American International University- Bangladesh

CSC 3215: Web Technologies

Finished Project Report
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Project Title: **Banking Management System (City Bank)**
Section: **J**
Group No: **10**

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Banking Management System (City Bank)

Project Description:

Due to banking or financial websites, the banking sector in Bangladesh is undergoing a change. The financial institution's website allows users to conduct a number of different financial transactions via banking websites. It connects the main banking system used by banks to provide customers with access to financial services in place of traditional branch banking. We are working on this project in order to be a part of this revolution and gain first-hand knowledge of web technologies that are pertinent to banks and are an important aspect of software engineering. The front end and back end can both be thoroughly understood in this way. We can also learn how to create a safe online application that is also user-friendly in every way. Here A well-planned project on web technologies can be said to have its beginnings in our project. We worked hard to improve the user experience during this project. Additionally, we made an effort to include in the project all of the standard banking functionality.

We used City Bank as a starting point for our model website. A user may always find what they need on this well-designed website. It is organized with all the necessary data and processes. In addition to providing users with a first-rate online experience, it also guarantees all services. Also, we take help from ***https://www.w3schools.com/*** an online free learning platform.

❖ Four types of users:

a) Admin.
b) Manager.
c) Employee.
d) Customer.

➢ Common features for all user:

1. User registration.
2. Users can sign-in & sign-out from the system.
3. Users can view his/her profile & can update his/her profile.
4. Users can change password.

➢ Admin Functionality:

1. Can add new functionality of the system.
2. Can delete old functionality of the system.
3. Access on hole website.
4. Can verify user data & delete user's account.
5. Can edit manager, employee's & user's account.
6. Can search user & delete user history.
7. Can post notice or announcement.
8. Can view user data base & user's transection history.

➢ Manager Functionality:

1. Manage deposit & withdrawal.
2. Enable loan for customer.
3. Customer & Employee information. (Add + Delete + Update + View)
4. Manage accounts & Process customer request & Enable utilities.
5. Issue debit & credit card.
6. Can view work hour of the employees.
7. Transfer funds.
8. Search employee and Customer information and view user's transection history.

➢ Employee Functionality:

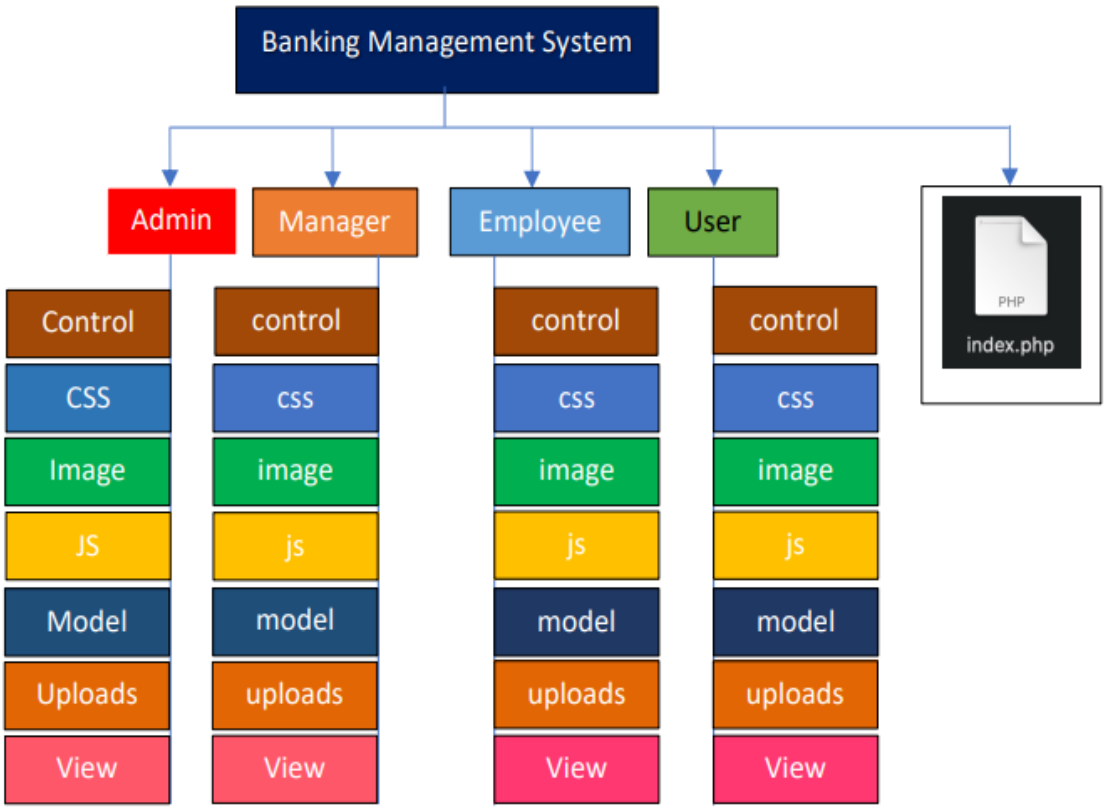
1. Can view customer information & customers' accounts.
2. Can open or close accounts.
3. Managing customers bank accounts & customers transitions.
4. Can manage debit and credit.
5. Can handle inquiries & handle the currency exchange.
6. Resolving client queries and complaints.
7. Can authorizing loans to the customers.
8. Monitoring ATM withdrawals, deposits and reconciling data at the conclusion of the work day.

➢ Customer's Functionality:

1. Can open a bank account.
2. Can select account type.
3. View account balance, deposit money & can transfer money.
4. Transfer funds to all related bank accounts.
5. Check unclear or due money status.
6. Utility bill payment through the system.
7. Add money through bank to card & can view transection history.
8. Can take loan services.

Project Folder Structure:

We used the layered architecture technique to design the appropriate folder arrangement for our project. The horizontal layering of modules or components with similar functionalities is the idea behind layered architecture. So, each layer serves a certain purpose within the program. The way our project folders are organized is explained in the section below.



We utilized control to store the PHP project control files, the CSS folder to store the .css files, data for JSON, image to store the project's images, JavaScript to store the .js files, Model for the database queries, and uploads to store files that were uploaded via the form. And finally, view for containing all of the project's HTML files.

Core Modules of the Project:

Adminlogincheck.php

```
<?php

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


session_start();

if (isset($_POST['submit']))
{
    $uname = $_POST['uname'];
    $password = $_POST['pass'];

    if ($uname != "" && $password != "")
    {
        $f = 0;
        $mydb = new db();
        $conobj = $mydb->openConn();
        $results = $mydb->loginadmin($conobj, "staticadmin", $_POST["uname"],
$_POST["pass"]);

        if ($results->num_rows > 0)
        {
            foreach ($results as $user)
            {
                if ($user["uname"] == $_POST["uname"] && $user["pass"] ==
$_POST["pass"])
                {
                    $_SESSION['username'] = $user["uname"];
                    $_SESSION['password'] = $user["pass"];
                    if (!empty($_POST["remember"]))
                    {
                     setcookie("uname", $_SESSION['username'],time()+ 86400);
                     setcookie("pass", $_SESSION['password'],time()+ 86400);

                        header("location: ../View/adminhomepage.php");
                    }
                    else
                    {
                        setcookie("uname", "");
                        setcookie("pass", "");
```

```
                        echo "";
                    }
                    header("location: ../View/adminhomepage.php");
                }
            }
        }
        else if ($f == 0)
        {
            header("location: ../view/adminlogin.php?login_info=incorrect");
            exit();
        }
    }
    if (empty($uname) && empty($password))
    {
        header("location: ../view/adminlogin.php?login=empty");
        exit();
    }
    else if (empty($uname))
    {
        header("location: ../view/adminlogin.php?username=empty");
        exit();
    }
    else if (empty($password))
    {
        header("location: ../view/adminlogin.php?password=empty");
        exit();
    }
    else
    {
        header("location: ../view/adminlogin.php?login=success");
        exit();
    }
}

?>
```

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-> retreving_balance_from_passbook ("passbook", $myconn);
    $reI = $resultI->fetch_assoc();
    $balance = $reI["balance"];
    $err_no = -1;

    $resultII = $mydb-
>retriving_accountno_pin_from_details_table_for_selected_admins($accountno,
$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
Currectly !\n"; ?></p>
            <?php
            }
            ?>
        </div>
        <div class="flex-item">
            <a href="../View/atm.php" class="button">Go Back</a>
        </div>
    </div>
</body>

</html>
```

post_news.process.php

```
<?php

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

$error = array();
$success = array();

if(isset($_POST["submit"]))
{
    $headline = $_POST["headline"];
    $news_details = $_POST["news_details"];

    if(empty($headline) && empty($news_details))
    {
        $error['fields-empty'] = "Please Fill all the fields to post news";
    }
    else if(empty($headline))
    {
        $error['headline-empty'] = "Enter News Headline";
    }
    else if(empty($news_details))
    {
        $error['news_details'] = "Write something to post";
    }
    else
    {
        $headline = $_POST["headline"];
        $news_details = $_POST["news_details"];

        $mydb = new db();
        $myconn = $mydb->openConn();
        $result = $mydb-> post_news($headline, $news_details, "news",
$myconn);

        if($result == true)
        {
            $success['news-added'] = "News Post Sucessfully";
        }
    }
}

?>
```