?>
```

Used for connect to database.

UserLogin.php

```php
<?php

if ($_SERVER["REQUEST_METHOD"] == "POST")
{

    $Server="localhost";
    $username="root";
    $psrd="";
    $dbname = "Bidding";
    $connection= mysqli_connect($Server,$username,$psrd,$dbname);

    $uname=$_POST['uname'];
    $Pass=md5($_POST['Pass']);

      $query="select * from User where UserName='$uname' and Password='$Pass'";



     $Complete=mysqli_query($connection,$query) or die("unable to connect");
```

Used for login user/customer before access the Web.

UserBid.php

```php
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST")
{

     $Server="localhost";
     $username="root";
     $psrd="";
     $dbname = "Bidding";
      $connection= mysqli_connect($Server,$username,$psrd,$dbname);
                $id=$_GET['bid'];
       $price=$_POST['Catagory'];
       $buyer=$_SESSION['uname'];

      $qry="select * from Product where ProductID='$id'";
      $Rslt=mysqli_query($connection,$qry);

      $rw=mysqli_fetch_array($Rslt);

      $postbuyer=$rw['Buyer'];
      $productname=$rw['ProductName'];

      $message=$postbuyer." Someone Bid heigher than your Bid price on product".$productname.'! , You Can Bid Again This Product ';

      $insert="insert into Notification values('$postbuyer','$message','No')";
       mysqli_query($connection,$insert);


       $query="update Product set Price='$price',Buyer='$buyer' where ProductID='$id'";

       mysqli_query($connection,$query);

       header('Location:Bidding.php');
```

Create a bid to electronic stuff by user.

Registration.php

```php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $Server="localhost";
     $username="root";
     $psrd="";
     $dbname = "Bidding";
     $connection= mysqli_connect($Server,$username,$psrd,$dbname);

        $name     =$_POST['name'];
        $uname    =$_POST['uname'];
        $Password =md5($_POST['password']);
        $email    =$_POST['email'];
        $phone    =$_POST['phone'];
        $dob      =$_POST['dob'];
        $gender   =$_POST['gender'];
        $address  =$_POST['address'];


        $destination = "UserPhoto/".$_FILES['image']['name'];
        $filename    = $_FILES['image']['tmp_name'];

        move_uploaded_file($filename, $destination);

        $query="insert into User(Name,UserName,Password,Email,Phone,Gender,DOB,Address,Photo) values('$name','$uname','$Password','$email','$phone','
          $gender','$dob','$address','$destination')";
       $ret= mysqli_query($connection,$query);

      echo '<script language="javascript">';
      echo 'alert("Registration successfully")';
      echo '</script>';
    }
```

Create an account for a new user

MyPost.php

```php
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {

        $catagory=$_POST['Catagory'];


    $uname=$_SESSION['uname'];



    if($catagory=='All')
    {
       $query="select * from Product where UserName='$uname'";
        $Rows=mysqli_query($connection,$query);

     if(mysqli_num_rows($Rows)>0){
      echo '<table class="data-table">';
       echo'<thead>';
       echo'<tr>';
       echo'<th>Catagory </th>';
       echo'<th>Photo </th>';
       echo'<th>Product Name</th>';
       echo '<th>Price</th>';
       echo '<th>Sold or Not?</th>';
       echo '<th>Start Date</th>';
       echo '<th>End Date</th>';
      echo'</tr>';
      echo'</thead>';

      echo'<tbody>';
```

Posting an electronic goods/stuff for bidding by user

MyBid.php

```php
<?php


    $Server="localhost";
    $username="root";
    $psrd="";
    $dbname = "Bidding";
    $connection= mysqli_connect($Server,$username,$psrd,$dbname);


     $uname=$_SESSION['uname'];

      $query="select * from Product where Buyer='$uname' and ProductStatus='Yes'";
      $Rows=mysqli_query($connection,$query);

    if(mysqli_num_rows($Rows)>0){
     echo '<table class="data-table">';
      echo'<thead>';
      echo'<tr>';
       echo'<th>Product Name</th>';
      echo'<th>Catagory</th>';
      echo'<th>SellerName</th>';
      echo '<th>Sold Price</th>';

     echo'</tr>';
     echo'</thead>';

     echo'<tbody>';

  while($row = mysqli_fetch_array($Rows))
    {

      echo "<tr>
          <td>" .$row['ProductName'] ."</td>

          <td>" .$row['CatagoryName'] ."</td>
           <td>" .$row['UserName'] ."</td>
           <td>" .$row['Price'] ."</td>
      </tr>";
    }
  }
```

Posting an electronic goods that already bidding by user.

AdminLogin.php

```php
if ($_SERVER["REQUEST_METHOD"] == "POST")
{

    $Server="localhost";
    $username="root";
    $psrd="";
    $dbname = "Bidding";
    $connection= mysqli_connect($Server,$username,$psrd,$dbname);

    $aname=$_POST['uName'];
    $Pass=md5($_POST['Pass']);

      $query="select * from Admin where AdminName='$aname' and AdminPassword='$Pass'";



     $Complete=mysqli_query($connection,$query) or die("unable to connect");


   $Rows=mysqli_fetch_array($Complete);
```

Login for Admin

ADeleteUser.php

```php
<?php




   $Server="localhost";
    $username="root";
    $psrd="";
    $dbname = "Bidding";
    $connection= mysqli_connect($Server,$username,$psrd,$dbname);

   $query="select * from User";
   $Result=mysqli_query($connection,$query);
  while ($row=mysqli_fetch_array($Result))
   {
        echo "<tr>";
         echo "<td>";
        echo "<img style='width:100px;height:100px' src='".$row['Photo']."'>";
          echo "</td>";
          echo "<td>";
         echo $row['Name'];
          echo "</td>";
         echo "<td>";
        echo $row['Email'];
        echo "</td>";
         echo "<td>";
         echo $row['Gender'];
          echo "</td>";
         echo "<td>";
         echo $row['Address'];
          echo "</td>";
           echo "<td>";
           $name=$row[1];

        echo"<a href=javascript:delete('$name')> <img src='Image/Delete.jpg'  width='50px' height='50px' alt='Bid'/> </a>";
         echo "</td>";
         echo "</tr>";
}
```

The admin can delete user.

ADeletePost.php

```php
<?php



  $Server="localhost";
    $username="root";
    $psrd="";
    $dbname = "Bidding";
    $connection= mysqli_connect($Server,$username,$psrd,$dbname);

   $query="select * from Product";
   $Result=mysqli_query($connection,$query);
  while ($row=mysqli_fetch_array($Result))
   {
          echo "<tr>";
          echo "<td>";
          echo "<img style='width:100px;height:100px' src='".$row['Image']."'>";
          echo "</td>";
          echo "<td>";
          echo $row['ProductName'];
          echo "</td>";
          echo "<td>";
          echo $row['CatagoryName'];
          echo "</td>";
          echo "<td>";
          echo $row['Price'];
          echo "</td>";
          echo "<td>";
          echo $row['ProductStatus'];
          echo "</td>";
          echo "<td>";
          echo $row['StartDate'];
          echo "</td>";
          echo "<td>";
          echo $row['EndDate'];
          echo "</td>";
          echo "<td>";
        ?>
  <a href="javascript:bid(<?php echo $row[0]; ?>)"> <img src="Image/delete1.jpg"  width="50px" height="50px"  alt="Bid" /> </a>
```

The admin can delete post which made by user.

Bidding.php

```php
<?php
   $Server="localhost";
     $username="root";
     $psrd="";
     $dbname = "Bidding";
     $connection= mysqli_connect($Server,$username,$psrd,$dbname);
$uname=$_SESSION['uname'];
  $query="select * from product where ProductStatus='No' and UserName!='$uname'";
    $Result=mysqli_query($connection,$query);
    $break=0;

    while ($row=mysqli_fetch_array($Result)) {

      if($break==2){

        echo "<tr>";


        $break=0;
```

Function to bid the electronic goods.

Search.php

```php
<?php

   $Server="localhost";
     $username="root";
     $psrd="";
     $dbname = "Bidding";
     $connection= mysqli_connect($Server,$username,$psrd,$dbname);

     $search=$_POST['search'];

     $query="select * from Product where ProductName like '%".$search."%' OR CatagoryName like '%".$search."%' ";


      $result=mysqli_query($connection,$query);
      $break=0;

      if(mysqli_num_rows($result)>0)
      {

      while ($row=mysqli_fetch_array($result)) {
            if($break==2){
        echo "<tr>";
        $break=0;
      }
```

Function for search the electronic goods in bidding list.

CHAPTER V
TESTING AND EVALUATION

5.1 Introduction

Starting from desire to reduce E-Waste Pollution in Jakarta, BOS E-Waste is a Web App that aims to help people who has Electronic Waste in their home. Electronic Waste that can people sell/bid in this Web App include Home Electronic, Gadget and Smartphones, Computer, and etc. This WebApp works by bidding, the auctioner who has highest bidding are the winner and entitled to get goods and make a payment.

5.2 Register Testing

Test Case ID: 1
Test Priority (Low/Medium/High): High
Module Name: Registration Screen
Test Title: Verify registration
Description: Test the registration

Test Designed by: Fakhrul
Test Designed date: 11 Juni 2020
Test Executed by: Faqih
Test Execution date: 11 Juni 2020

Pre-conditions: User do registration in registration page of BOS E-Waste
Dependencies:

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Navigate to registration page	button	User is navigated to register page	User is navigated to register page	Pass	
2	Enter all text in all form	Enter all data	Can type in all column area	Can type in all column area	Pass	
3	Click Submit Button	Enter the expected data	Register Successful	Register Successful	Pass	
4	Click Submit Button	Enter the wrong data in password and phone number	Register Successful	Register Failed	Fail	Minimum character for password and phone number

Post Condition

User can register successfully if they enter the right data to all form

5.3 Login Testing

Test Case ID: 2
Test Priority (Low/Medium/High): High
Module Name: Login Screen
Test Title: Login to main page
Description: Test the login page

Test Designed by: Faqih
Test Designed date: 12 Juni 2020
Test Executed by: Alzy
Test Execution date: 12 Juni 2020

Pre-conditions: User do login in login page of BoS EWaste
Dependencies:

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Navigate to login page	button	User is navigated to login page	User is navigated to login page	Pass	
2	Enter username and password	Username : Faqih password: faqih12345	Login successful	Login failed	Fail	Username and password unregistered
3	Enter username and password after registration	Username : Alzy password: Alzy1212	Register Successful	Register Successful	Pass	
4	Click Submit Button	Click login button	Showing Login Successful or failed	Showing Login Successful or failed	Pass	

Post Condition

User can Login successfully to main page if they enter registered username and password

5.4 Post E-Waste Testing

Test Case ID: 3
Test Priority (Low/Medium/High): High
Module Name: Post Screen
Test Title: Post E-Waste by user
Description: Post any E-waste in post screen

Test Designed by: Alzy
Test Designed date: 9 Juni 2020
Test Executed by: Fakhrul
Test Execution date: 10 Juni 2020

Pre-conditions: User post any e-waste in post page of BoS EWaste
Dependencies:

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Click Post button in navigation bar	button	User is navigated to post page	User is navigated to post page	Pass	
2	Enter all data in post form	Name, category, price, date, quantity and description	Can type in all column area and select date or category	Can type in all column area and select date or category	Success	
3	Insert image from device library	image	Success to import image file	Success to import image file	Pass	
4	Click Post Button	Click post button	Post Success	Post Success	Pass	

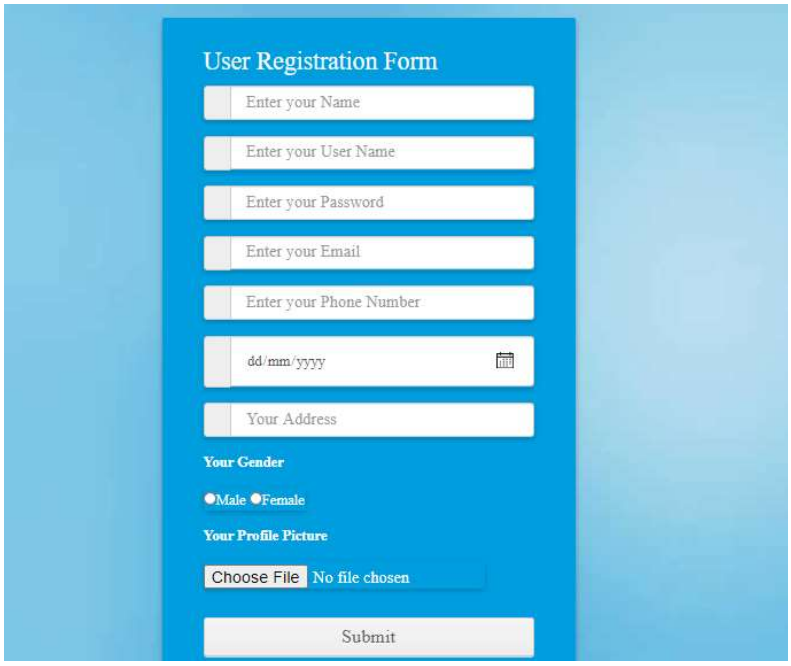
Post Condition

User can post E-waste from post menu. User also can import image from their device to BoS E-Waste. If they success to post any e-waste, it will be posted in MyPost page.

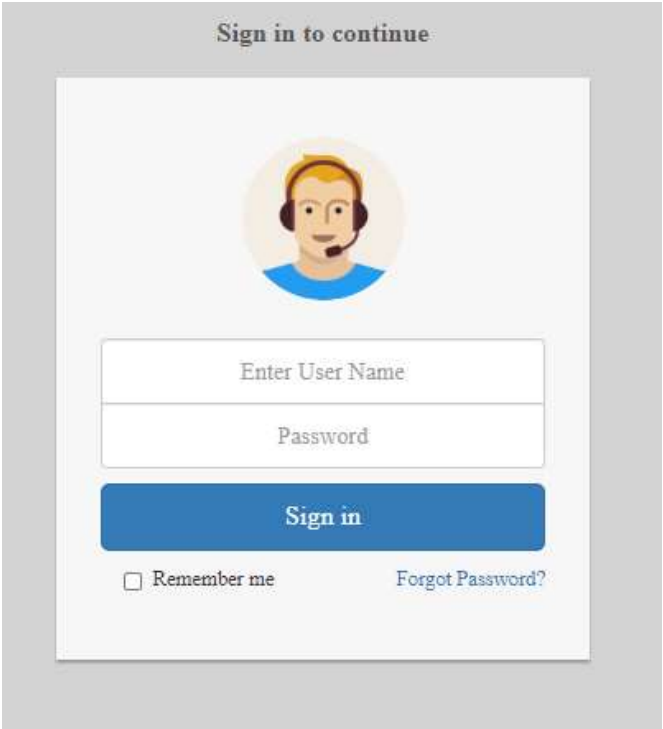
CHAPTER VI

USER MANUAL

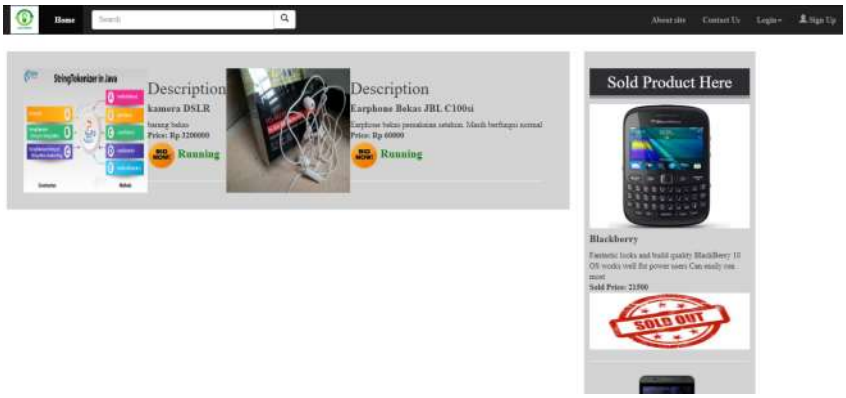
1. Registration in sign up menu on the left corner.



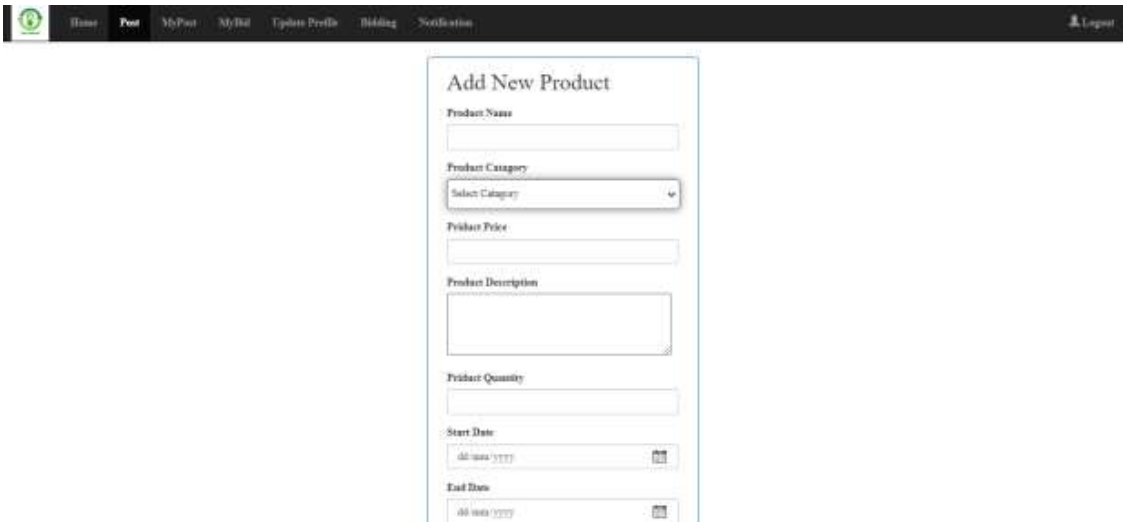
2. After registration success, login with registered account in login menu

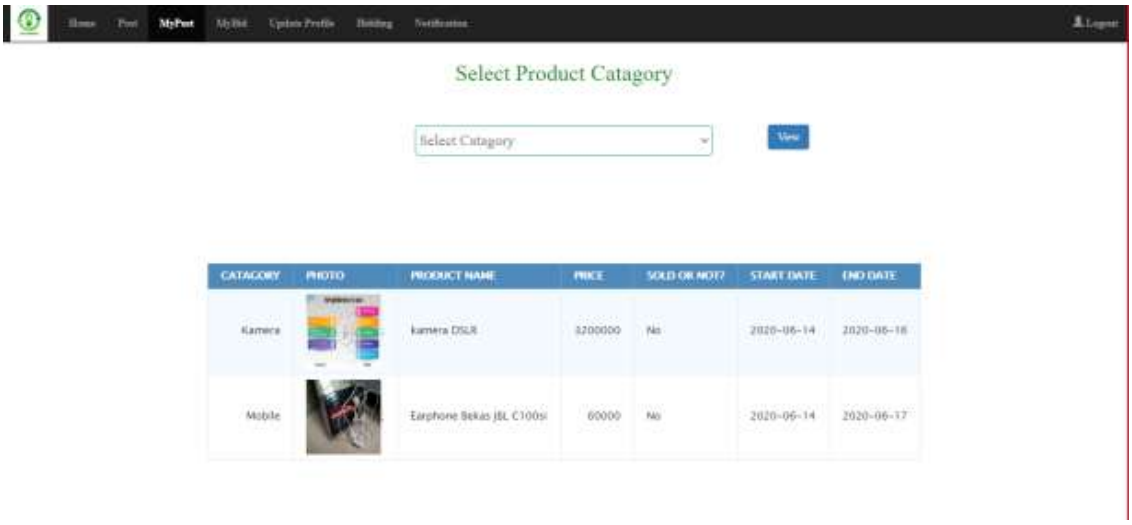


3. In the main page, you can post or bid any e-waste



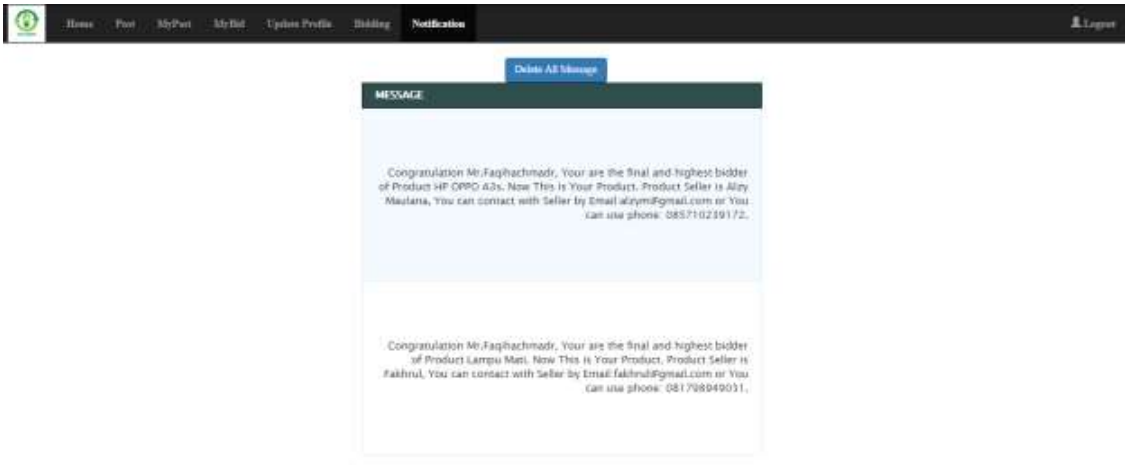
4. If you want to sell e-waste, click post menu and enter all data needed. You can also insert image of product that you wanted to sell. Don't forget to set the duration of post to set availability of post in bidding post menu.





5. If you want to bid an item, you can bid on bidding menu. Your price will update if your bid success. (Amount of bid price is Rp10,000, Rp50.000, and Rp100.000)

6. You will get notification if you win bidding an item. Also, you will get notification if others user set higher bid than your bid.



7. If you won the item, you can contact the seller's email or phone number in notification.

CHAPTER VII
CONCLUSION

In this technological era, the use of smartphones has become a part of daily life. Therefore, making a mobile application can provide exposure and added value for a company, especially if there are any features that can be used in daily life.

In this project, we made an application web-based named BOS E-WASTE which using bidding feature to get an electronic waste product. Electronic Waste that can people sell/bid in this Web App include Home Electronic, Gadget and Smartphones, Computer, and etc.

We hope that by making this application, users get the convenience of activities to reduce pollution by reduce a waste especially electronic product.

REFERENCES

https://www.php.net/manual/en/

https://dev.mysql.com/doc/refman/8.0/en/

https://getbootstrap.com/docs/4.1/getting-started/introduction/