DIGIMONEY: MONEY MADE SIMPLE A PROJECT REPORT

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Under the guidance of

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SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

ABSTRACT

This is a payments service, targeted at users in colleges and universities. In this website, activities start with DigiMoney automating a customer account, which allows personnel to create, update and maintain customer records. The DigiMoney software have enhanced the accuracy of accounts that tellers and other banking personnel process. This software performs customer transactions through a centralized data record system. Account management is the genesis and backbone of all banking information systems.

2. SCOPE OF PROJECT:-

The Traditional way of maintaining details of a user in a bank was to enter the details and record them. Every time the user needs to perform some change in account, we have to go to bank and perform the necessary actions, which may not be so feasible all the time. It may be a hard-hitting task for the users and the bankers too. So it provides enhanced techniques for maintaining the required information up-to-date, which results in efficiency .Therefore its management procedure is more challenging as regulatory system always is there to control the bank management is solved by it. Thus very useful in today's world. It allows you to bypass bank lines.

Interaction:-

- Employee and customer
- Admin and Login

Flow of website:

- To register for new account (customer)\
- Have Employee detail
- Have customer detail
- To open or close an account
- Apply for a loan,
- To make deposits
- To transfer between accounts
- Alerts messages

Application:-

Commercial or retail banks use what is known as core banking software which record and manage the transactions made by the banks' customers to their accounts. Online money transaction software is used by millions of users across hundreds or thousands of branches. This means that the software must be managed on many machines and be accessible by everyone. The core banking system is a major investment for a retail banks and maintaining and managing the system can represent a large part of the cost of running a bank.

3. REQUIREMENTS:-

Front End/Language PHP,JAVASCRIPT

Back End/Database MYSQL

Additional Tools XAPM Server

Operating System Windows 7, 8,10

Data collection:-

1. Create New Account: The customer profile details and the bank account details with the proof of the ownership of the bank account.

- 2. Login: Account holders can login in to the system using id and password. Thus this is the secured login page for the customers in the website.
- 3. Transfer: This is the module to make fund transfer to bank account holders from the customer's specified bank account.
- 4. Transactions: This module displays the transactions made by the customer in with the transaction details
- 5. Administrative Control: This module contains the administrative functions such as view all account, transactions, loans etc.

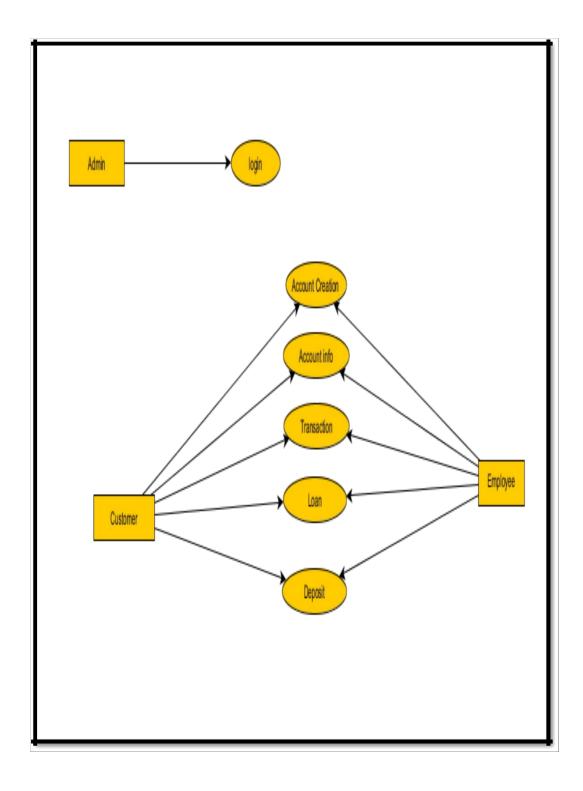
Data validation:-

Almost every field in the database which is sensitive that is responsible for some important changes are validated. Basically we validate the field as such is numeric and the length if necessary.

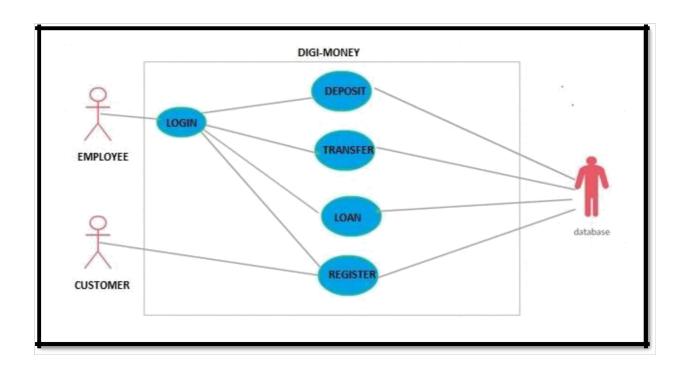
So while performing the transaction at faster rate user is going to face problems or can make any sort of blunder in the status, number, name, account detail and other field so it can be take care with using validation.

Mostly the validation is carried out in the lost focus, click, change and other similar events where the entered value is compared with the one stored in the database and if there is duplication to occur or no match with the database then the entry is to be removed and user is prompt to re-enter it.

4. SCHEMA DESIGN:



5. USE CASE DIAGRAMS:



6. SOURCE CODE:

account.php

```
<?php
require('config.php');
require('usr_funcs.php');
session_start();
$detail=account_cus_emp();
$user=$_SESSION['valid_user'];
if(emp check()){
 $user=generate name();
}
if(valid user()){
 if(valid_user_account_number()){
   do_header('Account');
   do_menu($user);
    try{
      if($_SESSION['user_type']=='customer'){
       $sql="SELECT * from account where
account_number=".$_SESSION['valid_user_account_number']."";
      }else{
               $sql="select * from employee where employee id=".
                                        $ SESSION['valid user'];
      }
    if($result=$mysqli->query($sql)){
      if($result->num_rows >0){
       if($row=$result->fetch_array()){
 if(emp_check()){ account_emp(); }else{ ?>
 <thead>
  <center>Account Details</center>
```

```
</thead>
Username: 
<?php echo $_SESSION['valid_user']; ?>
Account Number: 
<?php echo $row[0]; ?>
Customer Id: 
<?php echo $row[1]; ?>
Balance: 
<?php echo $row[2]; ?>
<?php
    }
    }else{
```

```
throw new Exception("Something Went Wrong. Can't
                                                fetch_array()");
        }
      }else{
        throw new Exception("Sorry You haven't entered the details yet.");
      }
     } else{
      throw new Exception("Something went wrong. Can't execute the query");
     }
   }catch(Exception $e){
      do_exp_content($e->getMessage());
     }
   do_footer();
 }else{
   header('Location:index.php');
 }
}else{
   header('Location:index.php');
 }
?>
config.php
<?php
if($mysqli=mysqli_connect("localhost","root","","bank_management")){
 return true;
}else{
 return false;
}
?>
customer.php
<?php
session_start();
require 'usr_funcs.php';
```

```
require 'config.php';
$user=$_SESSION['valid_user'];
$task=@$_GET['task'];
if(emp_check()){
 $user=generate_name();
}
if(!valid_user_check()){
 header("Location: index.php");
}
$user=$_SESSION['valid_user'];
if(emp_check()){
 $user=generate_name();
}
do_header("Customer");
do_menu($user);
if($task=="|| $task=='all'){
?>
<center>Customer Details</center>
  <?php
 try{
  $sql="SELECT customer_id,customer_name
  FROM customer"; if($result=$mysqli-
  >query($sql)){
    if($result->num_rows>0){
     while($row=$result->fetch_array()){
       ?>
```

```
Customer ID: 
 <?php echo $row[0]; ?>
 Customer Name: 
 <?php echo $row[1]; ?>
 <center><a href='customer.php?task=det&id=<?php echo $row[0];?>'> View
 Details</a></center> 
<?php
   }
  }else{
   throw new Exception("Something Went Wrong");
  }
 }else{
  throw new Exception("Can't Execute the Query");
 }
}catch(Exception $e){
 do_exp_content($e->getMessage());
}
```

```
?>
<?php
}
if($task=='det'){
 $id=$_GET['id'];
 try{
   $sql="SELECT b.customer_name,
b.customer_id,a.account_number,a.account_type,b.customer_address from account as a,customer as b where a.customer_id=b.customer_id and a.customer_id=$id";
 if($result=$mysqli->query($sql)){
  if($result->num rows>0){
    if($row=$result->fetch_array()){
     ?>
 <thead>
   <center>Customer Details</center>
   </thead>
  Customer Name: 
   <?php echo $row[0]; ?>
   Customer ID: 
   <?php echo $row[1]; ?>
```

```
Account Number: 
<?php echo $row[2]; ?>
Account Type: 
<?php echo $row[3]; ?>
Address: 
<?php echo $row[4]; ?>
<a href='customer.php'>Go
Back</a> 
<?php
 }
}
}
}catch(Exception $e){
do_exp_content($e->getMessage());
}
```

}

```
do_footer();
?>
dependent.php
<?php
session start();
require('usr funcs.php');
require('config.php');
if(!valid_user_check()){
 header("Location: index.php");
}
$user=generate_name();
do_header('Dependent');
do menu($user);
try{
 if($ SESSION['user type']=='employee'){
   $sql="select
b.customer name,b.customer address,a.account number,a.customer id,a.balance,a.account
account as a, customer as b, employee as c where a.customer id=b.customer id and
b.customer name=c.dependent name";
   if($result=$mysqli->query($sql)){
    if($result->num rows>0){
      if($row=$result->fetch array()){
       ?>
 <thead>
  <center>My Dependent</center>
```

```
</thead>
Name: 
<?php echo $row[0]; ?>
Address: 
<?php echo $row[1]; ?>
Account Number: 
<?php echo $row[2]; ?>
Customer ID: 
<?php echo $row[3]; ?>
Balance: 
<?php echo $row[4]; ?>
```

```
Account Type: 
  <?php echo $row[5]; ?>
  <?php
      }else{
       throw new Exception("Can't fetch Array");
     }
    }else{
      throw new Exception("Something Went
                               Wrong");
    }
  }else{
    throw new Exception("Can't Run the Query");
  }
 }else{
  throw new Exception("Restricted Area");
 }
}catch(Exception $e){
 do_exp_conent($e->getMessage());
}
do_footer();
?>
deposit.php
<html>
<head>
<body>
```

```
<div class='container'>
  <h2 class="form-signin-heading">Please Enter An
 Amount</h2> <form method='post' class="form-
 inline">
  <div class="form-group">
   <label class="sr-only" for="exampleInputAmount">Amount (in
   rupees)</label> <div class="input-group">
    <div class="input-group-addon">&#8377;</div>
<input name='amount' type="text" class="form-control"
id="exampleInputAmount" placeholder="Amount">
    <div class="input-group-addon">.00</div>
   </div>
  </div>
    </form>
 </div>
</head>
</body>
</html>
employee.php
<?php
session start();
require('usr funcs.php');
require('config.php');
$task=@$_GET['task'];
if(!valid_user_check()){
 header("Location: index.php");
}
$user=$ SESSION['valid user'];
if(emp check()){
 $user=generate name();
}
do_header("Profile");
do_menu($user);
```

```
if($task==" || $task=='all'){
?>
 <center>My profile</center>
   <?php
 try{
  $sql="select employee_id,employee_name from
  employee"; if($result=$mysqli->query($sql)){
   if($result->num_rows>0){
    while($row=$result->fetch_array()){
     ?>
   Employee ID: 
    <?php echo $row[0]; ?>
    Employee Name: 
    <?php echo $row[1]; ?>
    <center><a href='employee.php?task=det&id=<?php echo $row[0];?>'>
    View Details</a></center>
```

```
<?php
     }
    }else{
     throw new Exception("Something Went Wrong");
    }
  }else{
    throw new Exception("Can't Execute the Query");
  }
 }catch(Exception $e){
  do_exp_content($e->getMessage());
 }
 ?>
 <?php
}
if($task=='det'){
 $id=$_GET['id'];
 try{
  $sqI="SELECT * FROM employee WHERE
 employee_id=$id"; if($result=$mysqli-
 >query($sql)){
  if($result->num_rows>0){
    if($row=$result->fetch_array()){
     ?>
  <thead>
```

```
<center>Employee Details</center>
 </thead>
Employee ID: 
<?php echo $row[0]; ?>
Employee Name: 
<?php echo $row[1]; ?>
Mobile Number: 
<?php echo $row[2]; ?>
Start Date: 
<?php echo $row[3]; ?>
Dependent Name:
```

```
<?php echo $row[4]; ?>
    <a href='employee.php'>Go
   Back</a> 
  <?php
   }
  }
 }
 }catch(Exception $e){
  do_exp_content($e->getMessage());
 }
}
do_footer();
?>
```

function.php

```
<?php

//function.php

function get_total_all_records($connect)
{
    $statement = $connect->prepare('SELECT * FROM tbl_user');
    $statement->execute();
    return $statement->rowCount();
}
```

```
function clean_text($string)
{
$string = trim($string);
$string = stripslashes($string);
$string = htmlspecialchars($string);
return $string;
}
function convert_string($action, $string)
{
$output = ";
$encrypt_method = "AES-256-CBC";
 $secret_key =
 'eaiYYkYTysia2InHiw0N0vx7t7a3kEJVLfbTKoQIx5o=';
 $secret_iv = 'eaiYYkYTysia2InHiw0N0'; // hash
 $key = hash('sha256', $secret_key);
$initialization_vector = substr(hash('sha256', $secret_iv), 0, 16);
if($string != ")
if($action == 'encrypt')
 $output = openssl_encrypt($string, $encrypt_method, $key, 0, $initialization_vector);
 $output = base64_encode($output);
}
if($action == 'decrypt')
 $output = openssl_decrypt(base64_decode($string), $encrypt_method, $key, 0,
 $initialization_vector);
}
return $output;
}
```

index.php

```
<?php
require('usr funcs.php');
require 'config.php';
session start();
?>
 <?php
 do header("DigiMoney Management");
do index menu();
   if(!valid user() && !valid user account number()){
      if(!isset($ POST['submit'])){
      ?>
   <div class='container' style='margin-top:50px;'>
     <form class="form-signin" method='post'>
      <h2 class="form-signin-heading">Please sign in</h2>
      <div class="form-group">
        <label for="formGroupExampleInput">User ID</label>
<input name='username' type="text" class="form-control"
id="formGroupExampleInput" placeholder="Username"> </div>
      <div class="form-group">
        <label for="formGroupExampleInput">Password</label>
<input name='password' type="password" class="form-control"
id="formGroupExampleInput" placeholder="password"> </div>
      <div class="col-sm-10">
        <div class="form-check">
          <label class="form-check-label">
</div>
        <div class="form-check">
          <label class="form-check-label">
</div>
```

```
</div>
       <button name='submit' class="btn btn-lg btn-primary btn-block"
     type="submit">Sign in</button> </form>
   </div>
    <?php
       }else{
           $username=$ POST['username'];
           $password=$ POST['password'];
           $cus emp=$ POST['cus emp'];
           if(trim($username)==" || trim($password)=="|| empty($username) ||
             empty($password)){ throw new Exception("Please Enter the Form");
           }
           if($cus emp=='customer'){
$sql="select username,account number from user_accounts where
username="".$username."' and password="'.$password."'";
           }else{
$sql="select employee_id,telephone_number from
employee where employee_id="".$username."' and
telephone_number=".$password;
           }
           if($result=$mysqli->query($sql)){
             if($result->num_rows >0){
              if($row=$result->fetch_array()){
                $_SESSION['valid_user']=$row[0];
                $ SESSION['valid user account number']=$row[1];
                $ SESSION['logged in']=1;
                $_SESSION['user_type']=$cus_emp;
                echo '<script>location.href="main.php"</script>';
              }else{
                throw new Exception("Something went wrong. Can't fetch Array.");
               }
           }else{
             throw new Exception(" User Not Found.");
```

```
}
         }else{
            throw new Exception("some error");
           }
       }
   }else{
     echo '<script>location.href="main.php"</script>';
   }
do_footer();
   ?>
loan.php
<html>
<head>
<body>
 <h2 class="form-signin-heading">Please Enter An
 Amount</h2> <form method='post' class="form-
 inline">
  <div class="form-group">
   <label class="sr-only" for="exampleInputAmount">Amount (in
   rupees)</label> <div class="input-group">
    <div class="input-group-addon">&#8377;</div>
    <input name='amount' type="text" class="form-control" id="exampleInputAmount"</pre>
    placeholder="Amount"> <div class="input-group-addon">.00</div>
   </div>
  </div>
</head>
</body>
</html>
logout.php
<?php
require 'config.php';
require 'usr_funcs.php';
session_start();
```

```
if(valid_user()){
 if(valid_user_account_number){
   $_SESSION['valid_user']='';
   $_SESSION['valid_user_account_number']=";
   unset($_SESSION['valid_user']);
   unset($_SESSION['valid_user_account_number']);
   $_SESSION['logout']=1;
   header("Location:index.php");
 }
}else{
 header("Location:index.php");
}
?>
main.php
<?php
require 'config.php';
require 'usr_funcs.php';
session_start();
if(!valid_user_check()){
 header("Location: index.php");
}
?>
 <?php
if($_SESSION['user_type']=='customer'){
 do_header("DigiMoney Management");
?>
   <?php
if(isset($_SESSION['logged_in'
if($_SESSION['logged_in']==1
       ?>
     <h1>DigiMoney Management System</h1>
     <?php
```

```
unset($_SESSION['logged_in']);
     }else{
      unset($_SESSION['logged_in']);
     }
   }
do_menu($_SESSION['valid_user']);
   do_content();
   do_footer();
}else{
 do_header("DigiMoney Management");
?>
       <?php
   if(isset($_SESSION['logged_in'])){
     if(SESSION['logged_in']==1){
      ?>
        <h1>DigiMoney Management System</h1>
        <?php
      unset($_SESSION['logged_in']);
     }else{
      unset($_SESSION['logged_in']);
     }
   }
   do_menu(generate_name());
   do_content_emp();
   do_footer();
}
register.php
<?php
require('usr_funcs.php');
require 'config.php';
session_start();
?>
```

```
<?php
      do_header("DigiMoney Management");
do_index_menu();
           if(!valid_user() && !valid_user_account_number()){
                       if(!isset($_POST['Rsubmit'])){
                                                                                                                            register_form();
                       }else{
                                 try{
                                        $username=$_POST['username'];
                                        $pass1=$_POST['pass1'];
                                        $pass2=$_POST['pass2'];
                                        $account_number=(int)$_POST['account_number'];
if(empty(\$account\ number)\ ||\ trim(\$account\ number)\ =="\ ||\ empty(\$username)\ ||\ empty(\$pass1)\ ||\ empty(\$pass2)\ ||\ trim(\$username)\ =="\ ||\ trim(\$pass1)\ =="\ ||\ trim(\$pass2)\ =="\ ||\ trim(\$pass2)\ ||\ empty(\$pass2)\ ||\ empty
                                             throw new Exception("Please Enter the form Correctly");
                                       }
                                       if($pass1!=$pass2){
                                             throw new Exception("The Passwords Doesn't Match");
                                        if(username_check($username)){
                                             throw new Exception("The Username is Already Taken\n Please Choose a different
                                             name");
                                        $sql="INSERT INTO
user_accounts(username,password,account_number) values ('". $username."','".$pass1."','".$account_number."')";
                                       if($mysqli->query($sql)){
                                                  echo "You have been registered.Please ";
                                                  echo "<a href='index.php'>Login </a>";
                                       }else{
                                             throw new Exception("Can't Execute the Query");
                                       }
                                  } catch (Exception $ex) {
                                       do_exp_content($ex->getMessage());
                                  }
```

```
}
    }else{
      header("Location: main.php");
    }
do_footer();
    ?>
transfer.php
<?php
session start();
require('config.php');
require('usr_funcs.php');
if(!valid_user_check()){
 header("index.php");
}
do_header("Transfer");
do_menu($_SESSION['valid_user']);
if(!isset($_POST['submit_transfer'])){
 ?>
 <div class='container' style='margin-top:50px;'>
  <h3><?php echo "Your Current Balance:
     ".tranfer_get_balance($_SESSION['valid_user_account_number']); ?></h3> <form
     method='post'>
      <div class="form-group">
       <label for="formGroupExampleInput2">Account Number:</label>
<input name='account number' type="text" name='pass2' class="form-control"
id="formGroupExampleInput2" placeholder="Account Number"> </div><div class="form-group"></div></div></div></div>
    <label class="sr-only" for="exampleInputAmount">Amount (in
    rupees)</label> <div class="input-group">
     <div class="input-group-addon">&#8377;</div>
     <input name='amount' type="text" class="form-control" id="exampleInputAmount"</pre>
     placeholder="Amount"> < div class="input-group-addon">.00</div>
    </div>
```

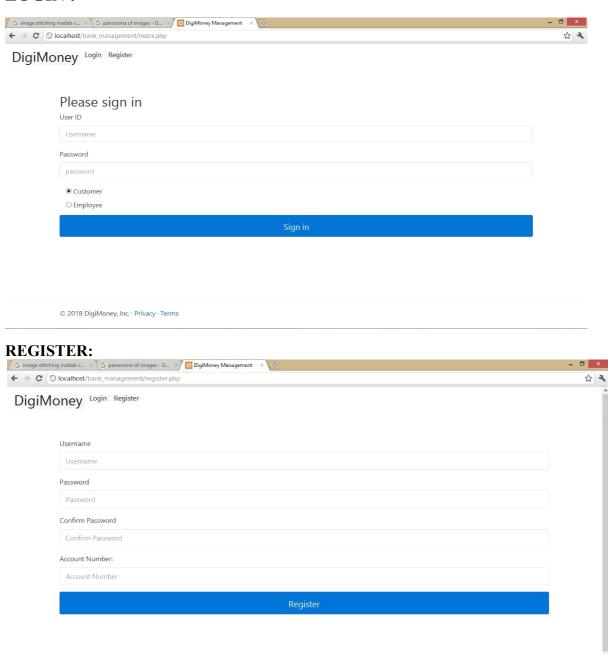
```
</div>
     <buton name='submit_transfer' type="submit" class="btn btn-lg btn-primary btn-
    block">Transfer</button> </form>
   </div>
<?php
}else{
try{
 $amount=(int)$_POST['amount'];
 $account_number=$_POST['account_number'];
 if(empty($amount) || trim($amount)=="){
  throw new Exception("Fill the Form Correctly");
 }if(empty($account_number) || trim($account_number)=="){
  throw new Exception("Fill the Form Correctly");
 }
transfer_account_number_check($account_num
   throw new Exception("Enter a Valid Account
                                   Number");
 }
 if($amount<1000){
  throw new Exception("Add Higher Amount");
 }
 $balance_own=transfer_details($_SESSION['valid_user_account_
 number']); if($amount>$balance_own){
  throw new Exception("You Don't Have enough amount to Transfer");
 $balance_other=transfer_details($account_number);
 if(($balance_own <0) || (empty($balance_own)) || ($balance_other <0) ||
  (empty($balance_other))){ throw new Exception("Can't Fetch Details");
 $bal_own_new=$balance_own-$amount;
 $bal_other_new=$balance_other+$amount;
 $det=array($bal_own_new,$_SESSION['valid_user_account_number'],$bal_other_new,
 $account_number);
 if(do_transfer($det[0],$det[1]) && do_transfer($det[2],$det[3])){
```

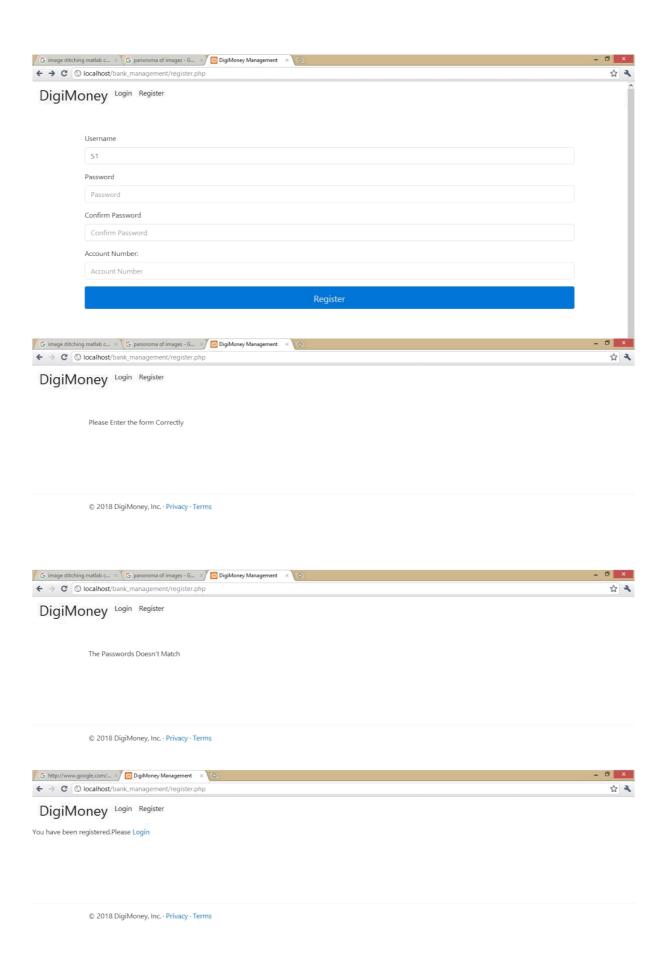
do_transfer_content("TRANSFER SUCCESSFUL","You can check your new balance now");

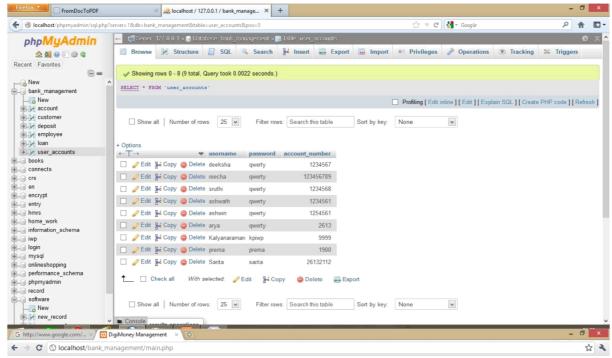
```
}else{
  throw new Exception("Something Went Wrong. Please Try Again Later");
}
}catch(Exception $e){
  do_exp_content($e->getMessage());
}
}
do_footer();
?>
```

7. SCREENSHOTS:

LOGIN:







DigiMoney Management System

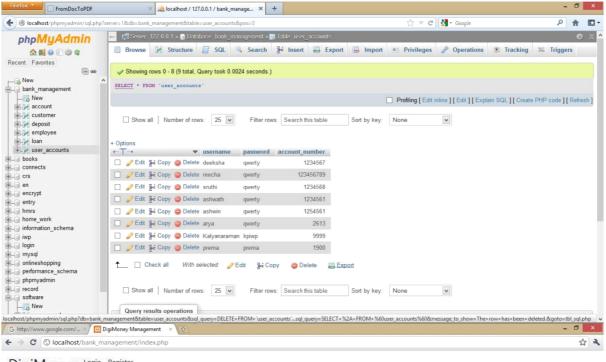
DigiMoney

Sarita Account Deposit Employee Transfer Loan Logout

KEEP CALM AND BELIEVE IN US

We Protect you and your money even when you are asleep DigiMoney.

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DigiMoney Login Register







DigiMoney Management System

DigiMoney

Deeksha Account Deposit Employee Transfer Loan Logout

KEEP CALM AND BELIEVE IN US

We Protect you and your money even when you are asleep DigiMoney.

ACCOUNT DETAILS: ← → C O localhost/bank_managem ☆ 3 DigiMoney Deeksha Account Deposit Employee Transfer Loan Logout **Account Details** deeksha Username: Account Number: 1234567 Customer Id: 12345 Balance: 266500 © 2018 DigiMoney, Inc. · Privacy · Terms G http://www.google.com/... × Profile ← → C O localhost/bank_management/employee.php \$ 3 Deeksha Account Deposit Employee Transfer Loan Logout DigiMoney My profile Employee ID: 15250 Employee Name: Employee1 View Details Employee ID: 15263 Employee Name: Employee2 View Details Employee ID: 15251 Employee Name: Employee3 View Details G http://www.google.com/... × ◯ ☐ Transfer ← → C (localhost/bank_management/transfer.php ☆ 3 Deeksha Account Deposit Employee Transfer Loan Logout DigiMoney Your Current Balance: 266500 Account Number: Account Number ₹ Amount .00 © 2018 DigiMoney, Inc. · Privacy · Terms

