



American International University- Bangladesh

CSC 3215: Web Technologies

CO2 and CO4 Evaluation Finished Project Report Summer 2021-22

Project Title: Banking Management System

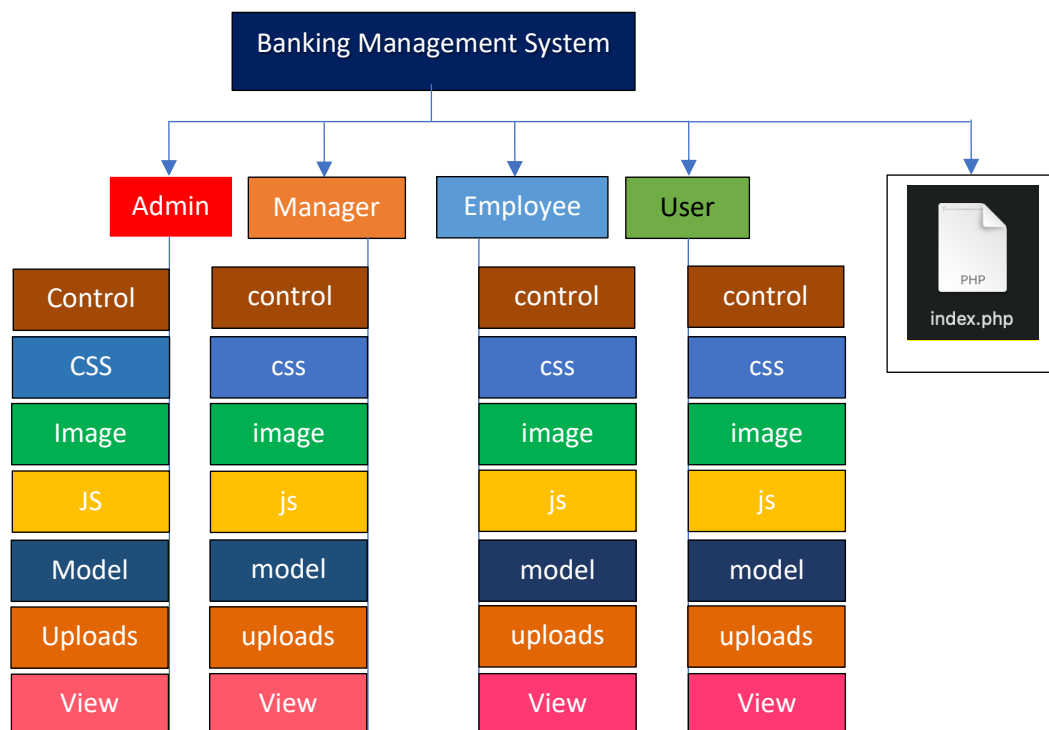
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Project Description:

Banking or financial sites are revolutionizing the banking sector in Bangladesh. Banking sites are used to conduct a range of financial transactions through the financial institution's website. It connects the core banking system operated by a bank to provide customers access to banking services in place of traditional branch banking. We are doing this project to be a part of this revolution and earn first-hand experience in the web technologies related to banking which is an integral part of software engineering. Through this, in depth idea regarding backend and the front end can be achieved. Furthermore, we can get knowledge about how to build a secure web application that is user-friendly in every aspect. Here Our project is the starting path of a well-organized project on Web Technologies. In this project, we tried to ensure an overall better user experience. We also tried to implement all the general banking features in the project. As a reference, we took City Bank as our ideal web page. It is a well-designed website that has everything a user commands whenever needed. It has all the needed information and operations organized. It gives a premium user experience and ensures all the services to users online. Besides we also take help from <https://www.w3schools.com/> is an online free learning platform.

Project Folder Structure:

We followed the layered architecture technique to attain the perfect structure for the folders used in our project. The idea behind Layered Architecture is that modules or components with similar functionalities are organized into horizontal layers. As a result, each layer performs a specific role within the application. Our project folder structure is described below.

We used control for storing PHP control files of the project, CSS folder for storing .css files, data for JSON, image for storing images that are used in the project, JavaScript for storing .js files, Model for the database queries, uploads for the uploaded files through the form. And lastly view for containing all the HTML files of the project.

Core Modules of the Project:

Otp.process.php

```
<?php

@include("../Model/db.php");

$showotp = "";

session_start();

$errors = array();

if(isset($_POST["enterotp"]))
{
    $_SESSION['info'] = "";
    $code = $_POST['otp'];

    if(empty($code))
    {
        $errors['emptyotp'] = "OTP is required";
    }
    else if(strlen($code) != 6)
    {
        $errors['digiterror'] = "OTP must be 6 digits";
    }
    else if(!is_numeric($code))
    {
        $errors['numericerror'] = "OTP must be numeric";
    }
    else
    {
        $mydb = new db();
        $mycon = $mydb->openConn();
        $result = $mydb -> otp_verification($code, "staticadmin",$mycon);
```

```
        if($result -> num_rows > 0)
        {
            $fetch_data = mysqli_fetch_assoc($result);
            $email = $fetch_data['email'];
            $_SESSION['email'] = $email;
            $info = "Please create a new password.";
            $_SESSION['info'] = $info;
            header("location: ../View/changepassword.php");
            exit();
        }
        else
        {
            $errors['invalidotp'] = "Invalid OTP";
        }
    }
}

if(isset($_POST["otpshowing"]))
{
    if(true)
    {
        $email = $_SESSION['email'];
        $mydb = new db();
        $mycon = $mydb -> openConn();
        $result = $mydb -> otp_showing($email, "staticadmin", $mycon);
        if($result -> num_rows > 0)
        {
            $myotp = $result->fetch_assoc();
            $showotp = $myotp["code"];
        }
    }
}

?>
```

atm.process.php

```
<?php

@include("../Model/db.php");

$errors = array();

session_start();
if (empty($_SESSION["username"]) && empty($_SESS["password"])){
    header("location: ../View/adminlogin.php");
}

@include("../View/header.php");
@include("../View/navbar.php");
@include("../View/adminsidebar.php");

if(isset($_POST["submit"]))
{
    $atm = $_POST["atm"];
    $type = $_POST["type"];
    $pin = $_POST["pin"];
    $accountno = $_POST["accountno"];

    $mydb = new db();
    $myconn = $mydb->openConn();
    $resultI = $mydb->retreiving_balance_from_passbook ("passbook",
    $myconn);
    $reI = $resultI->fetch_assoc();
    $balance = $reI["balance"];
    $err_no = -1;

    $resultII = $mydb-
>retriving_accountno_pin_from_details_table_for_selected_admins($accou
ntno, $pin, "details_table_for_selected_admins", $myconn);

    if($resultII->num_rows > 0)
    {
        if($type == "credit")
        {
            $final_balance = $balance + $atm;

            $resultIII = $mydb->
inserting_passbook_credit($accountno,$atm, $final_balance, "passbook",
$myconn);

            if($resultIII === true)
```

```
        {
            $err_no = 0;
        }
    }

    if($type == "debit")
    {
        $final_balance = $balance - $atm;

        if($final_balance >= 0)
        {
            $resultIV = $mydb->inserting_passbook_debit($accountno,$atm, $final_balance, "passbook",
            $myconn);

            if($resultIV === true)
            {
                $err_no = 0;
            }
        }
        else
        {
            $err_no = 1;
        }
    }
}
else
{
    $err_no = 2;
}
}

?>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

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

```
    <link rel="stylesheet" href="../../CSS/atmsuccess.css">
```

```
    <title>ATM Transactions</title>
```

```
</head>
```

```
<body>
```

```

<div class="flex-container">
  <div class="flex-item">
    <?php
      if ($err_no == -1)
      {
        ?>
        <p id="info"><?php echo "Connection Error ! Please try
again later.\n"; ?></p>
        <?php
        }
        ?>
        <?php
        if ($err_no == 0)
        {
          ?>
          <p id="info"><?php echo "Transaction Successful !\n"; ?></p>

          <?php
          }
          ?>
          <?php
          if ($err_no == 1)
          {
            ?>
            <p id="info"><?php echo "Insufficient Funds !\n"; ?></p>

            <?php
            }
            ?>
            <?php
            if ($err_no == 2)
            {
              ?>
              <p id="info"><?php echo "Please Fill The Information
Correctly !\n"; ?></p>
              <?php
              }
              ?>
            </div>

            <div class="flex-item">
              <a href="../../View/atm.php" class="button">Go Back</a>
            </div>
          </div>
</body>
</html>

```

transferfunds.process.php

```
<?php
@include("../Model/db.php");

session_start();
if (empty($_SESSION["username"]) && empty($_SESSION["password"])) {
    header("location: ../View/adminlogin.php");
}
@include("../View/header.php");
@include("../View/navbar.php");
@include("../View/adminsidebar.php");
$err_no = -1;

if(isset($_GET['accountno']))
{
    $receiver_accountno = $_GET['accountno'];
}

if(isset($_POST["submit"]))
{
    $accountno = $_POST["accountno"];
    $atm = $_POST["atm"];
    $pin = $_POST["pin"];

    $mydb = new db();
    $myconn = $mydb->openConn();
    $resultI = $mydb->retrive_data_from($pin,
    "details_table_for_selected_admins", $myconn);
    $row0 = $resultI->fetch_assoc();

    $resultII = $mydb->dataone($accountno,
    "details_table_for_selected_admins", $myconn);
    $row5 = $resultII->fetch_assoc();

    if($resultI -> num_rows >0)
    {
        $resultIII = $mydb-> balance_from_passbook("passbook",
        $myconn);
        $row1 = $resultIII->fetch_assoc();
        $sender_balance = $row1["balance"];

        $updated_sender_balance = $sender_balance - $atm;

        if($updated_sender_balance >= 0)
        {
```



```

        $resultIV = $mydb->datatwo("passbook", $myconn);
        $row2 = $resultIV->fetch_assoc();
        $receiver_balance = $row2["balance"];

        $updated_receiver_balance = $receiver_balance -
        $atm;

        $resultV = $mydb-> datathree($accountno,$row5, $atm,
        $updated_sender_balance, "passbook", $myconn);

        $resultVI = $mydb-> datafour($accountno,$row0, $atm,
        $updated_receiver_balance,"passbook", $myconn);

        if($resultV === true && $resultVI === true)
        {
            $err_no = 0;
        }
        else
        {
            $err_no = 1;
        }
    }
    else
    {
        $err_no = 2;
    }
}

?>

<!DOCTYPE html>
<html>
<head>
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <link rel="stylesheet" href="../../CSS/atmsuccess.css">
    <title>Transfer Some Funds to Others</title>
</head>

<body>
    <div class="flex-container">
        <div class="flex-item">
            <?php
            if ($err_no == -1)
            {

```

```
        ?>
        <p id="info"><?php echo "Connection Error ! Please try
again later.\n"; ?></p>
        <?php
        }
        ?>
        <?php
        if ($err_no == 0)
        {
        ?>
        <p id="info"><?php echo "Transfer Successful !\n"; ?></p>

        <?php
        }
        ?>
        <?php
        if ($err_no == 1)
        {
        ?>
        <p id="info"><?php echo "Insufficient Funds !\n";?></p>

        <?php
        }
        ?>
        <?php
        if ($err_no == 2)
        {
        ?>
        <p id="info"><?php echo "Fill the information
correctly !\n"; ?></p>
        <?php
        }
        ?>
    </div>

    <div class="flex-item">
        <a href="../../../View/transferfunds.php" class="button">Go Back</a>

    </div>
</div>

</body>
</html>
```