# 

# 

# 

**Bank Project**

**Cover Page**

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# User Interface

## **Add Screens IA**

The interface of the add screen within this project is configured to a conventional form, featuring labels with corresponding input fields. This structure facilitates the inputting of diverse details concerning customers and distinct account types, while concurrently enabling the display of crucial information.

Vertically aligned labels and input fields are put within a border, contributing to a visually coherent layout. The predominant colour scheme adopted throughout the screens is characterised by harmonious green and gold colours. This choice is quite philosophical, with green traditionally representing Ireland, and gold symbolising prosperity, a fitting pair of colours for a banking institution located in Ireland. This colour set is applied to various components such as the background, border, logo, text, and buttons. The logo itself is kept simple, displaying the word "gold" in Irish ("Oir") within a golden border against a green backdrop.

Additionally, there may be optional features such as a list box and search bar at the top of the form for enhanced functionality. Finally, a submission button located at the bottom of the form allows users to add or verify information for further processing.

## 

## **Delete Screens TR**

## 

The delete account screens in this project resembles a conventional form layout, featuring labels and input fields for account removal. This design streamlines the process of deleting various account details while also facilitating the presentation of important data.

Labels and input fields are arranged in a linear fashion and enclosed within a border, contributing to a tidy visual presentation. The main colour palette, consisting of forest green and gold tones, holds symbolic significance. Green, traditionally associated with Ireland, and gold, representing fortune, are ideal choices for such a bank. These colours are used all over the interface: in the background, borders, logos, text, and buttons as well. In addition, there are also extra features such as list box and search bar that are implemented in order to provide more functionality through the pages.

Finally, there is a button at the bottom of the screen that users can always click to confirm deleting their account, which initiates the process of removing data from the system

## **Amend/View Screens SR**

The Amend/View Screens follow a straightforward user interface design, following a typical form layout with labels and corresponding input boxes. This streamlines the process of confirming that the correct account has been chosen.

Additional features such as search boxes and a listbox are present at the top of the form, to ensure that an account can be retrieved with ease. A button is below these to allow the toggling of editable fields. All labels and inputs are aligned vertically within a border, contributing to a professional and tidy presentation.

The colour scheme present in the screens is a blend of Hunter Green, Japanese Laurel, Irish Green, White, and Goldenrod. The greens are symbolic of Ireland, which is perfect for a bank located within the country. The goldenrod is associated with wealth and prosperity; fitting, for a financial institution. These colours are present across various components, such as the variety of greens for backgrounds, goldenrod for borders, and white for text, to name but a few elements.

Finally, a “Save Changes” button is present, to confirm any changes being made to an account, and begin the process of amending the selected account with the given changes.

## **Report Screens DON**

The report screen follows an intuitive user focused design and dynamically updates as you fill out the form. We chose to implement it in this way so the user does not become overwhelmed with too many options at the beginning and the screen remains tidy. It begins with a green subject box with a goldenrod border and white text which follows the overall theme of the rest of the website.

The user is first presented with a title telling them where they are in the system and the purpose of the current page. They are also provided with short prompts showing the user how to use the current screen and generate a report. We used drop-downs and a date picker in order to receive input from the user laid out in a very simplistic form like manner. Finally once all relevant options have been selected by the user a new button appears at the bottom allowing them to generate a report based on the provided details. At all stages the user has the option to return to the beginning of the form via the return button positioned at the bottom of the subject box below the generate report button.

Upon generating a report a new subject box appears to the right of the form presenting transaction details in a clear and professional table like layout. This box follows the same look and feel as the rest of the website with white text on a green background surrounded by the classic golden border.

## **Menus IA**

The project's menu adopts a banner-style layout, characterised by a green background with white text. Upon hovering over the text, it transforms into a gold hue. Positioned centrally within the banner is the project's logo.

The main menu displays typical banking functionalities, including lodgements and withdrawals, with certain options potentially leading to subsections. For instance, selecting the "accounts" option triggers a dropdown menu, featuring further choices. This dropdown menu is distinguished by a gold background and black text to enhance user-interface. Worth to mention, while hovering the mouse cursor over a specific option, its associated subsections may be partially displayed in front of it for user convenience.

# 

# 

# 

# 

# System Layout DON

# 

# 

# 

# 

# 

# 

# 

# 

# 

# 

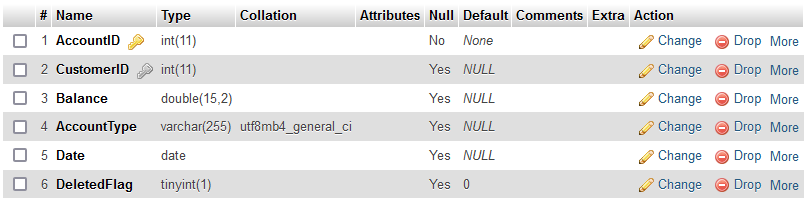
# 

# 

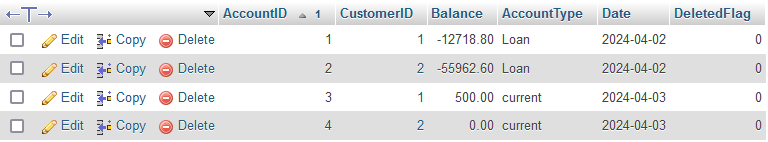
# Database Tables

## **Account Table IA**

### Table Structure:



### Sample Data:



## 

## **Currentaccount Table SR**

### Table Structure:

### 

### Sample Data:

### 

## **Customer Table IA**

### Table Structure:

## 

### Sample Data:

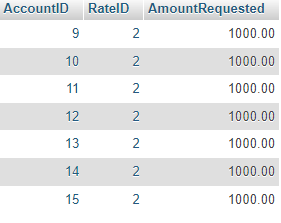
## 

## **Depositaccount Table DON**

### Table Structure:

## 

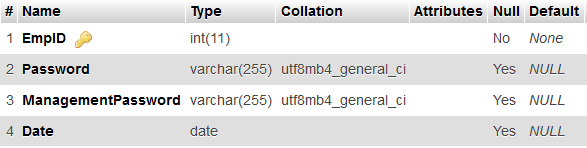
### Sample Data:



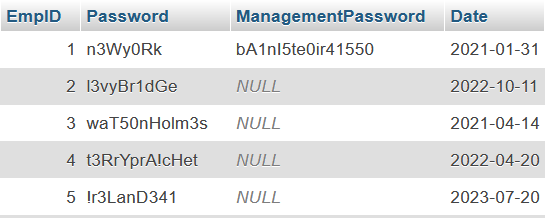
## 

## **Employee Table IA**

### Table Structure:



### Sample Data:



## 

## **Loanaccount Table DON**

### Table Structure:

## 

### Sample Data:

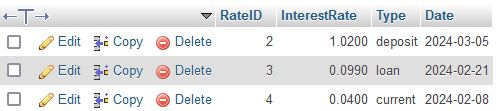
## 

## **Rate Table SR**

### Table Structure:

## 

### Sample Data:



## 

## 

## **Transaction Table IA**

### Table Structure:

## 

### Sample Data:

## 

# Group Work

# 

**Group Work**

Diarmuid O’Neill:

My main responsibilities as part of the group during the group work stage of the project was creating the ER diagram. I communicated with my team and created several drafts before creating the final diagram using StarUML. I also gave input on the general colour, layout and font of the website as a whole.

Isaiah Andres:

My main responsibilities during the group work section was to create drafts of the ER Model before the whole team finalised it’s design with everyone’s input in mind. I created a draft of the general layout on the main menu screen along with possible colour schemes before deciding to use a navigation bar at the top of the screen and gave suggestions for the design of the menu. I also wrote and edited the write up for the main menu’s design and the reasoning for each choice.

Stuart Rossiter:

My main responsibilities during the group work portion of the project was to code up the main menu and css, based on everyone’s input. I adapted the layout we had decided on to be suitable for a webpage, and utilised the colours and styling decided upon by the team.

## Homepage SR

# 

## Homepage Code SR

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="OIR BANK.css">

<title>OIR Banking System</title>

</head>

<body>

<?php include('/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php'); ?>

<!--The main WELCOME message for the system, styled with the subjectbox class. Any mention of subjectboxes refers to the boxes found within the main body of the page underneath the menu bar-->

<div class="subjectbox">

<h1>Welcome to the OIR Bank Interface!</h1>

<br><br><br><br><br>

<p class="subjectboxtext">

Please select an option from the menu above.<br>

For help, please refer to your 'OIR Banking &<br>

You' employee handbook.

</p>

</div>

</body>

</html>

## Main Menu PHP File Code SR

<!--

Name Of Screen: menu.php

Purpose Of Screen: File that displays the main menu as a php file to avoid copypasting the entire code throughout the screens

-->

<?php echo '

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="MainStyling.css">

<title>OIR Banking System</title>

</head>

<body>

<!--The start of the menu bar at the top-->

<div class="navbar">

<!--The list of items that make up the options on the top menu bar-->

<ul class="nav-list" style="list-style-type: none">

<li><a href="#">Lodgements</a></li>

<li><a href="/MainWebsiteCode/Withdrawals/withdrawCash.html.php">Withdrawals</a></li>

<!--Dropdown menu for customers-->

<li class="dropdown">

<a href="#">Customers</a>

<div class="dropdown-content">

<a href = "screen1.html" class="dropdownItem" href="#">Create</a><br>

<a class="dropdownItem" href="#">View/Amend</a><br>

<a class="dropdownItem" href="#">Delete</a>

</div>

</li>

<!--Dropdown menu for all accounts, with nested dropdown menus-->

<li class="dropdown">

<a href="#">Accounts</a>

<div class="dropdown-content">

<!--The dropdown menu for loan accounts, nested within the accounts dropdown menu-->

<div class="nestedLoan">

<a class="dropdownItem" href="#">Loan Account</a>

<div class="dropdown-content-loan">

<a class="dropdownItem" href="/MainWebsiteCode/OpenLoanAccountScreen/OpenLoanAccount.php">Create</a><br>

<a class="dropdownItem" href="/MainWebsiteCode/AmendViewLoanAccountScreen/AmendViewLoanAccount.php">View/Amend</a><br>

<a class="dropdownItem" href="/MainWebsiteCode/CloseLoanAccountScreen/CloseLoanAccount.php">Delete</a>

</div>

</div><br>

<!--The dropdown menu for current accounts, nested within the accounts dropdown menu-->

<div class="nestedCurrent">

<a class="dropdownItem" href="#">Current Account</a>

<div class="dropdown-content-current">

<a class="dropdownItem" href="/MainWebsiteCode/AddCurrentAccount/addCurrentAccount.html.php">Create</a><br>

<a class="dropdownItem" href="/MainWebsiteCode/AmendViewCurrentAccount/amendViewCurrentAccount.html.php">View/Amend</a><br>

<a class="dropdownItem" href="/MainWebsiteCode/DeleteCurrentAccount/deleteCurrentAccount.html.php">Delete</a>

</div>

</div><br>

<!--The dropdown menu for deposit accounts, nested within the accounts dropdown menu-->

<div class="nestedDeposit">

<a class="dropdownItem" href="#">Deposit Account</a>

<div class="dropdown-content-deposit">

<a class="dropdownItem" href="#">Create</a><br>

<a class="dropdownItem" href="#">View/Amend</a><br>

<a class="dropdownItem" href="#">Delete</a>

</div>

</div>

</div>

</li>

<!--Logo of the bank, which links back to the homepage-->

<li><a href="/MainWebsiteCode/OIR BANK.html.php"><img src="/MainWebsiteCode/logo2.png" alt="Brand logo"></a></li>

<li class="dropdown">

<a href="#">Management Menu</a>

<div class="dropdown-content">

<!--NOTE: nestedCurrent and dropdown-content-current are used here for the sake of reducing code redundancy. The name isnt fitting, but it works perfectly-->

<div class="nestedCurrent">

<a class="dropdownItem" href="#">Charge/Calculate Interest</a><br>

<div class="dropdown-content-current">

<a class="dropdownItem" href="/MainWebsiteCode/Placeholder/placeholder.html.php">Overdrawn Current Accounts</a><br>

<a class="dropdownItem" href="/MainWebsiteCode/Placeholder/placeholder.html.php">Deposit Accounts</a><br>

<a class="dropdownItem" href="/MainWebsiteCode/Placeholder/placeholder.html.php">Current Accounts</a>

</div>

</div>

<!--NOTE: nestedDeposit and dropdown-content-deposit areused here for the sake of reducing code redundancy. The name isnt fitting, but it works perfectly-->

<div class="nestedDeposit">

<a class="dropdownItem" href="#">Change Rates</a><br>

<div class="dropdown-content-deposit">

<a class="dropdownItem" href="/MainWebsiteCode/Placeholder/placeholder.html.php">Deposit Accounts</a><br>

<a class="dropdownItem" href="/MainWebsiteCode/Placeholder/placeholder.html.php">Current Accounts</a><br>

<a class="dropdownItem" href="/MainWebsiteCode/Placeholder/placeholder.html.php">Loan Accounts</a>

</div>

</div>

</li>

<li><a href="#">Quotes</a></li>

<li class="dropdown">

<a href="#">Reports</a>

<div class="dropdown-content">

<a class="dropdownItem" href="#">Deposit History</a><br>

<a class="dropdownItem" href="/MainWebsiteCode/AccountReportScreen/AccountReportScreen.php">Account Reports</a><br>

</div>

</li>

<li><a href="/MainWebsiteCode/Placeholder/placeholder.html.php">Change Password</a></li>

</ul>

</div>';

?>

## CSS File Code SR

/\*General formatting for the body including font color, margin, background color, and font style\*/

body

{

margin: 0;

background-color: #006600;

font-family: 'Times New Roman', Times, serif;

color: gold;

}

/\*formatting for any images on the page. will only be used for the logo.\*/

img

{

height: 100px;

width: 100px;

align-self: center;

position: relative;

top: -35px;

}

/\*Creates a flex box wherein all items are aligned evenly across the box, and centered vertically in the box\*/

.navbar

{

display:flex;

background-color: #004400;

justify-content: center;

flex-direction: row;

min-height: 50px;

max-height: 120px;

min-width:fit-content;

align-items: center;

}

/\*Applies styling to the navigation bar's list\*/

.nav-list

{

display: flex;

width: 100%;

justify-content: space-between;

min-height: 50px;

font-size: 20px;

padding-left: 20px;

padding-right: 20px;

}

/\*Applies some formatting to the list items, which make up the options on the menu bar\*/

li

{

display: block;

position: relative;

top: 35px;

padding-right: 6px;

}

/\*Alters how links appear in text, when they have been visited, when they are hovered, and when they are being clicked\*/

a:link

{

color:white;

text-decoration: none;

}

a:visited

{

color:white;

text-decoration: none;

}

a:hover

{

color:gold;

text-decoration: none;

}

a:active

{

color:goldenrod;

text-decoration: none;

}

/\*Adds seperate colors for links in the dropdown menus\*/

a.dropdownItem:link

{

color:#001100;

text-decoration: none;

}

a.dropdownItem:visited

{

color:#001100;

text-decoration: none;

}

a.dropdownItem:hover

{

color:#001100;

text-decoration: none;

}

a.dropdownItem:active

{

color:#001100;

text-decoration: none;

}

/\*Basic required class for the divs that contain dropdown menus\*/

.dropdown

{

position: relative;

display: inline-block;

}

/\*Formatting for the dropdown menus\*/

.dropdown-content

{

display: none;

position: absolute;

background-color: goldenrod;

min-width: 160px;

border: 3px solid rgb(152, 117, 28);

padding: 5px;

z-index: 1;

}

/\*Individual names are needed for all dropdown menus, so that hovering one menu does not display them all\*/

.dropdown-content-loan

{

display: none;

position: absolute;

background-color: goldenrod;

min-width: 160px;

border: 3px solid rgb(152, 117, 28);

padding: 5px;

z-index: 2;

}

.dropdown-content-current

{

display: none;

position: absolute;

background-color: goldenrod;

min-width: 160px;

border: 3px solid rgb(152, 117, 28);

padding: 5px;

z-index: 2;

}

.dropdown-content-deposit

{

display: none;

position: absolute;

background-color: goldenrod;

min-width: 160px;

border: 3px solid rgb(152, 117, 28);

padding: 5px;

z-index: 2;

}

/\*As above, the individual dropdown menus need their own names for classes\*/

.nestedLoan

{

position: relative;

display: inline-block;

}

.nestedCurrent

{

position: relative;

display: inline-block;

}

.nestedDeposit

{

position: relative;

display: inline-block;

}

/\* Show the dropdown menu on hover, for all individual dropdowns \*/

.dropdown:hover .dropdown-content

{

display: block;

}

.nestedLoan:hover .dropdown-content-loan

{

display: block;

}

.nestedCurrent:hover .dropdown-content-current

{

display: block;

}

.nestedDeposit:hover .dropdown-content-deposit

{

display: block;

}

/\*Styling for the boxes that appear in the page\*/

.subjectbox

{

display: inline-block;

vertical-align: top;

background-color: #009900;

padding: 10px;

color: #FFFFFF;

width: fit-content;

margin: 50px;

border-width: 4px;

border-style: solid;

border-image: linear-gradient(white, goldenrod) 30;

}

/\*Styling for the text that will appear in the subject boxes\*/

p.subjectboxtext

{

font-size: 20px;

}

/\*-------------------------------------------------------------------------------------------------------------------------------------\*/

/\*Styling for the fieldset which holds the form details and stays in line with the rest of the page\*/

.fieldsetCustomer

{

background-color: #009900; /\*Sets the background color to green \*/

padding: 10px; /\*Provides for spacing for the fieldset inside any defined borders\*/

color: #FFFFFF; /\*Makes the text color white \*/

width: fit-content; /\*Causes the width of the elements within the fieldset to use all the available space provided\*/

margin: 50px; /\*Provides for spacing for the fieldset outside any defined borders\*/

border-width: 4px; /\*Sets the width of the border to 4 pixels \*/

border-style: solid; /\*Sets the style of the border to be a solid line \*/

border-image: linear-gradient(white, goldenrod) 30; /\*Sets the border image to a linear gradient with white and gold colors which causes smooth transitions between the two colors as the form moves\*/

}

/\*Vertically aligning the fieldset labels, inputs and the button\*/

.fieldsetCustomer label

{

display: flex;

flex-direction: column; /\*Vertically aligns objects in the fieldset \*/

}

.fieldsetCustomer input

{

display: flex;

flex-direction: column;

width: fit-content; /\*Sets the width of the input boxes to use the available space in the fieldset \*/

}

.myButton

{

display: flex;

flex-direction: inline-block; /\*Allows for the buttons to be set up horizontally rather than vertically \*/

height: 20px; /\*Setting a height for the buttons \*/

}

.customerListbox4

{

position: relative;

bottom: 470px;

left: 200px;

}

.ReportBox

{

background-color: #009900;

padding: 10px;

color: #FFFFFF;

width: fit-content;

margin: auto;

border-width: 4px;

border-style: solid;

border-image: linear-gradient(white, goldenrod) 30;

}

.depositAccountDetails, .currentAccountDetails, .loanAccountDetails

{

border-style: solid;

}

.accountDetailText

{

font-size: 18px;

font-weight: bold;

}

/\*--------------------------------------------------------------------------------------------------------------------------------------\*/

.inputbox {

margin-top: 10px;

margin-left: 1%;

padding: 10px;

}

.inputbox label {

display: inline-block;

width: 120px;

margin-right: 10px;

}

.inputbox input {

display: inline-block; /\*Sets positioning width and height \*/

width: 150px;

height:20px;

text-align: left;

border-style: solid;

border-image: linear-gradient(white, goldenrod) 3;/\*colour of borders of input boxes\*/

background-color: white;

color: black;

}

.inputbox :disabled {

background-color: lightgray;

color: black;

}

.myButton2 {

margin-top: 20px;

padding: 3px;

margin-left: 30%;

}

.myButton3 {

width: 120px;

height:20px;

}

.selectbox {

width: 150px;

height:20px;

}

td, th {

min-width: 150px;

text-align: left;

}

.subjectbox2 /\* subject box for reportscreen \*/

{

display: inline-block;

vertical-align: top;

background-color: #009900;

padding: 10px;

color: #FFFFFF;

width: fit-content;

margin: 50px;

border-width: 4px;

border-style: solid;

border-image: linear-gradient(white, goldenrod) 30;

}

/\*--------------------------------------------------------------------------------------------------------------------------------------\*/

/\*Styling for the placeholder page, which is used for unimplemented screens\*/

.placeholder

{

text-align: center;

vertical-align: middle;

line-height: 100px;

position: absolute;

width: 500px;

height: 100px;

font-size: xx-large;

top: 50%;

left: 50%;

margin-left: -300px;

margin-top: -50px;

}

/\*Makes it so that the customer details form is layered downward\*/

form.customerDetails

{

display:flex;

flex-direction: column;

}

table

{

table-layout:fixed;

border-width: 4px;

border-style: solid;

border-image: linear-gradient(white, goldenrod) 30;

}

/\*--------------------------------------------------------------------------------------------------------------------------------------\*/

## Bank Connect File Code SR

<!--

Name Of Screen: bankConnect.inc.php

Purpose Of Screen: Establishes connection to the bank database

-->

<?php

$hostname = "localhost"; // name of host or ip address

$username = "mybankaccount"; //MySQL username

$password = 'B4nk$ecure;24'; //mySQL Password

$dbname = "BankProject"; //Database Name

$con = mysqli\_connect($hostname, $username, $password, $dbname); //Opens a new connection to the mysql server

if (!$con)

{

die("Failed to connect to MySQL: " . mysqli\_connect\_error());

}

?>

</body>

</html>

## Bank Logo SR

## 

# Individual Work

## **Diarmuid O’Neill:**

### OpenLoanAccountScreen.php

<?php

// Name : Diarmuid O'Neill

// Number : C00282898

// Description : Screen allowing a user to choose a customer to create a loan account for

// Date : March 2024

include "BankMenu.php"; // Includes the Bank Menu

include "bankConnect.inc.php"; // database connection

$customerID = ""; // Initialize the variable

session\_start();

if(isset($\_POST['Return']))

{

session\_unset(); // Clears all session variables

}

?>

<script src="AccountReport.js"></script> <!-- Links to javascript file -->

<div class="subjectbox">

<h1>Generate Account Report</h1>

<h4>Please select a customer for whom you want to generate an account report for</h4>

<h4>Then select the account for which you want to generate the report for </h4>

<!-- This form allows the user to select a customer that has either a loan account or current account -->

<form id="listboxform" action="AccountReportScreen.php" method="POST">

<?php

// This block of PHP relates to the customer drop-down listbox

if (isset($\_POST['listbox'])) // Checks if a customer has been selected

{

$allText=$\_POST['listbox'];

$selectedCustomerID = explode(", ", $allText)[0]; // Extract the CustomerID

$selectedFirstName = explode(", ", $allText)[1]; // Extract the FirstName

$selectedLastName = explode(", ", $allText)[2]; // Extract the LastName

session\_unset(); // Resets session variables if a new customer is selected

$\_SESSION['customerID']=$selectedCustomerID;

$\_SESSION['firstName']=$selectedFirstName;

$\_SESSION['lastName']=$selectedLastName;

}

else if (isset($\_SESSION['customerID'])) // Ensures selected customer is displayed until a new one is selected

{

$selectedCustomerID = $\_SESSION['customerID'];

}

// Selects distinct customers with either a loan or current account. Distinct ensures customers are not displayed more than once

$sql = "SELECT DISTINCT customer.CustomerID, FirstName, LastName FROM customer INNER JOIN account ON customer.CustomerID=account.CustomerID WHERE customer.DeletedFlag=0 AND account.DeletedFlag=0 AND (AccountType='loan' OR AccountType='current')";

if (!$result = mysqli\_query($con, $sql))

{

die('Error in querying the database' . mysqli\_error($con));

}

echo "<select class='selectbox' name='listbox' id='listbox'>"; // Listbox

while ($row = mysqli\_fetch\_array($result))

{

$customerID = $row['CustomerID']; // This block takes data from the rows in the database and assigns them to variables

$firstName = $row['FirstName'];

$lastName = $row['LastName'];

$allText = "$customerID, $firstName, $lastName";

if ($customerID == $selectedCustomerID) // Check if this customer matches the selected customer

{

echo "<option value='$allText' selected>$firstName $lastName</option>"; // If a customer has been previously selected the 'selected' attribute is set

}

else

{

echo "<option value='$allText'>$firstName $lastName</option>";

}

}

?>

</select>

<input class="myButton" type="submit" value="Select Customer">

</form>

<br>

<!-- This form allows the user to select an account for which to view transactions (it only appears after a customer has been selected) -->

<form id="accountboxform" action="AccountReportScreen.php" method="POST"> <!-- It will refresh the screen upon submission and post variables -->

<?php

// This block of PHP relates to the account drop-down listbox

if (isset($\_SESSION['customerID'])) // Checks if a customer has been selected

{

if (isset($\_POST['accountbox'])) // Checks if an account has been selected

{

$accountDetails=$\_POST['accountbox'];

$selectedAccountID = explode(", ", $accountDetails)[0]; // Extract the AccountID

$selectedAccountType = explode(", ", $accountDetails)[1]; // Extract the AccountType

$\_SESSION['AccountID']=$selectedAccountID;

$\_SESSION['accountType']=$selectedAccountType;

}

else if (isset($\_SESSION['AccountID'])) // Ensures selected account is displayed until a new one is selected

{

$selectedAccountID = $\_SESSION['AccountID'];

}

// Gets any current or loan accounts relating to the selected customer

$sql = "SELECT AccountID, AccountType FROM account WHERE CustomerID='$selectedCustomerID' AND DeletedFlag=0 AND (AccountType='loan' OR AccountType='current')";

if (!$result=mysqli\_query($con, $sql))

{

die( 'Error in querying the database'.mysqli\_error($con));

}

echo "<select class='selectbox' name='accountbox' id='accountbox'>"; // Listbox

while ($row=mysqli\_fetch\_array($result)) // Loops through the array while there are results in the array

{

$accountID = $row['AccountID'];

$accountType = $row['AccountType'];

$accountDetails = "$accountID, $accountType";

if ($accountID == $selectedAccountID) // Check if this customer matches the selected customer

{

echo "<option value = '$accountDetails' selected>$accountType Account</option>"; // Set 'selected' attribute

}

else

{

echo "<option value = '$accountDetails'>$accountType Account</option>"; // This populates the listbox with options

}

}

echo "</select>

<input class='myButton' type='submit' value='Select Account'>";

}

?>

</form>

<br>

<!-- This form allows the user to select a start date and end date for viewing recent transactions -->

<form id="dateform" action="AccountReportScreen.php" method="POST"> <!-- This form relates to generating the report -->

<?php

if (isset($\_POST['report'])) // If a date for the report has been previously selected

{

// Retrieve the start and end dates

$startDate = $\_POST['startDate'];

$endDate =$\_POST['endDate'];

// Store the selected start and end dates in session variables

$\_SESSION['startDate'] = $startDate;

$\_SESSION['endDate'] = $endDate;

}

if(isset($\_SESSION['AccountID'])) // If an account has been selected

{

$startDate = null;

if (isset($\_SESSION['startDate'])) // If a start date has previously been selected

{

$startDate = $\_SESSION['startDate'];

}

$endDate = null;

if (isset($\_SESSION['endDate'])) // If an end date has been previously selected

{

$endDate = $\_SESSION['endDate'];

}

// Echos out the date picker, if a date has previously selected it wil already display in the date picker

echo "<label for='startDate'>Start Date : </label>

<input type='date' id='startDate' name='startDate' value='$startDate'>

<br> <br>

<label for='endDate'>End Date : </label>

<input type='date' id='endDate' name='endDate' value='$endDate'>

<br> <br>

<button class='myButton' type='submit' name='report'>Generate Report</button>";

}

?>

</form>

<br>

<?php

// Php function that executes sql statement and processes results for report

function generateReport($con,$sql)

{

$result = mysqli\_query($con,$sql);

echo "<table>

<tr><th>Date</th><th>Transaction Type</th><th>Amount</th><th>Balance</th></tr>";

while ($row=mysqli\_fetch\_array($result))

{

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

<td>".$row['Type']."</td>

<td>".$row['Amount']."</td>

<td>".$row['Balance']."</td>

</tr>";

}

echo "</table>";

}

?>

<br>

<form id="Return" action="AccountReportScreen.php" method="POST">

<input class="myButton" type="submit" name="Return" value="Return"> <!-- Return button which allows user to return to start of report screen -->

<form>

</div>

<?php

if (isset($\_POST['report'])) // If a date has been set

{

echo "<div class='subjectbox' id='transactionResults'>";

$accountID=$\_SESSION['AccountID']; // Get all needed data for report from session variables

$startDate=$\_SESSION['startDate'];

$endDate=$\_SESSION['endDate'];

$firstName=$\_SESSION['firstName'];

$lastName=$\_SESSION['lastName'];

$accountType=$\_SESSION['accountType'];

echo "<h2 style='text-decoration : underline;'>" . $accountType . " Account Report</h2>";

echo "<h4>AccountID : " . $accountID . " &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; Customer Name : " . $firstName . " " . $lastName . "</h4>";

if ($startDate!='' && $endDate!='') // If start date and end date have been set get the transactions between those dates

{

$sql = "SELECT transaction.Date, Type, Amount, transaction.Balance FROM transaction INNER JOIN account ON account.AccountID=transaction.AccountID WHERE transaction.AccountID='$accountID' AND (transaction.Date>='$startDate' AND transaction.Date<='$endDate')";

}

else // If start date and end date have not been set get the transactions from the last six months

{

$endDate=date('Y-m-d'); // end date is set to today

$startDate=date('Y-m-d', strtotime('-6 months')); // start date is set to six months back from today

$sql = "SELECT transaction.Date, Type, Amount, transaction.Balance FROM transaction INNER JOIN account ON account.AccountID=transaction.AccountID WHERE transaction.AccountID='$accountID' AND (transaction.Date>='$startDate' AND transaction.Date<='$endDate')";

}

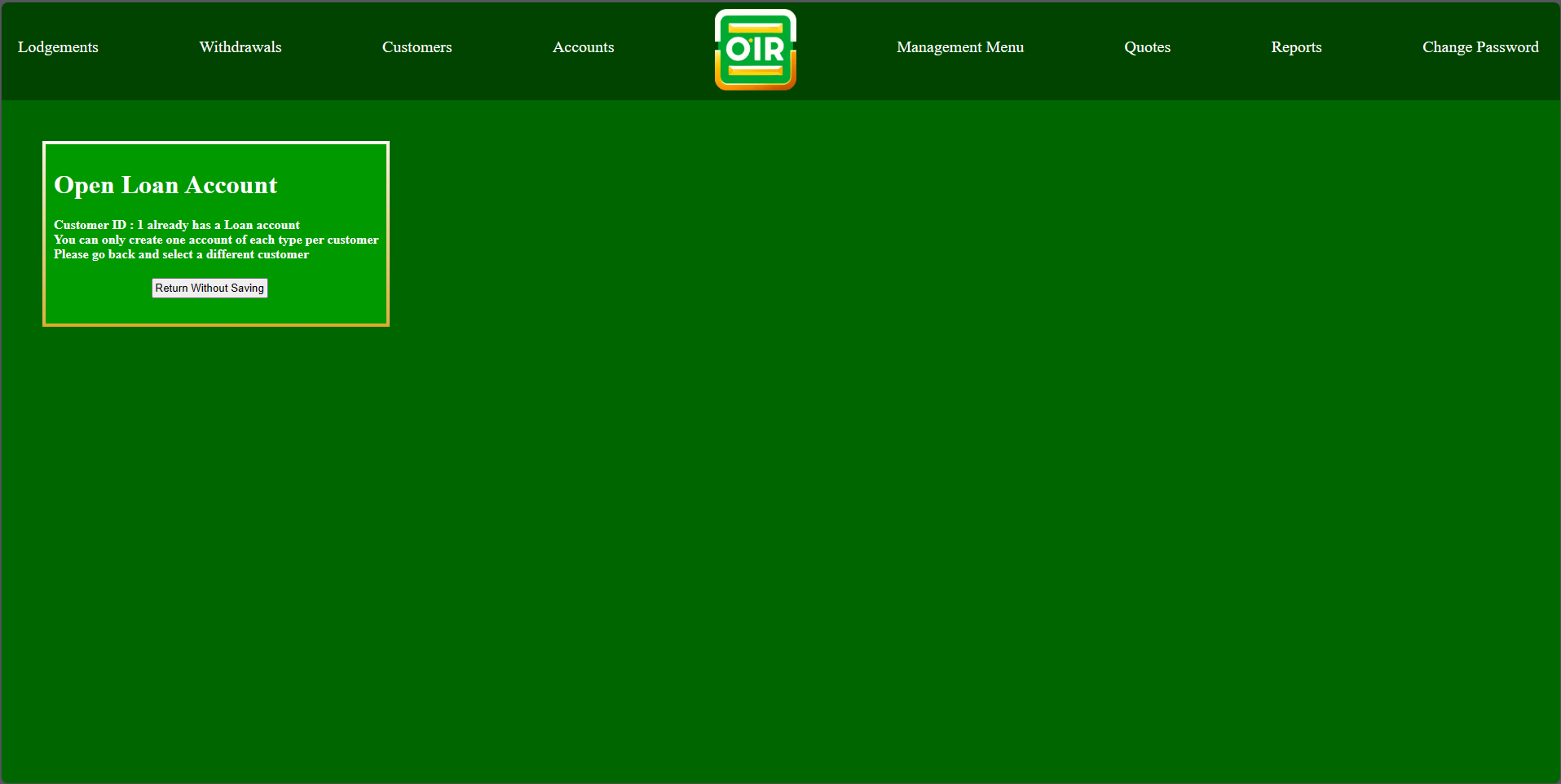
generateReport($con,$sql); // Generate report

echo "</div>";

}

### ?>

### CheckLoanAccount.php



<?php

// Name : Diarmuid O'Neill

// Number : C00282898

// Description : Screen which performs some checks on entered data, moves to next screen if data is valid or displays an error if not

// Date : Feb 2024

include "BankMenu.php"; // Includes Bank Menu

?>

<div class="subjectbox">

<h1>Open Loan Account</h1>

<?php

session\_start();

$\_SESSION['showID']=$\_POST['showID']; // Sets session variables

$fname=$\_POST['showFirstName'];

$lname=$\_POST['showLastName'];

$\_SESSION['showFirstName']=$fname;

$\_SESSION['showLastName']=$lname;

$CustomerID = $\_SESSION['showID'];

if ($CustomerID) // Checking to make sure a customer has actually been selected

{

include "bankConnect.inc.php"; // database connection

$sql = "SELECT AccountID FROM account WHERE DeletedFlag=0 AND CustomerID='$CustomerID' AND AccountType='loan'"; // Checking to make sure customer does not already have a loan account

if (!$result=mysqli\_query($con, $sql)) // Query executed

{

die( 'Error in querying the database'.mysqli\_error($con));

}

if (mysqli\_num\_rows($result) > 0) // if results are returned

{

echo "<h4>Customer ID : " . $CustomerID . " already has a Loan account<br>You can only create one account of each type per customer<br>Please go back and select a different customer";

}

else

{

header('Location: SetupLoanAccount.php'); // Links to next page

}

}

else

{

echo "<h4>Error, No customer selected, Please go back and select a customer</h4>"; // Error checking

}

?>

<form action="OpenLoanAccount.php">

<button type="submit" class="myButton">Return Without Saving</button> <!-- Allows user to return to previous page -->

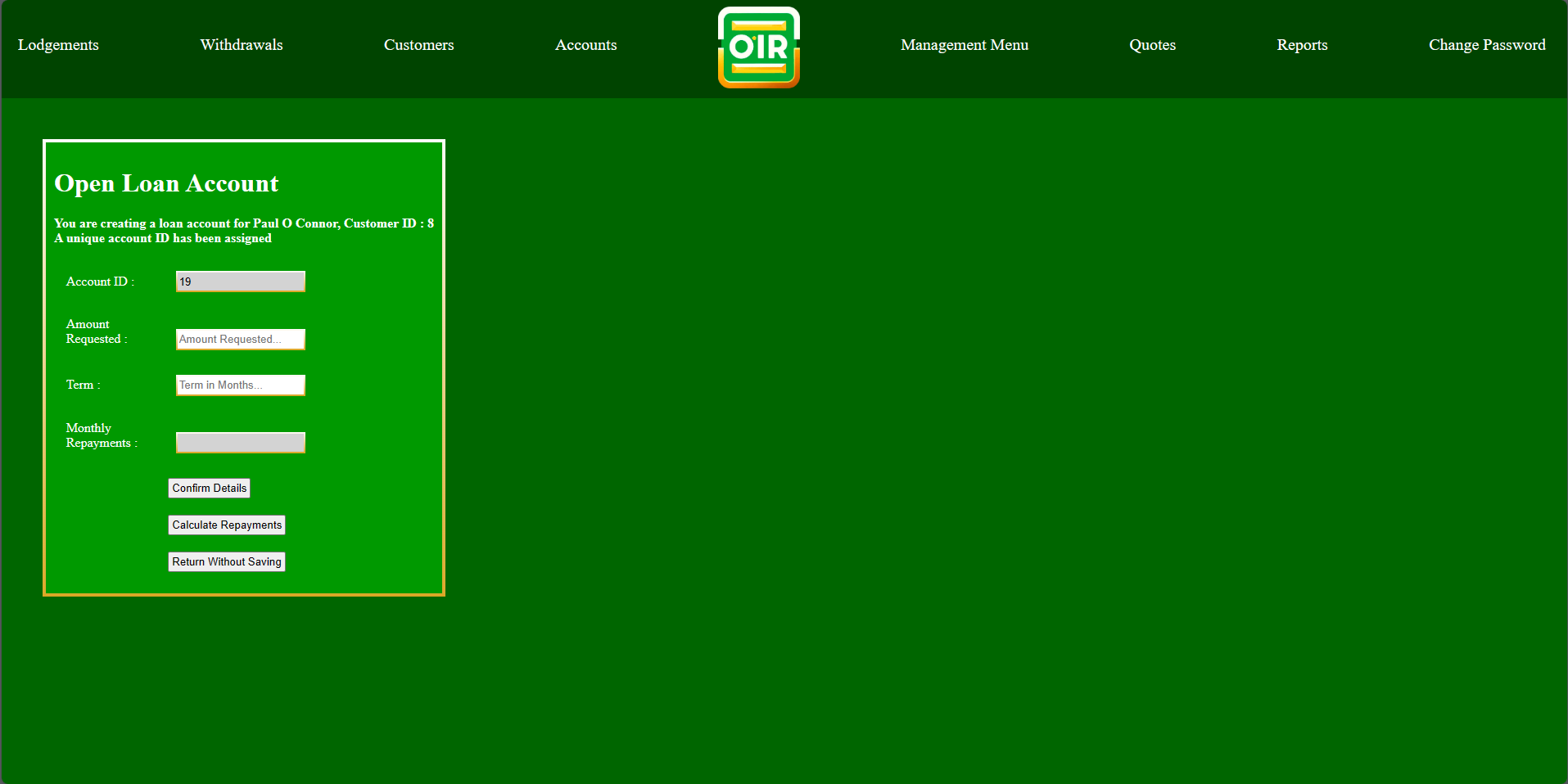
</form>

</div>

</body>

</html>

### SetupLoanAccount.php



<?php

// Name : Diarmuid O'Neill

// Number : C00282898

// Description : Screen which requests some more data from the user regarding the creation of a loan account

// Date : Feb 2024

include "BankMenu.php"; // includes the BankMenu

session\_start();

?>

<script src="OpenLoanAccount.js"></script> <!-- Links to javascript file -->

<div class="subjectbox">

<h1>Open Loan Account</h1>

<?php

$CustomerID = $\_SESSION['showID']; // Getting data from session variables

$firstName = $\_SESSION['showFirstName'];

$lastName = $\_SESSION['showLastName'];

include "bankConnect.inc.php"; // Database connection

echo "<h4>You are creating a loan account for " . $firstName . " " . $lastName . ", Customer ID : " . $CustomerID . "<br>A unique account ID has been assigned</h4>";

$sql = "SELECT AccountID FROM account WHERE AccountID=(SELECT MAX(AccountID) FROM account)"; // Getting the most recent AccountID from the account table (from both active and inactive accounts)

if (!$result=mysqli\_query($con, $sql)) // Executes query

{

die( 'Error in querying the database'.mysqli\_error($con)); // Error checking

}

if (mysqli\_num\_rows($result) > 0) // If there are results found

{

$row = mysqli\_fetch\_assoc($result);

$AccountID = ($row['AccountID']+1); // Gets accountID of next account to be created

}

else

{

$AccountID=1;

}

$sql = "SELECT InterestRate FROM rate WHERE RateID=3"; // Getting a hold of the annual loan account interest rate for loan calculations

if (!$result=mysqli\_query($con, $sql)) // Executes query

{

die( 'Error in querying the database'.mysqli\_error($con)); // Error checking

}

if (mysqli\_num\_rows($result) > 0) // If results found

{

$row = mysqli\_fetch\_assoc($result);

$InterestRate = $row['InterestRate'];

$\_SESSION['interest']=$InterestRate; // Put the interest rate into a session variable

}

mysqli\_close($con); // Closes database connection

?>

<script> var InterestRate = <?php echo $InterestRate; // Assigns Interest rate to a variable in javascript ?>; </script>

<p id="display">

<form id="myForm" onsubmit="return confirmCheck()" onload="lock2()" action="LoanAccountTransaction.php" method="POST"> <!-- Asks the user to confirm, moves to LoanAccountTransaction upon submission, lock2 locks the form onload -->

<div class="inputbox">

<label>Account ID : </label>

<input type="text" tabindex="-1" name="showID" id="showID" disabled value="<?php echo $AccountID; ?>">

</div>

<div class="inputbox">

<label>Amount Requested : </label>

<input type="number" min="0" step="100" name="amountReq" id="amountReq" placeholder="Amount Requested..." required>

</div>

<div class="inputbox">

<label>Term : </label>

<input type="number" min="0" step="1" name="term" id="term" placeholder="Term in Months..." required>

</div>

<div class="inputbox">

<label>Monthly Repayments : </label>

<input type="number" name="monthly" id="monthly" disabled>

</div>

<input class="myButton" onclick="update()" type="submit" value="Confirm Details"> <!-- Update() calculates monthly repayments -->

</form>

<button onclick="update()" class="myButton">Calculate Repayments</button> <!-- Calculates repayments and populates relavent form field -->

<form action="OpenLoanAccount.php">

<button type="submit" class="myButton">Return Without Saving</button> <!-- Allows user to return to the previous page -->

</form>

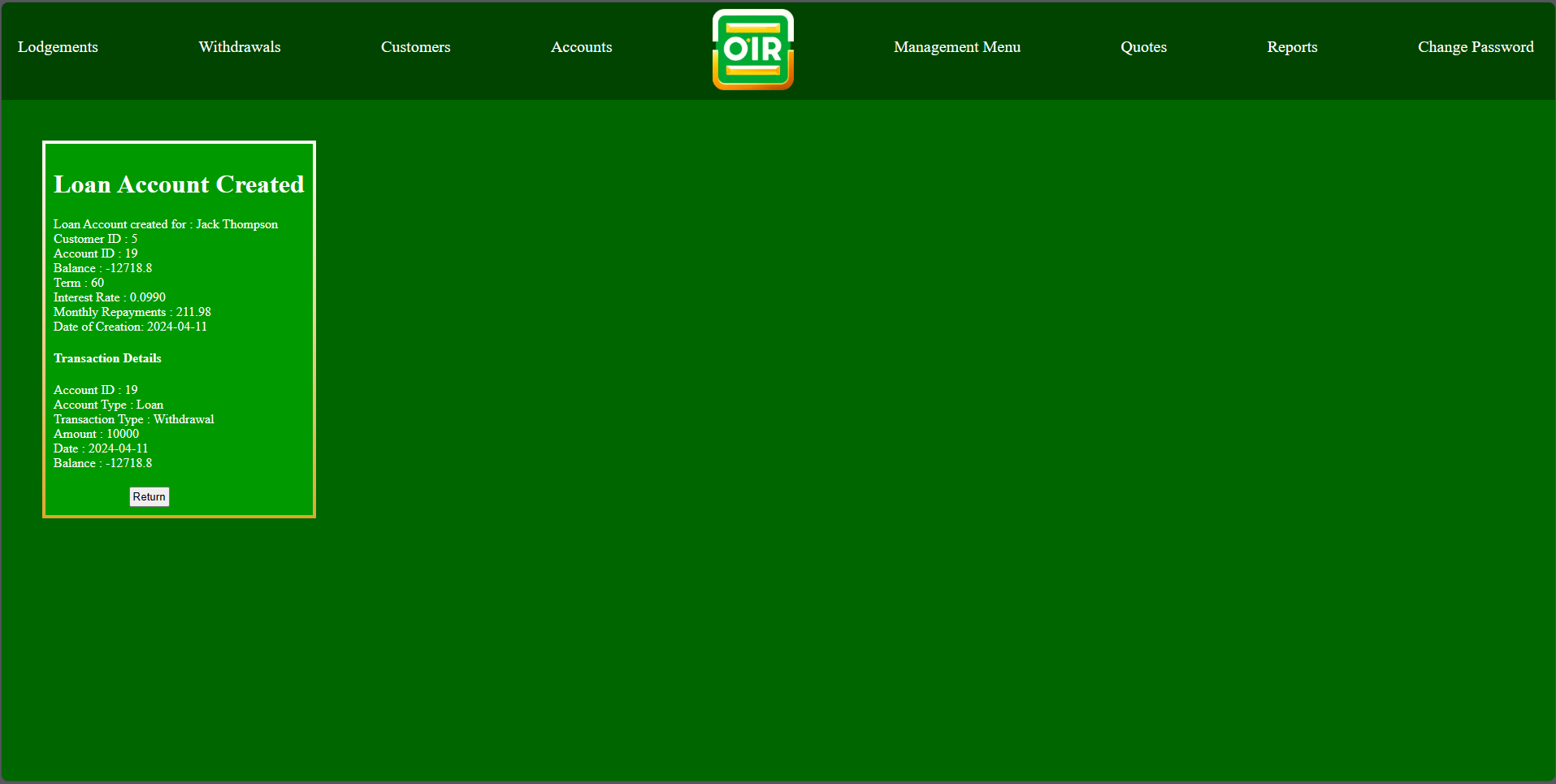
</p>

</div>

</body>

</html>

### LoanAccountTransaction.php



<?php

// Name : Diarmuid O'Neill

// Number : C00282898

// Description : Screen which actually creates an account record and loan account record and displays confirmation to the user

// Date : Feb 2024

include "BankMenu.php"; // Links to BankMenu

include "bankConnect.inc.php"; // database connection

session\_start();

?>

<div class="subjectbox">

<h1>Loan Account Created</h1>

<?php

$CustomerID=$\_SESSION['showID']; // Assigns variables for all needed data

$AccountID=$\_POST['showID'];

$AmountReq=$\_POST['amountReq'];

$MonthlyRepayments=$\_POST['monthly'];

$Term=$\_POST['term'];

$Balance=($MonthlyRepayments\*$Term)-(($MonthlyRepayments\*$Term)\*2); // This calculates the total balance payable for the loan and makes it a negative number

$TodayDate = date("Y-m-d");

$firstName=$\_SESSION['showFirstName'];

$lastName=$\_SESSION['showLastName'];

$interestRate=$\_SESSION['interest'];

$sql = "INSERT INTO account (AccountID, CustomerID, Balance, AccountType, Date) VALUES ('$AccountID','$CustomerID','$Balance','Loan','$TodayDate')"; // This is the sql statement for creating a basic account

if (!mysqli\_query($con, $sql))

{

die ("An error in the SQL Query : " . mysqli\_error($con) ); // Error checking

}

$sql = "INSERT INTO loanaccount (AccountID, RateID, AmountRequested, Term, MonthlyRepayments) VALUES ('$AccountID',3,'$AmountReq','$Term','$MonthlyRepayments')"; // This is the sql statement for creating a loan account

if (!mysqli\_query($con, $sql))

{

die ("An error in the SQL Query : " . mysqli\_error($con) ); // Error checking

}

else

{

echo "Loan Account created for : " . $firstName . " " . $lastName; // Provides confirmation to the user after a loan account has been created

echo "<br>Customer ID : " . $CustomerID;

echo "<br>Account ID : " . $AccountID;

echo "<br>Balance : " . $Balance;

echo "<br>Term : " . $Term;

echo "<br>Interest Rate : " . $interestRate;

echo "<br>Monthly Repayments : " . $MonthlyRepayments;

echo "<br>Date of Creation: " . $TodayDate;

}

$sql = "SELECT TransactionID FROM transaction WHERE TransactionID=(SELECT MAX(TransactionID) FROM transaction)"; // Getting the most recent TransactionID from the account table (from both active and inactive accounts)

if (!$result=mysqli\_query($con, $sql)) // Executes query

{

die( 'Error in querying the database'.mysqli\_error($con)); // Error checking

}

if (mysqli\_num\_rows($result) > 0) // If there are results found

{

$row = mysqli\_fetch\_assoc($result);

$transactionID = ($row['TransactionID']+1); // Gets accountID of next account to be created

}

else

{

$transactionID=1;

}

$sql = "INSERT INTO transaction (TransactionID, AccountID, AccountType, Type, Amount, Date, Balance) VALUES ('$transactionID','$AccountID','Loan','Withdrawal','$AmountReq','$TodayDate','$Balance')"; // SQL statement for creating a transaction record

if (!mysqli\_query($con, $sql))

{

die ("An error in the SQL Query : " . mysqli\_error($con) ); // Error checking

}

else

{

echo "<br><h4>Transaction Details</h4>"; // Provides a printout of the created transaction

echo "Account ID : " . $AccountID;

echo "<br>Account Type : Loan";

echo "<br>Transaction Type : Withdrawal";

echo "<br>Amount : " . $AmountReq;

echo "<br>Date : " . $TodayDate;

echo "<br>Balance : " . $Balance;

}

mysqli\_close($con); // Closes database connection

?>

<form action="OpenLoanAccount.php">

<button type="submit" class="myButton">Return</button> <!-- Allows user to return to OpenLoanAccount screen -->

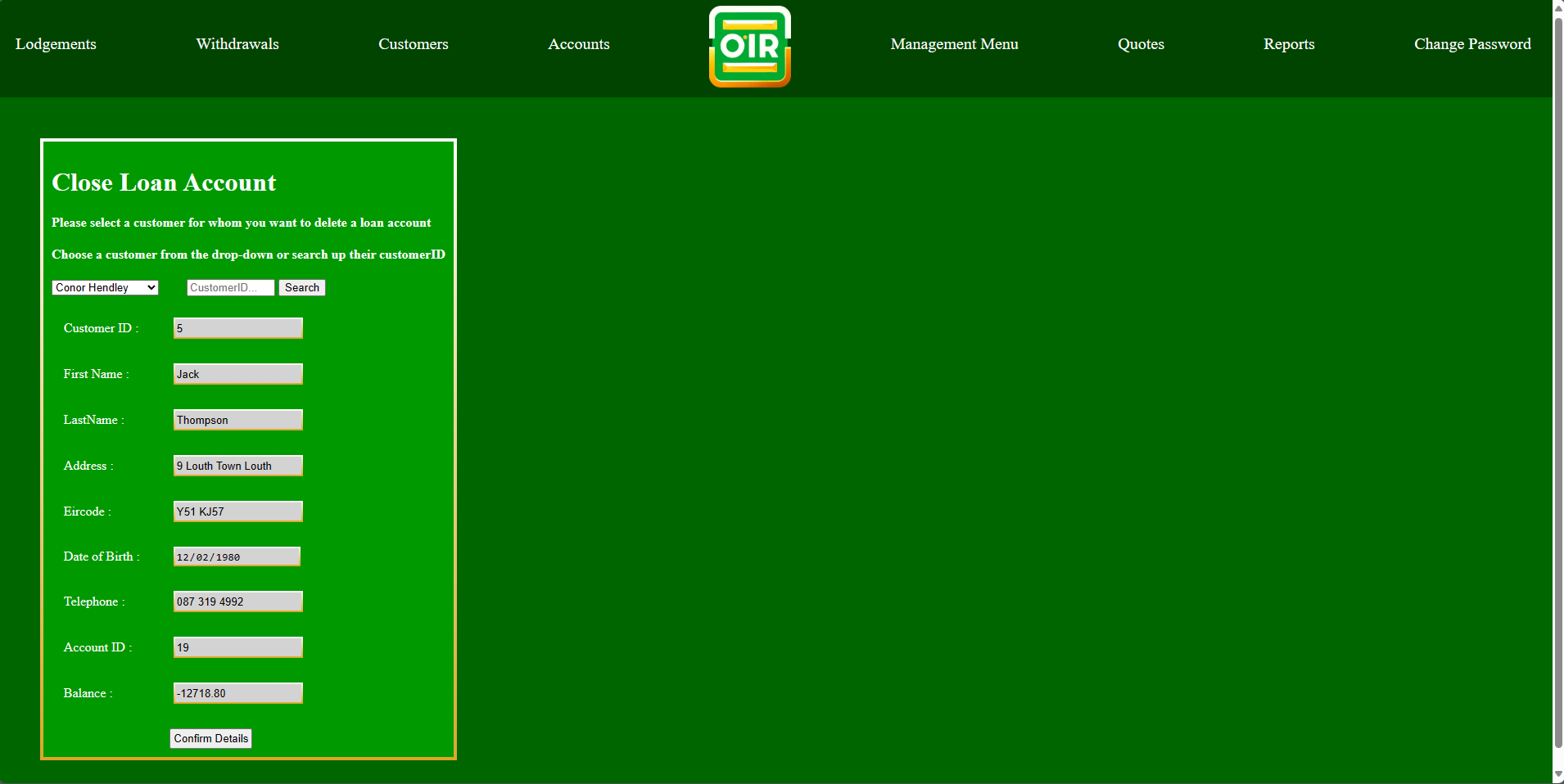
</form>

</div>

</body>

</html>

### CloseLoanAccount.php



<?php

// Name : Diarmuid O'Neill

// Number : C00282898

// Description : Screen allowing a user to choose a customer for whom they want to close a loan account

// Date : March 2024

include "BankMenu.php"; // Includes BankMenu.php

include "bankConnect.inc.php";

?>

<script src="CloseLoanAccount.js"></script> <!-- This links to the javascript file containing all the functions needed for closing a loan account -->

<div class="subjectbox">

<h1>Close Loan Account</h1>

<h4>Please select a customer for whom you want to delete a loan account</h4>

<h4>Choose a customer from the drop-down or search up their customerID </h4>

<p class="subjectboxtext">

<form action="CloseLoanAccount.php" method="POST"> <!-- This Form relates to the searchbar, upon searching the page is refreshed and the main form is populated --><!-- -->

<?php

// This block of PHP relates to the drop-down listbox

// This gets the customer details

$sql = "SELECT customer.CustomerID, FirstName, LastName, Address, Eircode, DOB, Telephone, AccountID, Balance FROM customer INNER JOIN account ON customer.CustomerID=account.CustomerID WHERE customer.DeletedFlag=0 AND AccountType='loan' AND account.DeletedFlag=0";

if (!$result=mysqli\_query($con, $sql))

{

die( 'Error in querying the database'.mysqli\_error($con));

}

echo "<select name='listbox' id='listbox' onclick='populate()'>"; // Listbox, upon clicking the main form is populated with the data of the selected customer

while ($row=mysqli\_fetch\_array($result)) // Loops through the array while there are results in the array

{

$CustomerID = $row['CustomerID']; // This block takes data from the rows in the database and assigns them to variables

$FirstName = $row['FirstName'];

$LastName = $row['LastName'];

$Address = $row['Address'];

$Eircode = $row['Eircode'];

$dateOfBirth = $row['DOB'];

$DOB = date\_create($row['DOB']);

$DOB = date\_format($DOB, "Y-m-d");

$Telephone = $row['Telephone'];

$AccountID = $row['AccountID'];

$Balance = $row['Balance'];

$allText = "$CustomerID, $FirstName, $LastName, $Address, $Eircode, $DOB, $Telephone, $AccountID, $Balance";

echo "<option value = '$allText'>$FirstName $LastName</option>"; // This populates the listbox with options

}

echo "</select>";

?>

<input style="width: 100px; margin-left:30px;" type="text" name="search" placeholder="CustomerID..." > <!-- SearchBox -->

<button type="submit">Search</button> <!-- Search Button, populates main form upon clicking -->

</form>

<?php

// This block of php relates to the searchbar

$customerID=null; // CustomerID initialized to null

if(isset($\_POST['search']))

{

$customerID=$\_POST['search'];

// Gets the customer details

$sql = "SELECT customer.CustomerID, FirstName, LastName, Address, Eircode, DOB, Telephone, AccountID, Balance FROM customer INNER JOIN account ON customer.CustomerID=account.CustomerID WHERE customer.DeletedFlag=0 AND customer.CustomerID='$customerID' AND AccountType='loan' AND account.DeletedFlag=0";

if (!$result=mysqli\_query($con, $sql))

{

die( 'Error in querying the database'.mysqli\_error($con));

}

if (mysqli\_num\_rows($result) > 0)

{

$row = mysqli\_fetch\_assoc($result);

// Fetching values from the database

$CustomerID = $row['CustomerID'];

$FirstName = $row['FirstName'];

$LastName = $row['LastName'];

$Address = $row['Address'];

$Eircode = $row['Eircode'];

$DOB = date('Y-m-d', strtotime($row['DOB']));

$Telephone = $row['Telephone'];

$AccountID = $row['AccountID'];

$Balance = $row['Balance'];

}

else

{

// Handle case when no results are found

$CustomerID = $FirstName = $LastName = $Address = $Eircode = $DOB = $Telephone = $AccountID = $Balance = "";

}

mysqli\_close($con); // Closes database connection

}

?>

<p id="display">

<form id="myForm" action="CheckCloseLoanAccount.php" onload="lock()" onsubmit="return confirmDelete()" method="POST"> <!-- locks form onload, prompts user to confirm details and unlocks form to allow posting, moves to CheckCloseLoanAccount.php upon submission -->

<div class="inputbox">

<label>Customer ID : </label>

<input type="text" name="showID" id="showID" disabled value="<?php echo $CustomerID; ?>">

</div>

<div class="inputbox">

<label>First Name : </label>

<input type="text" name="showFirstName" id="showFirstName" disabled value="<?php echo $FirstName; ?>">

</div>

<div class="inputbox">

<label>LastName : </label>

<input type="text" name="showLastName" id="showLastName" disabled value="<?php echo $LastName; ?>">

</div>

<div class="inputbox">

<label>Address : </label>

<input type="text" name="showAddress" id="showAddress" disabled value="<?php echo $Address; ?>">

</div>

<div class="inputbox">

<label>Eircode : </label>

<input type="text" name="showEircode" id="showEircode" disabled value="<?php echo $Eircode; ?>">

</div>

<div class="inputbox">

<label>Date of Birth : </label>

<input type="date" name="showDOB" id="showDOB" disabled value="<?php echo $DOB; ?>">

</div>

<div class="inputbox">

<label>Telephone : </label>

<input type="text" name="showTelephone" id="showTelephone" disabled value="<?php echo $Telephone; ?>">

</div>

<div class="inputbox">

<label>Account ID : </label>

<input type="text" name="showAccountID" id="showAccountID" disabled value="<?php echo $AccountID; ?>">

</div>

<div class="inputbox">

<label>Balance : </label>

<input type="text" name="showBalance" id="showBalance" disabled value="<?php echo $Balance; ?>">

</div>

<input class="myButton" type="submit" value="Confirm Details">

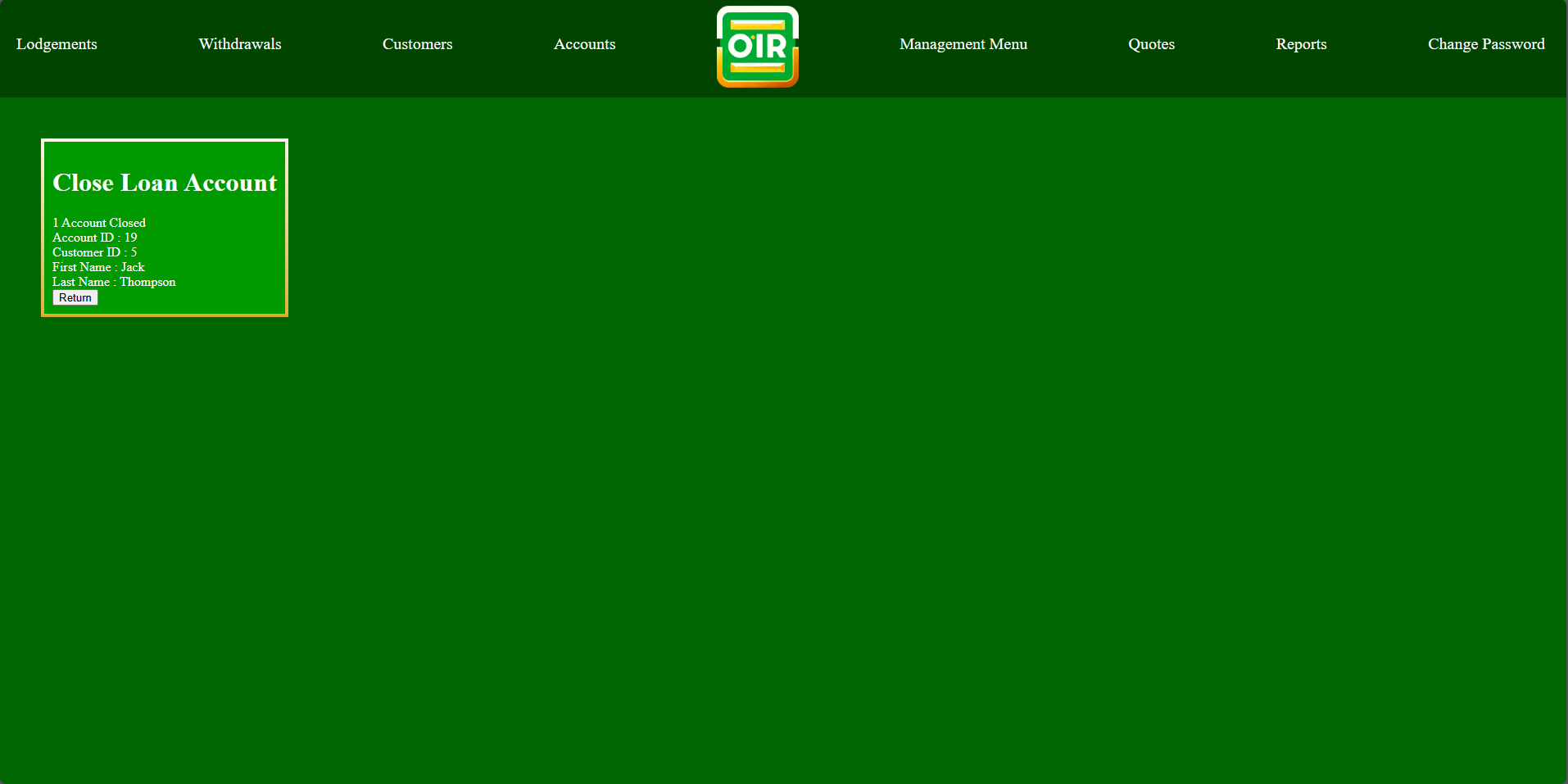
</form>

</div>

</body>

</html>

### CheckCloseLoan.php



<?php

// Name : Diarmuid O'Neill

// Number : C00282898

// Description : Screen for validating entered data and closing a loan account, also provides confirmation/error messages

// Date : March 2024

include "BankMenu.php"; // This includes BankMenu

?>

<div class="subjectbox">

<h1>Close Loan Account</h1>

<?php

include "bankConnect.inc.php"; // Database connection

$customerID = $\_POST['showID']; // Gets needed values from previous form and assigns them to variables

$fname = $\_POST['showFirstName'];

$lname = $\_POST['showLastName'];

$accountID = $\_POST['showAccountID'];

$balance = $\_POST['showBalance'];

if ($customerID) // Checking to make sure a customer has actually been selected

{

if ($balance != 0) // Making sure balance is 0 before allowing deletion

{

echo "<h4>Error, account balance must be 0 before account is eligible for deletion</h4>";

echo "No changes made";

}

else // Case executes if balance is 0

{

$sql = "UPDATE account SET DeletedFlag=1 WHERE AccountID='$accountID'"; // Sets deleted flag to 1 (closing account)

if(!mysqli\_query($con,$sql)) // Executes sql statement

{

echo "Error ".mysqli\_error($con); // Error Checking

}

else

{

if (mysqli\_affected\_rows($con) != 0) // If the effected rows is greater than 0

{

echo mysqli\_affected\_rows($con)." Account Closed"; // Writes out a confirmation message to the user confirming account is deleted

echo "<br>Account ID : ". $accountID;

echo "<br>Customer ID : ". $customerID;

echo "<br>First Name : ". $fname;

echo "<br>Last Name : ". $lname;

}

else

{

echo "No records were changed";

}

}

}

}

else // Case executes if no customer is selected

{

echo "<h4>Error, No customer selected, Please go back and select a customer</h4><br>";

echo "<h4>No changes made</h4>";

}

?>

<form action="CloseLoanAccount.php">

<button type="submit" class="myButton">Return</button> <!-- button for returning to CloseLoanAccount.php -->

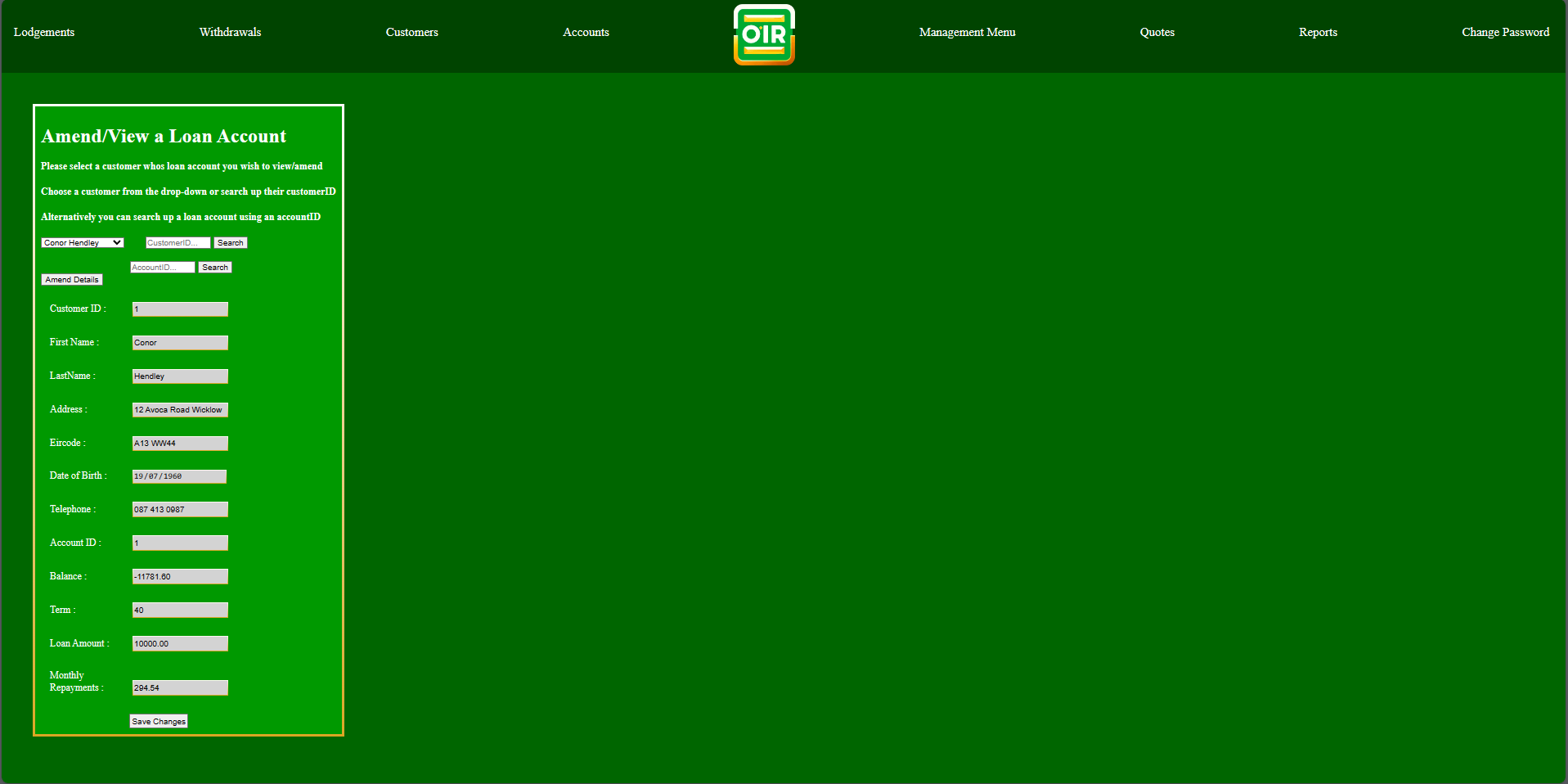
</form>

</div>

</body>

</html>

### AmendViewLoanAccount.php



<?php

// Name : Diarmuid O'Neill

// Number : C00282898

// Description : Screen allowing a user to choose an account to view or amend

// Date : March 2024

include "BankMenu.php"; // Includes the Bank Menu

include "bankConnect.inc.php"; // database connection

?>

<script src="AmendViewLoanAccount.js"></script> <!-- Links to javascript file -->

<div class="subjectbox">

<h1>Amend/View a Loan Account</h1>

<h4>Please select a customer whos loan account you wish to view/amend </h4>

<h4>Choose a customer from the drop-down or search up their customerID </h4>

<h4>Alternatively you can search up a loan account using an accountID </h4>

<p class="subjectboxtext">

<form action="AmendViewLoanAccount.php" method="POST"> <!-- This Form relates to the searchbar, upon searching the page is refreshed and the main form is populated -->

<?php

// This block of PHP relates to the drop-down listbox

$sql = "SELECT customer.CustomerID, FirstName, LastName, Address, Eircode, DOB, Telephone, account.AccountID, Balance, Term, AmountRequested, MonthlyRepayments FROM customer INNER JOIN account ON customer.CustomerID=account.CustomerID INNER JOIN loanaccount ON account.AccountID=loanaccount.AccountID WHERE customer.DeletedFlag=0 AND AccountType='loan' AND account.DeletedFlag=0 ";

if (!$result=mysqli\_query($con, $sql))

{

die( 'Error in querying the database'.mysqli\_error($con));

}

echo "<select name='listbox' id='listbox' onclick='populate()'>"; // Listbox, upon clicking the main form is populated with the data of the selected customer

while ($row=mysqli\_fetch\_array($result)) // Loops through the array while there are results in the array

{

$CustomerID = $row['CustomerID']; // This block takes data from the rows in the database and assigns them to variables

$FirstName = $row['FirstName'];

$LastName = $row['LastName'];

$Address = $row['Address'];

$Eircode = $row['Eircode'];

$dateOfBirth = $row['DOB'];

$DOB = date\_create($row['DOB']);

$DOB = date\_format($DOB, "Y-m-d");

$Telephone = $row['Telephone'];

$AccountID = $row['AccountID'];

$Balance = $row['Balance'];

$Term = $row['Term'];

$LoanAmount = $row['AmountRequested'];

$MonthlyRepayments = $row['MonthlyRepayments'];

$allText = "$CustomerID, $FirstName, $LastName, $Address, $Eircode, $DOB, $Telephone, $AccountID, $Balance, $Term, $LoanAmount, $MonthlyRepayments";

echo "<option value = '$allText'>$FirstName $LastName</option>"; // This populates the listbox with options

}

echo "</select>";

?>

<input style="width: 100px; margin-left:30px;" type="text" name="search" placeholder="CustomerID..." > <!-- SearchBox -->

<button type="submit">Search</button> <!-- Search Button, populates main form upon clicking -->

</form>

<br>

<form action="AmendViewLoanAccount.php" method="POST"> <!-- This Form relates to the searchbar, upon searching the page is refreshed and the main form is populated -->

<input style="width: 100px; margin-left:145px;" type="text" name="searchAccount" placeholder="AccountID..." > <!-- SearchBox -->

<button type="submit">Search</button> <!-- Search Button, populates main form upon clicking -->

</form>

<?php

// This block of PHP relates to the Account ID search bar

$AccountID=null; // AccountID initialized to null

if(isset($\_POST['searchAccount']))

{

$AccountID=$\_POST['searchAccount'];

// This gets customer and account details

$sql = "SELECT customer.CustomerID, FirstName, LastName, Address, Eircode, DOB, Telephone, account.AccountID, Balance, Term, AmountRequested, MonthlyRepayments FROM customer INNER JOIN account ON customer.CustomerID=account.CustomerID INNER JOIN loanaccount ON account.AccountID=loanaccount.AccountID WHERE customer.DeletedFlag=0 AND account.AccountID='$AccountID' AND AccountType='loan' AND account.DeletedFlag=0";

if (!$result=mysqli\_query($con, $sql))

{

die( 'Error in querying the database'.mysqli\_error($con));

}

if (mysqli\_num\_rows($result) > 0)

{

$row = mysqli\_fetch\_assoc($result);

// Fetching values from the database

$CustomerID = $row['CustomerID'];

$FirstName = $row['FirstName'];

$LastName = $row['LastName'];

$Address = $row['Address'];

$Eircode = $row['Eircode'];

$DOB = date('Y-m-d', strtotime($row['DOB']));

$Telephone = $row['Telephone'];

$AccountID = $row['AccountID'];

$Balance = $row['Balance'];

$Term = $row['Term'];

$LoanAmount = $row['AmountRequested'];

$MonthlyRepayments = $row['MonthlyRepayments'];

}

else

{

// Handle case when no results are found

$CustomerID = $FirstName = $LastName = $Address = $Eircode = $DOB = $Telephone = $AccountID = $Balance = $Term = $LoanAmount = $MonthlyRepayments = "";

}

}

?>

<?php

// This block of PHP relates to the customer ID search bar

$customerID=null; // CustomerID initialized to null

if(isset($\_POST['search']))

{

$customerID=$\_POST['search'];

// This gets customer and account details

$sql = "SELECT customer.CustomerID, FirstName, LastName, Address, Eircode, DOB, Telephone, account.AccountID, Balance, Term, AmountRequested, MonthlyRepayments FROM customer INNER JOIN account ON customer.CustomerID=account.CustomerID INNER JOIN loanaccount ON account.AccountID=loanaccount.AccountID WHERE customer.DeletedFlag=0 AND customer.CustomerID='$customerID' AND AccountType='loan' AND account.DeletedFlag=0";

if (!$result=mysqli\_query($con, $sql))

{

die( 'Error in querying the database'.mysqli\_error($con));

}

if (mysqli\_num\_rows($result) > 0)

{

$row = mysqli\_fetch\_assoc($result);

// Fetching values from the database

$CustomerID = $row['CustomerID'];

$FirstName = $row['FirstName'];

$LastName = $row['LastName'];

$Address = $row['Address'];

$Eircode = $row['Eircode'];

$DOB = date('Y-m-d', strtotime($row['DOB']));

$Telephone = $row['Telephone'];

$AccountID = $row['AccountID'];

$Balance = $row['Balance'];

$Term = $row['Term'];

$LoanAmount = $row['AmountRequested'];

$MonthlyRepayments = $row['MonthlyRepayments'];

}

else

{

// Handle case when no results are found

$CustomerID = $FirstName = $LastName = $Address = $Eircode = $DOB = $Telephone = $AccountID = $Balance = $Term = $LoanAmount = $MonthlyRepayments = "";

}

}

?>

<?php

$sql = "SELECT InterestRate FROM rate WHERE RateID=3"; // Getting a hold of the annual loan account interest rate for loan calculations

if (!$result=mysqli\_query($con, $sql)) // Executes query

{

die( 'Error in querying the database'.mysqli\_error($con)); // Error checking

}

if (mysqli\_num\_rows($result) > 0) // If results found

{

$row = mysqli\_fetch\_assoc($result);

$InterestRate = $row['InterestRate'];

}

mysqli\_close($con); // Closes database connection

?>

<script> var InterestRate = <?php echo $InterestRate; // Assigns Interest rate to a variable in javascript ?>; </script>

<input class="myButton" type="button" value="Amend Details" id="amendViewbutton" onclick="toggleLock()"> <!-- Button for choosing to ammend details or view details -->

<p id="display">

<form id="myForm" action="AmendDetails.php" onload="lock()" onsubmit="return confirmCheck()" method="POST"> <!-- locks form onload, prompts user to confirm details and unlocks form to allow posting, moves to CheckCloseLoanAccount.php upon submission -->

<div class="inputbox">

<label>Customer ID : </label>

<input type="text" name="showID" id="showID" disabled value="<?php echo $CustomerID; ?>">

</div>

<div class="inputbox">

<label>First Name : </label>

<input type="text" name="showFirstName" id="showFirstName" disabled value="<?php echo $FirstName; ?>">

</div>

<div class="inputbox">

<label>LastName : </label>

<input type="text" name="showLastName" id="showLastName" disabled value="<?php echo $LastName; ?>">

</div>

<div class="inputbox">

<label>Address : </label>

<input type="text" name="showAddress" id="showAddress" disabled value="<?php echo $Address; ?>">

</div>

<div class="inputbox">

<label>Eircode : </label>

<input type="text" name="showEircode" id="showEircode" disabled value="<?php echo $Eircode; ?>">

</div>

<div class="inputbox">

<label>Date of Birth : </label>

<input type="date" name="showDOB" id="showDOB" disabled value="<?php echo $DOB; ?>">

</div>

<div class="inputbox">

<label>Telephone : </label>

<input type="text" name="showTelephone" id="showTelephone" disabled value="<?php echo $Telephone; ?>">

</div>

<div class="inputbox">

<label>Account ID : </label>

<input type="text" name="showAccountID" id="showAccountID" disabled value="<?php echo $AccountID; ?>">

</div>

<div class="inputbox">

<label>Balance : </label>

<input type="text" name="showBalance" id="showBalance" disabled value="<?php echo $Balance; ?>">

</div>

<div class="inputbox">

<label>Term : </label>

<input type="number" name="showTerm" id="showTerm" disabled value="<?php echo $Term; ?>">

</div>

<div class="inputbox">

<label>Loan Amount : </label>

<input type="number" name="showLoanAmount" id="showLoanAmount" disabled value="<?php echo $LoanAmount; ?>">

</div>

<div class="inputbox">

<label>Monthly Repayments : </label>

<input type="number" name="showMonthlyRepayments" id="showMonthlyRepayments" disabled value="<?php echo $MonthlyRepayments; ?>">

</div>

<input class="myButton" type="submit" value="Save Changes">

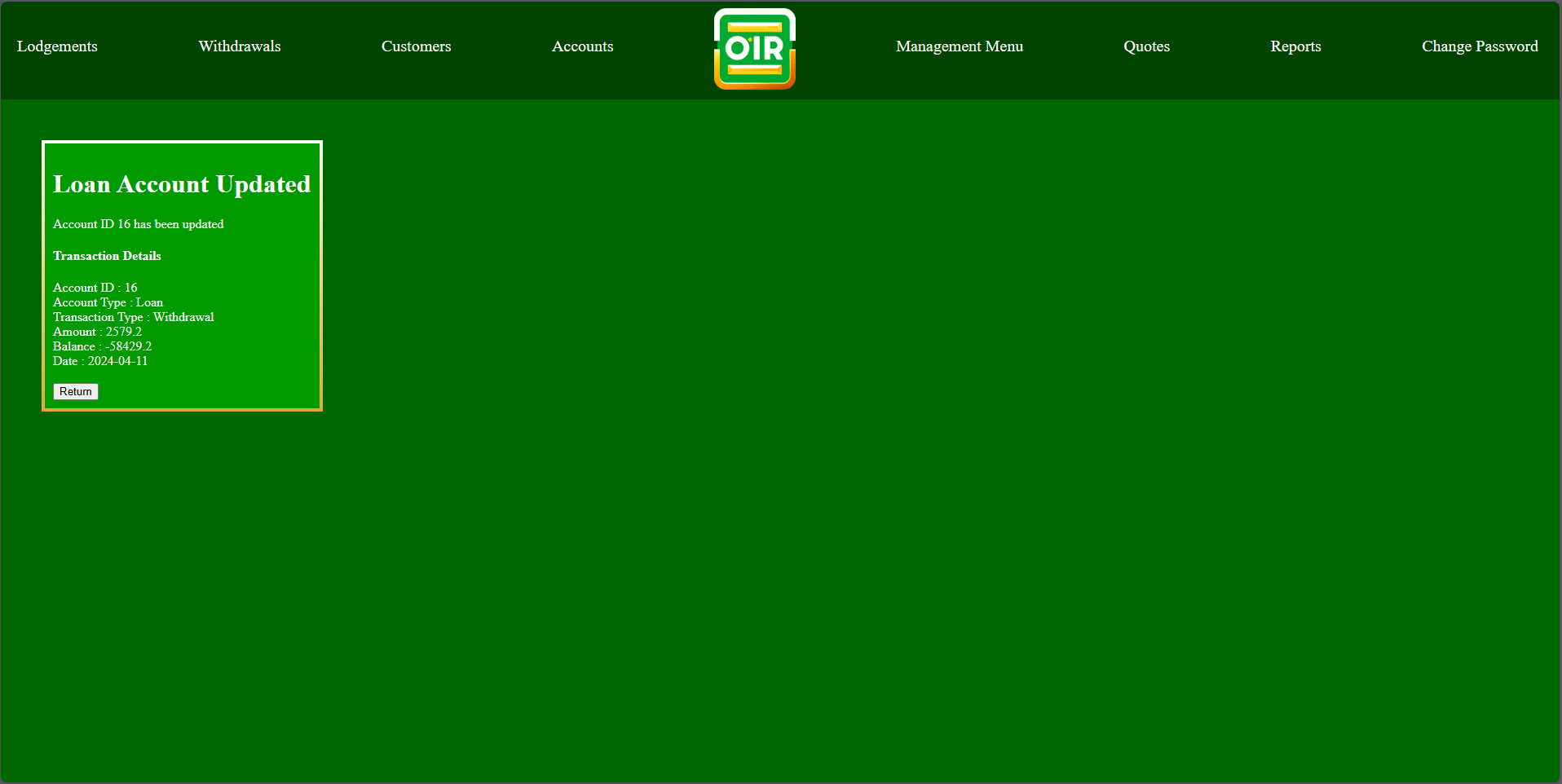
</form>

</div>

</body>

</html>

### AmendDetails.php



<?php

// Name : Diarmuid O'Neill

// Number : C00282898

// Description : Screen which updates loan account and prints a transaction to screen

// Date : March 2024

include "BankMenu.php"; // Includes the Bank Menu

?>

<script src="AmendViewLoanAccount.js"></script> <!-- Links to javascript file -->

<div class="subjectbox">

<h1>Loan Account Updated</h1>

<?php

include "bankConnect.inc.php"; // database connection

// Getting a hold of needed data

$term = $\_POST['showTerm'];

$loanAmount = $\_POST['showLoanAmount'];

$accountID = $\_POST['showAccountID'];

$monthlyRepayments = $\_POST['showMonthlyRepayments'];

$balance = ($monthlyRepayments\*$term)-(($monthlyRepayments\*$term)\*2); // Calculating new balance, this calculation ensures is negative and includes inerest payable

$oldBalance = $\_POST['showBalance'];

$TodayDate = date("Y-m-d");

// Amending the details of the loan account

$sql = "UPDATE loanaccount SET Term ='$term', AmountRequested = '$loanAmount', MonthlyRepayments = '$monthlyRepayments' WHERE AccountID = '$accountID'"; // prepares sql statement for updating loan account details

if(!mysqli\_query($con,$sql)) // executes sql statement

{

echo "Error ".mysqli\_error($con);

}

else

{

if (mysqli\_affected\_rows($con) != 0) // if the effected rows is not 0

{

echo "Account ID ". $\_POST['showAccountID'] . " has been updated"; // tells us what records have been updated

}

else

{

echo "No records were changed";

}

}

// Amending the Balance of the account

$sql = "UPDATE account SET Balance = '$balance' WHERE AccountID = '$accountID'"; // prepares sql statement for updating the balance (balance is stored in account not loanaccount)

if(!mysqli\_query($con,$sql)) // executes sql statement

{

echo "Error ".mysqli\_error($con);

}

else

{

if (mysqli\_affected\_rows($con) != 0) // if the effected rows is not 0

{

// Do nothing, success message already printed above

}

else

{

echo "Error updating balance";

}

}

// Creating a transaction record

if ($balance<$oldBalance) // Checks if the new entered loan amount is less than the old balance

{

$type="Withdrawal"; // If the new balance is less than the old balance we are dealing with a withdrawl

$transactionAmount=$oldBalance-$balance; // The amount on the transaction must be positive

}

else

{

$type="Deposit"; // If the balance is greater than the old balance we are dealing with a deposit

$transactionAmount=$balance-$oldBalance; // The amount on the transaction must be positive

}

$sql = "SELECT TransactionID FROM transaction WHERE TransactionID=(SELECT MAX(TransactionID) FROM transaction)"; // Getting the most recent TransactionID from the account table (from both active and inactive accounts)

if (!$result=mysqli\_query($con, $sql)) // Executes query

{

die( 'Error in querying the database'.mysqli\_error($con)); // Error checking

}

if (mysqli\_num\_rows($result) > 0) // If there are results found

{

$row = mysqli\_fetch\_assoc($result);

$transactionID = ($row['TransactionID']+1); // Gets accountID of next account to be created

}

else

{

$transactionID=1; // This is the case it is the first recorded transaction

}

$sql = "INSERT INTO transaction (TransactionID, AccountID, AccountType, Type, Amount, Date, Balance) VALUES ('$transactionID','$accountID','Loan','$type','$transactionAmount','$TodayDate','$balance')"; // SQL statement for creating a transaction record

if (!mysqli\_query($con, $sql))

{

die ("An error in the SQL Query : " . mysqli\_error($con) ); // Error checking

}

else

{

echo "<br><h4>Transaction Details</h4>"; // Provides a printout of the created transaction

echo "Account ID : " . $accountID;

echo "<br>Account Type : Loan";

echo "<br>Transaction Type : " . $type;

echo "<br>Amount : " . $transactionAmount;

echo "<br>Balance : " . $balance;

echo "<br>Date : " . $TodayDate;

}

mysqli\_close($con); // closes connection

?>

<form action="AmendViewLoanAccount.php" method="POST"> <!-- Returns to AmendView.html.php upon submission -->

<br>

<input type="submit" value="Return">

</form>

</div>

### AccountReportScreen.php



<?php

// Name : Diarmuid O'Neill

// Number : C00282898

// Description :

// Date : March 2024

include "BankMenu.php"; // Includes the Bank Menu

include "bankConnect.inc.php"; // database connection

$customerID = ""; // Initialize the variable

session\_start();

if(isset($\_POST['Return']))

{

session\_unset(); // Clears all session variables

}

?>

<script src="AccountReport.js"></script> <!-- Links to javascript file -->

<div class="subjectbox">

<h1>Generate Account Report</h1>

<h4>Please select a customer for whom you want to generate an account report for</h4>

<h4>Then select the account for which you want to generate the report for </h4>

<!-- This form allows the user to select a customer that has either a loan account or current account -->

<form id="listboxform" action="AccountReportScreen.php" method="POST">

<?php

// This block of PHP relates to the customer drop-down listbox

if (isset($\_POST['listbox'])) // Checks if a customer has been selected

{

$allText=$\_POST['listbox'];

$selectedCustomerID = explode(", ", $allText)[0]; // Extract the CustomerID

$selectedFirstName = explode(", ", $allText)[1]; // Extract the FirstName

$selectedLastName = explode(", ", $allText)[2]; // Extract the LastName

session\_unset(); // Resets session variables if a new customer is selected

$\_SESSION['customerID']=$selectedCustomerID;

$\_SESSION['firstName']=$selectedFirstName;

$\_SESSION['lastName']=$selectedLastName;

}

else if (isset($\_SESSION['customerID'])) // Ensures selected customer is displayed until a new one is selected

{

$selectedCustomerID = $\_SESSION['customerID'];

}

// Selects distinct customers with either a loan or current account. Distinct ensures customers are not displayed more than once

$sql = "SELECT DISTINCT customer.CustomerID, FirstName, LastName FROM customer INNER JOIN account ON customer.CustomerID=account.CustomerID WHERE customer.DeletedFlag=0 AND account.DeletedFlag=0 AND (AccountType='loan' OR AccountType='current')";

if (!$result = mysqli\_query($con, $sql))

{

die('Error in querying the database' . mysqli\_error($con));

}

echo "<select class='selectbox' name='listbox' id='listbox'>"; // Listbox

while ($row = mysqli\_fetch\_array($result))

{

$customerID = $row['CustomerID']; // This block takes data from the rows in the database and assigns them to variables

$firstName = $row['FirstName'];

$lastName = $row['LastName'];

$allText = "$customerID, $firstName, $lastName";

if ($customerID == $selectedCustomerID) // Check if this customer matches the selected customer

{

echo "<option value='$allText' selected>$firstName $lastName</option>"; // If a customer has been previously selected the 'selected' attribute is set

}

else

{

echo "<option value='$allText'>$firstName $lastName</option>";

}

}

?>

</select>

<input class="myButton" type="submit" value="Select Customer">

</form>

<br>

<!-- This form allows the user to select an account for which to view transactions (it only appears after a customer has been selected) -->

<form id="accountboxform" action="AccountReportScreen.php" method="POST"> <!-- It will refresh the screen upon submission and post variables -->

<?php

// This block of PHP relates to the account drop-down listbox

if (isset($\_SESSION['customerID'])) // Checks if a customer has been selected

{

if (isset($\_POST['accountbox'])) // Checks if an account has been selected

{

$accountDetails=$\_POST['accountbox'];

$selectedAccountID = explode(", ", $accountDetails)[0]; // Extract the AccountID

$selectedAccountType = explode(", ", $accountDetails)[1]; // Extract the AccountType

$\_SESSION['AccountID']=$selectedAccountID;

$\_SESSION['accountType']=$selectedAccountType;

}

else if (isset($\_SESSION['AccountID'])) // Ensures selected account is displayed until a new one is selected

{

$selectedAccountID = $\_SESSION['AccountID'];

}

// Gets any current or loan accounts relating to the selected customer

$sql = "SELECT AccountID, AccountType FROM account WHERE CustomerID='$selectedCustomerID' AND DeletedFlag=0 AND (AccountType='loan' OR AccountType='current')";

if (!$result=mysqli\_query($con, $sql))

{

die( 'Error in querying the database'.mysqli\_error($con));

}

echo "<select class='selectbox' name='accountbox' id='accountbox'>"; // Listbox

while ($row=mysqli\_fetch\_array($result)) // Loops through the array while there are results in the array

{

$accountID = $row['AccountID'];

$accountType = $row['AccountType'];

$accountDetails = "$accountID, $accountType";

if ($accountID == $selectedAccountID) // Check if this customer matches the selected customer

{

echo "<option value = '$accountDetails' selected>$accountType Account</option>"; // Set 'selected' attribute

}

else

{

echo "<option value = '$accountDetails'>$accountType Account</option>"; // This populates the listbox with options

}

}

echo "</select>

<input class='myButton' type='submit' value='Select Account'>";

}

?>

</form>

<br>

<!-- This form allows the user to select a start date and end date for viewing recent transactions -->

<form id="dateform" action="AccountReportScreen.php" method="POST"> <!-- This form relates to generating the report -->

<?php

if (isset($\_POST['report'])) // If a date for the report has been previously selected

{

// Retrieve the start and end dates

$startDate = $\_POST['startDate'];

$endDate =$\_POST['endDate'];

// Store the selected start and end dates in session variables

$\_SESSION['startDate'] = $startDate;

$\_SESSION['endDate'] = $endDate;

}

if(isset($\_SESSION['AccountID'])) // If an account has been selected

{

$startDate = null;

if (isset($\_SESSION['startDate'])) // If a start date has previously been selected

{

$startDate = $\_SESSION['startDate'];

}

$endDate = null;

if (isset($\_SESSION['endDate'])) // If an end date has been previously selected

{

$endDate = $\_SESSION['endDate'];

}

// Echos out the date picker, if a date has previously selected it wil already display in the date picker

echo "<label for='startDate'>Start Date : </label>

<input type='date' id='startDate' name='startDate' value='$startDate'>

<br> <br>

<label for='endDate'>End Date : </label>

<input type='date' id='endDate' name='endDate' value='$endDate'>

<br> <br>

<button class='myButton' type='submit' name='report'>Generate Report</button>";

}

?>

</form>

<br>

<?php

// Php function that executes sql statement and processes results for report

function generateReport($con,$sql)

{

$result = mysqli\_query($con,$sql);

echo "<table>

<tr><th>Date</th><th>Transaction Type</th><th>Amount</th><th>Balance</th></tr>";

while ($row=mysqli\_fetch\_array($result))

{

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

<td>".$row['Type']."</td>

<td>".$row['Amount']."</td>

<td>".$row['Balance']."</td>

</tr>";

}

echo "</table>";

}

?>

<br>

<form id="Return" action="AccountReportScreen.php" method="POST">

<input class="myButton" type="submit" name="Return" value="Return"> <!-- Return button which allows user to return to start of report screen -->

<form>

</div>

<?php

if (isset($\_POST['report'])) // If a date has been set

{

echo "<div class='subjectbox' id='transactionResults'>";

$accountID=$\_SESSION['AccountID']; // Get all needed data for report from session variables

$startDate=$\_SESSION['startDate'];

$endDate=$\_SESSION['endDate'];

$firstName=$\_SESSION['firstName'];

$lastName=$\_SESSION['lastName'];

$accountType=$\_SESSION['accountType'];

echo "<h2 style='text-decoration : underline;'>" . $accountType . " Account Report</h2>";

echo "<h4>AccountID : " . $accountID . " &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; Customer Name : " . $firstName . " " . $lastName . "</h4>";

if ($startDate!='' && $endDate!='') // If start date and end date have been set get the transactions between those dates

{

$sql = "SELECT transaction.Date, Type, Amount, transaction.Balance FROM transaction INNER JOIN account ON account.AccountID=transaction.AccountID WHERE transaction.AccountID='$accountID' AND (transaction.Date>='$startDate' AND transaction.Date<='$endDate')";

}

else // If start date and end date have not been set get the transactions from the last six months

{

$endDate=date('Y-m-d'); // end date is set to today

$startDate=date('Y-m-d', strtotime('-6 months')); // start date is set to six months back from today

$sql = "SELECT transaction.Date, Type, Amount, transaction.Balance FROM transaction INNER JOIN account ON account.AccountID=transaction.AccountID WHERE transaction.AccountID='$accountID' AND (transaction.Date>='$startDate' AND transaction.Date<='$endDate')";

}

generateReport($con,$sql); // Generate report

echo "</div>";

}

?>

## 

## **Isaiah Andres:**

### AddCustomer.php

## 

<!--

Name Of Screen: AddCustomer.php

Purpose Of Screen: Form that allows for the user to enter customer details to be added to the database

Student Name: Isaiah Andres

Student Number: C00286361

Date:25/02/2024 -->

<!--Form submission box for the user to enter in the customer's details-->

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="/MainWebsiteCode/MainStyling.css">

<script type="text/javascript" src="AddCustomerFunctions.js" ></script>

<title>Add A Customer</title>

</head>

<body>

<?

php include '/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php';

?>

<div class="submissionBox">

<fieldset class = "fieldsetCustomer

<form action="AddCustomerConfirm.php" method="post">

<!--Posting the information to AddCustomerConfirm.php →

<legend><h1>Customer Information Form</h1></legend>

<br>

<div class="fname">

<label for="name">Customer First Name:</label> <!-- Input box for the first name-->

<input type="text" name="fname" id="fnameID" required autofocus/>

</div>

<br>

<div class="lname">

<label for="name">Customer Surname:</label> <!-- Input box for the last name-->

<input type="text" name="lname" id="lnameID" required autofocus/>

</div>

<br>

<div class="address">

<label for="address">Customer Address:</label>

<input type="text" name="address" id="addressID" required autofocus /> <!-- input box for the address-->

</div>

<br>

<div class="eircode">

<label for="eircode">Customer Eircode:</label>

<input type="text" name="eircode" id="eircodeID" required placeholder="A12 BC34" pattern="[A-Z0-9]{3} [A-Z0-9]{4}" autofocus/> <!--Text box for customer's eircode-->

</div>

<br>

<div class="DOB">

<label for="dateOfBirth">Date Of Birth:</label>

<input type="date" name="dob" id="dobID" required autofocus oninput="checkAge()"/>

<!--Using type date rather than numbers shows a calendar in which dates can be chosen from -->

</div>

<br>

<div class="phoneNo">

<label for="phoneNo">Customer Phone Number:</label>

<input type="tel" name="phoneNo" id="phoneNoID" placeholder="123 123 1234" pattern="[0-9\- \(\) +]{7,}" required autofocus/> <!-- input type tel allows a user to input a telephone number within the required pattern,-->

</div>

<br>

<div class="occupation">

<label for="occupation">Customer Occupation:</label>

<input type="text" name="occupation" id="occupationID" required autofocus/> <!-- input type tel allows a user to input a telephone number within the required pattern-->

</div>

<br>

<div class="salary">

<label for="salary">Customer Salary:</label>

<input type="number" name="salary" id="salaryID" min="0" step=".01" autofocus/> <!--Using this rather than numbers shows a calendar in which dates can chosen from -->

</div>

<br>

<div class="email">

<label for="email">Customer Email:</label>

<input type="email" name="email" id="emailID" required autofocus/> <!--Using this rather than numbers shows a calendar in which dates can chosen from -->

</div>

<br>

<div class="guarantor">

<label for="guarantor">Guarantor's Name:</label>

<input type="text" name="gname" id="guarantorID" autofocus/> <!--Using this rather than numbers shows a calendar in which dates can chosen from -->

</div>

<br>

<div class="myButton">

<input type="submit" value="Send Form" name="submit" onclick="confirmChoices()"/><br><br> <!-- Submit Button-->

<input type="reset" value="Clear Form" name="reset"/> <!-- Reset Button-->

</div>

</fieldset>

</div>

</form>

</div>

</body>

</html>

### AddCustomerConfirm.php

## 

## 

## 

<!--

Name Of Screen: AddCustomerConfirm

Purpose Of Screen: PHP code that adds the posted customer details to the database

Student Name: Isaiah Andres

Student Number: C00286361

Date:25/02/2024 -->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="/MainWebsiteCode/MainStyling.css">

<title>Add A Customer</title>

</head>

<?php include '/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php'; ?>

<div class="subjectbox">

<?php //Placing the php code in the div for the subjectbox stylises the php results in the same way as the rest of the website

include '../bankConnect.inc.php'; //Uses the php file that starts a new conncetion to the database

date\_default\_timezone\_set("UTC"); //Sets default timezone to utc

echo "The details submitted are: <br>";

echo "First Name :" . $\_POST['fname'] . "<br>"; //Displays the information from the html file

echo "Last Name :" . $\_POST['lname'] . "<br>"; //Displays the information from the html file

echo "Address :" . $\_POST['address'] . "<br>";

echo "Eircode :" . $\_POST['eircode'] . "<br>";

$date=date\_create($\_POST['dob']); //Date object is created

echo "Date of Birth is :" . date\_format($date,"d/m/Y") . "<br>";

echo "Phone Number :" . $\_POST['phoneNo'] . "<br>";

echo "Occupation :" . $\_POST['occupation'] . "<br>";

echo "Salary :" . $\_POST['salary'] . "<br>";

echo "Email :" . $\_POST['email'] . "<br>";

echo "Guarantor :" . $\_POST['gname'] . "<br>";

//mysql query that allows the user to insert the values from the html form to the database fields using POST

$sqlMax = "SELECT MAX(CustomerId) AS maxID FROM customer";

$result = mysqli\_query($con,$sqlMax); //mysql query that selects the highest value from the customer ID from the customer, calling it maxid allows for it to be entered to the row array as an index and to get the result

$row = mysqli\_fetch\_assoc($result); //Fetches the result row as an associative array or as a numerical array

$maxID = $row['maxID']; //Assigning the row with maxID as its index to the variable $maxID

$maxID++; //Increments the maxID to represent the next ID which is to be auto-incremented

echo "<br>A record has been added for " . $\_POST['fname']; //Displays the information for the corresponding database details

echo "<br>The customer ID is " . $maxID; //Message that shows the newly added customer's ID

$sql = "Insert into customer (CustomerID,FirstName,LastName,Address,Eircode,DOB,Telephone,Occupation,Salary,Email,GuarantorName) VALUES

($maxID,'$\_POST[fname]','$\_POST[lname]','$\_POST[address]','$\_POST[eircode]','$\_POST[dob]','$\_POST[phoneNo]','$\_POST[occupation]','$\_POST[salary]','$\_POST[email]','$\_POST[gname]')"; //Updated input which now allows for the email and phone number from the html file to be entered

if (!mysqli\_query($con,$sql)) //Statement that appears if there is an error with the query

{

die ("An Error in the SQL Query: " . mysqli\_error($con) );

}

mysqli\_close($con);

?>

<form action = "AddCustomer.php" method = "POST" > <!--Information taken from screen1.html -->

<br>

<input type = "submit" value = "Return to Insert Page"/> <!--Brings user back to the insert page-->

</body>

</html>

</div>

### CustomerDeletion.php

## 

## 

## 

<!--

Name Of Screen: CustomerDeletion.php

Purpose Of Screen: Form that displays customer details chosen from a given listbox or searchbar as well as a button to delete the chosen customer.

Student Name: Isaiah Andres

Student Number: C00286361

Date:10/03/2024 -->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="/MainWebsiteCode/MainStyling.css">

<script type="text/javascript" src="DeletionFunctions.js" ></script>

<title>Delete A Customer</title>

</head>

<body>

<?php include '/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php'; ?>

<div class="deletionBox">

<br>

<fieldset class = "fieldsetCustomer"> <!--Form for the user to see customer details if they choose an option from the listbox. Placement is so that the listbox generated by the following -->

<Form action = "CustomerDeletion.php" method = "POST" name = "searchCustomer" >

<legend><h1>Delete A Customer</h1></legend> <!--Text that displays at the top of the form-->

<?php include 'customerSearchListbox.php'; ?>

<!--Placement allows for the customerSearchListbox to take in the posted information -->

<label for="name">Customer Name:</label>

<!--Disabled input box in which the customer ID will be displayed-->

<input type="text" name="custNameID" id="custNameID"/>

<div class="submitButton"> <!--Div class for the submit button →

<input type="submit" value="Search" name="search" id="search"/><br>

<!--Submit button input. Value sets the text within the button and runs the javascript function confirmDeletion upon clicking the submit button -->

</div>

</form>

<?php include 'customerListbox.php'; ?> <!--Customer listbox file -->

<br><br>

<form action = "confirmDeletion.php" method = "POST" name = "deletionForm" >

<!--Start of the form that displays chosen customer details and submits the information to the confirmDeletion file in which the MySQL statement to set the DeletedFlag to true takes place-->

<div class="customerID"> <!--Div class for the customer's ID label and input box -->

<label for="name">Customer ID:</label> <!--Disabled input box in which the customer ID will be displayed-->

<input type="text" name="custID" id="custID" disabled/>

</div>

<div class="fname"> <!--Div class for the customer's first name label and input box -->

<label for="name">Customer First Name:</label> <!--Disabled input box in which the customer first name will be displayed-->

<input type="text" name="fnameID" id="fnameID" disabled/>

</div>

<br>

<div class="lname"> <!--Div class for the customer's surname label and input box -->

<label for="name">Customer Surname:</label> <!--Disabled input box in which the customer surname will be displayed-->

<input type="text" name="lnameID" id="lnameID" disabled/>

</div>

<br>

<div class="address">

<label for="address">Customer Address:</label> <!--Div class for the customer's address label and input box -->

<input type="text" name="addressID" id="addressID" disabled /> <!--Disabled input box in which the customer address will be displayed-->

</div>

<br>

<div class="eircode">

<label for="eircode">Customer Eircode:</label> <!--Div class for the customer's eircode label and input box -->

<input type="text" name="eircodeID" id="eircodeID" disabled/> <!--Disabled input box in which the customer eircode will be displayed-->

</div>

<br>

<div class="DOB">

<label for="dateOfBirth">Date Of Birth:</label> <!--Div class for the customer's date of birth label and input box -->

<input type="date" name="dobID" id="dobID" disabled/> <!--Disabled input box in which the customer's date of birth will be displayed-->

</div>

<br>

<div class="phoneNo">

<label for="phoneNo">Customer Phone Number:</label> <!--Div class for the customer's phone number label and input box -->

<input type="tel" name="phoneNoID" id="phoneNoID" pattern="[0-9\- \(\) +]{7,}" disabled/> <!--Disabled input box in which the customer phone number will be displayed-->

</div>

<br>

<div class="occupation">

<label for="occupation">Customer Occupation:</label> <!--Div class for the customer's occupation label and input box -->

<input type="text" name="occupationID" id="occupationID"disabled/> <!--Disabled input box in which the customer occupation will be displayed-->

</div>

<br>

<div class="salary">

<label for="salary">Customer Salary:</label>

<!--Div class for the customer's salary label and input box -->

<input type="number" name="salaryID" id="salaryID" min="0" step="0.1" disabled/> <!--Disabled input box in which the customer salary will be displayed-->

</div>

<br>

<div class="email">

<label for="email">Customer Email:</label>

<!--Div class for the customer's email label and input box -->

<input type="email" name="emailID" id="emailID" disabled/> <!--Disabled input box in which the customer email will be displayed-->

</div>

<br>

<div class="guarantor">

<label for="guarantor">Guarantor's Name:</label> <!--Div class for the customer's guarantor name label and input box -->

<input type="text" name="gnameID" id="guarantorID" disabled/> <!--Disabled input box in which the customer's guarantor name will be displayed-->

</div>

<br>

<div class="submitButton"> <!--Div class for the submit button -->

<input type="submit" value="Delete Customer" name="delete" onclick = "confirmDeletion()"/><br><br> <!--Submit button input. Value sets the text within the button and runs the javascript function confirmDeletion upon clicking the submit button -->

</div>

</fieldset>

</div>

</form>

</div>

</body>

</html>

### confirmDeletion.php

### 

## 

<!--

Name Of Screen: AmendView.php

Purpose Of Screen: File in which the code to handle the editing of the custoemr details takes place

Student Name: Isaiah Andres

Student Number: C00286361

Date:10/03/2024 -->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="/MainWebsiteCode/MainStyling.css">

<title>Delete A Customer</title>

</head>

<body>

<?php include '/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php'; ?>

<div class="subjectbox"> <!--Applies css styling by putting the following php code in a div class that is to be stylised -->

<?php

include "bankConnect.inc.php"; //Including the file to connect to the database

date\_default\_timezone\_set('UTC'); //Setting the default timezone to UTC

$ID = $\_POST['custID']; //The customer ID is taken from the deletion form and is assigned to the variable $ID

$firstName = $\_POST['fnameID']; //The customer first name is taken from the deletion form and is assigned to the variable $ID

$lastName = $\_POST['lnameID']; //The customer last name is taken from the deletion form and is assigned to the variable $ID

if($ID == null)

{

echo "No customer has been selected";

}

else

{

$sql = " SELECT \* FROM customer INNER JOIN account ON

customer.CustomerID = account.CustomerID

WHERE customer.customerID = $ID "; //Doing an inner join between the customer ID from the customer table and the customer ID from the account table shows if the customer has an account

if($result = mysqli\_query($con,$sql)) //MySQL query is executed here

{

$rowcount = mysqli\_num\_rows($result); //mysqli\_num\_rows shows the number of rows that are selected from the sql query W3Schools

}

if($rowcount == 0) //If the rowcount is 0, this implies that the customer has no account and is free to delete

{

$updateSQL = "UPDATE customer SET DeletedFlag = 1 WHERE customerID = $ID"; //MySQL query to set the DeletedFlag to 1

$update = mysqli\_query($con,$updateSQL); //MySQL query takes place

if(!$update) //If there is no query that took place, then this message is shown

{

echo("There has been an issue with the query");

}

else //If there is no issues then this message is shown

{

echo("The customer " . $firstName . " " . $lastName . " has been deleted");

}

}

else //If the rowcount is not 0 then this implies that the customer has an account and therefore can't be deleted

{

echo("The customer ". $firstName . " " . $lastName . " can't be deleted as they have an account.");

}

}

?>

<form action = "CustomerDeletion.php" method = "POST" > <!--Posting the information to the deletion form from the current form with no current information will direct the user back to the deletion page -->

<br>

<input type = "submit" value = "Return to Deletion Page"/> <!--Brings user back to the deletion page-->

</form>

</div>

### AmendViewCustomer.php

## 

## 

## 

## 

## 

<!--

Name Of Screen: AmendViewCustomer.php

Purpose Of Screen: Form that displays customer details chosen from a given listbox and allows to edit customer details-->

<!--Student Name: Isaiah Andres

Student Number: C00286361

Date:21/03/2024 -->

<!--Form for the user to see customer details if they choose an option from the listbox-->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="/MainWebsiteCode/MainStyling.css">

<script type="text/javascript" src="AmendFunctions.js" ></script>

<title>AmendView A Customer</title>

</head>

<body>

<?php include '/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php'; ?>

<div class="amendBox"> <!--Div class for the amend/view form -->

<fieldset class = "fieldsetCustomer"> <!--Fieldset for grouping together form inputs -->

<form action = "AmendView.php" method = "POST" name = "amendForm"> <!--Start of the form that displays chosen customer details and submits the information to the AmendView file in which the MySQL statement to edit certain details takes place-->

<legend><h1>Amend/View A Customer</h1></legend> <!--Text that displays at the top of the form-->

<br>

Choose a customer from the listbox to amend or view their details

<br>

<?php include 'customerListbox.php'; ?> <!--Customer listbox file -->

<br>

<br>

<input type = "button" value = "Amend Details" id = "amendViewbutton" onclick = "toggleLock()"> <!--Calls the function toggleLock() upon clicking the button -->

<br>

<div class="customerID"> <!--Div class for the customer's ID label and input box -->

<label for="name">Customer ID:</label> <!--Disabled input box in which the customer ID will be displayed-->

<input type="text" name="custID" id="custID" disabled required/>

</div>

<div class="fname"> <!--Div class for the customer's first name label and input box -->

<label for="name">Customer First Name:</label> <!--Disabled input box in which the customer first name will be displayed→

<input type="text" name="fnameID" id="fnameID" disabled required/>

</div>

<br>

<div class="lname"> <!--Div class for the customer's surname label and input box -->

<label for="name">Customer Surname:</label> <!--Disabled input box in which the customer surname will be displayed-->

<input type="text" name="lnameID" id="lnameID" disabled required/>

</div>

<br>

<div class="address"><!--Div class for the customer's address label and input box -->

<label for="address">Customer Address:</label>

<input type="text" name="addressID" id="addressID" disabled required/> <!--Disabled input box in which the customer address will be displayed-->

</div>

<br>

<div class="eircode"> <!--Div class for the customer's eircode label and input box -->

<label for="eircode">Customer Eircode:</label> <!--Disabled input box in which the customer eircode will be displayed→

<input type="text" name="eircodeID" id="eircodeID" disabled required/>

</div>

<br>

<div class="DOB"> <!--Div class for the customer's date of birth label and input box -->

<label for="dateOfBirth">Date Of Birth:</label> <!--Disabled input box in which the customer's date of birth will be displayed-->

<input type="date" name="dobID" id="dobID" disabled required oninput = "checkAge()"/> <!--Using type date rather than numbers shows a calendar in which dates can be chosen from →

</div>

<br>

<div class="phoneNo"> <!--Div class for the customer's phone number label and input box -->

<label for="phoneNo">Customer Phone Number:</label> <!--Disabled input box in which the customer phone number will be displayed-->

<input type="tel" name="phoneNoID" id="phoneNoID" pattern="[0-9\- \(\) +]{7,}" disabled required/> <!-- input type tel allows a user to input a telephone number within the required pattern, pattern shou-->

</div>

<br>

<div class="occupation">

<label for="occupation">Customer Occupation:</label> <!--Div class for the customer's occupation label and input box -->

<input type="text" name="occupationID" id="occupationID"disabled required/> <!--Disabled input box in which the customer occupation will be displayed→

</div>

<br>

<div class="salary">

<label for="salary">Customer Salary:</label>

<!--Div class for the customer's salary label and input box -->

<input type="number" name="salaryID" id="salaryID" min="0" step="0.1" disabled required/> <!--Disabled input box in which the customer salary will be displayed-->

</div>

<br>

<div class="email">

<label for="email">Customer Email:</label>

<!--Div class for the customer's email label and input box -->

<input type="email" name="emailID" id="emailID" disabled required/> <!--Using this rather than numbers shows a calendar in which dates can chosen from -->

</div>

<br>

<div class="guarantor">

<label for="guarantor">Guarantor's Name:</label> <!--Div class for the customer's guarantor name label and input box -->

<input type="text" name="gnameID" id="guarantorID" disabled /> <!--Disabled input box in which the customer's guarantor name will be displayed-->

</div>

<br>

<div class="myButton"> <!--Div class for the submit button -->

<input type="submit" value="Save Changes" name="saveChange" onclick = confirmCheck() /><br><br> <!--Submit button input. Value sets the text within the button and runs the javascript function confirmDeletion upon clicking the submit button -->

</div>

</fieldset>

</div>

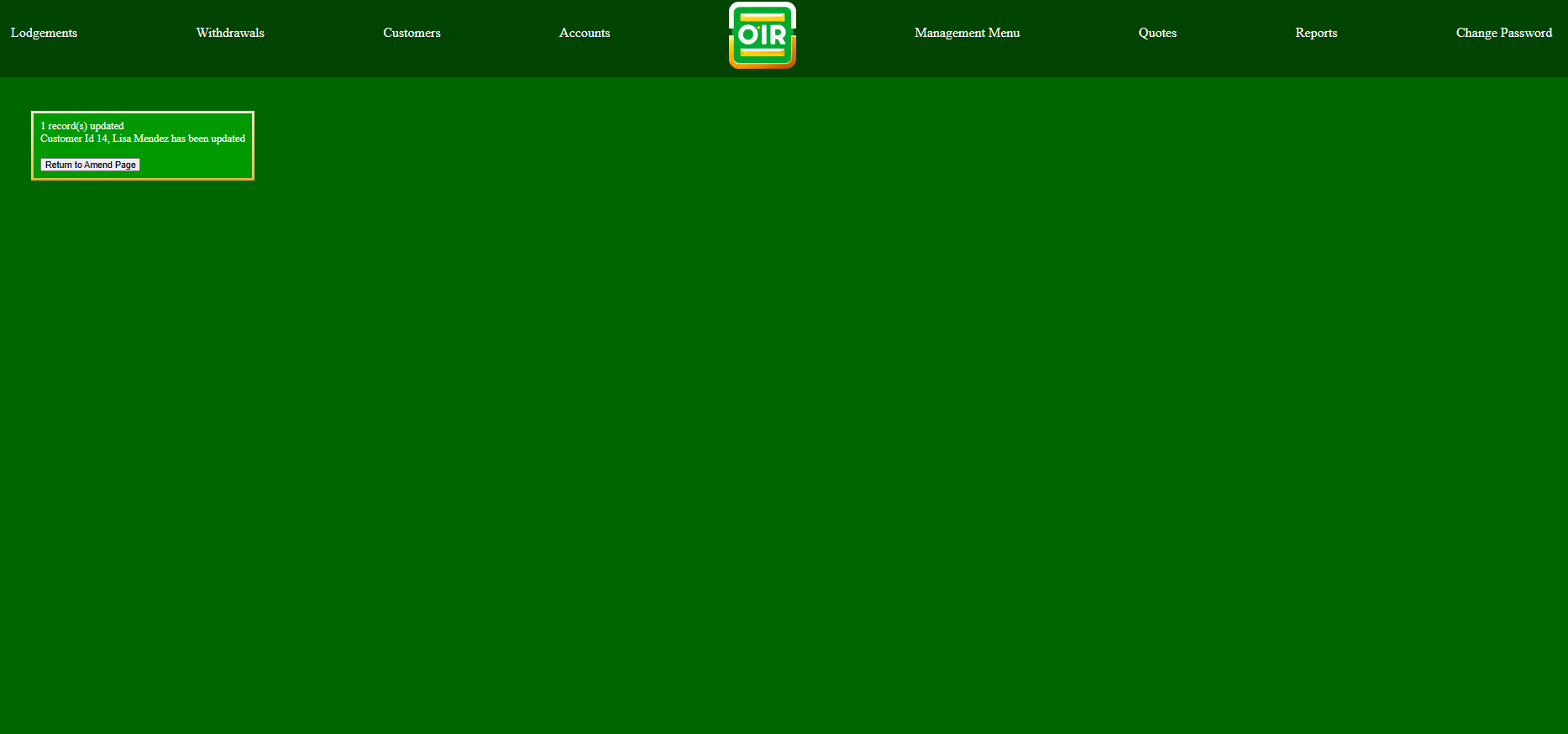
</form>

</div>

</body>

</html>

### AmendView.php



<!--

Name Of Screen: AmendView.php

Purpose Of Screen: File in which the code to handle the editing of the customer details takes place

Student Name: Isaiah Andres

Student Number: C00286361

Date:21/03/2024 -->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="/MainWebsiteCode/MainStyling.css">

<title>AmendView A Customer</title>

</head>

<body>

<?php include '/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php'; ?>

<div class = "subjectbox" > <!--Div placed here so that the following php code will be affected by it's properties -->

<?php include '../bankConnect.inc.php'; ?>

<?php

date\_default\_timezone\_set('UTC');

$dbDate = date("Y-m-d", strtotime($\_POST['dobID'])); //to match date format in database

$sql = "UPDATE customer SET FirstName = '$\_POST[fnameID]', LastName = '$\_POST[lnameID]', Address = '$\_POST[addressID]', Eircode = '$\_POST[eircodeID]', DOB = '$\_POST[dobID]',

Telephone = '$\_POST[phoneNoID]', Occupation = '$\_POST[occupationID]', Salary = '$\_POST[salaryID]', Email = '$\_POST[emailID]', GuarantorName = '$\_POST[gnameID]'

WHERE CustomerID = '$\_POST[custID]'"; //MySQL query to update the values based on the form inputs

if (!mysqli\_query($con, $sql))

{

echo "Error ".mysqli\_error($con); // Shows error if there is a problem with the MySQL statement or connection

}

else

{

if (mysqli\_affected\_rows($con) != 0)

{

echo mysqli\_affected\_rows($con)." record(s) updated <br>"; //Shows how many records have been affected using mysqli\_affected\_rows

echo "Customer Id " . $\_POST['custID'].", ".$\_POST['fnameID'] . " " . $\_POST['lnameID'] //Shows the record which has been updated using the Customer id and name

." ". "has been updated";

}

else

{

echo "No records were changed"; //If the number of affected rows is zero, this message is shown

}

}

?>

<form action = "AmendViewCustomer.php" method = "POST" > <!--Button that returns to the deletion page -->

<br>

<input type = "submit" value = "Return to Amend Page"/> <!--Brings user back to the deletion page-->

</form>

</div>

</div>

## 

## 

## 

## 

## 

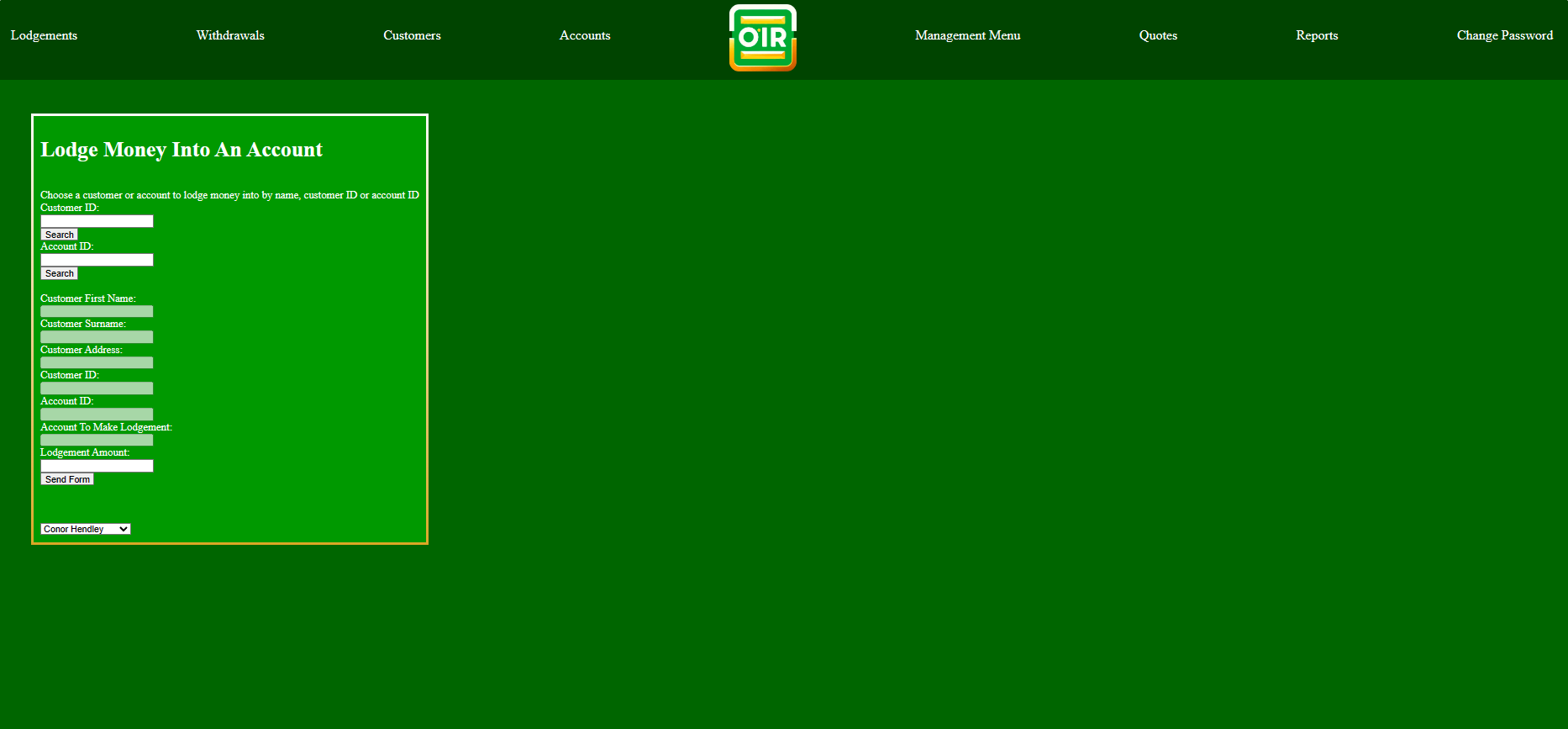
## 

## 

## 

## 

### CustomerLodgement.php



<!--

Name Of Screen: CustomerLodgement

Purpose Of Screen: Provides form to show customer and account information and to choose which customer's account to lodge money into

Student Name: Isaiah Andres

Student Number: C00286361

Date:31/03/2024 -->

<!--Form for the user to see customer details if they choose an option from the listbox-->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="/MainWebsiteCode/MainStyling.css">

<script type="text/javascript" src="LodgementScreenFunctions.js" ></script>

<title>Make A Lodgement</title>

</head>

<body>

<?php include '/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php'; ?>

<fieldset class = "fieldsetCustomer">

<?php include "bankConnect.inc.php";

$input = 1; //Initialising variables as they would show errors in the input boxes otherwise

$fname = null;

$lname = null;

$address = null;

$custID = null;

$accID = null;

$balance = null;

$accType = null;

$customerRowcount = 1;

$accountRowcount = 1;

//----- Customer SearchBar -----//

if(ISSET($\_POST['searchCustomer'])) //Checks if the search customer submit button has been clicked on

{

$input = $\_POST['customerID'];

if($input == null) //Checking if an ID sent and the following message will appear

{

echo "No customer ID was searched for";

}

else

{

$sql = "SELECT FirstName, LastName, Address, customer.CustomerID, AccountID, Balance FROM customer

INNER JOIN account ON customer.CustomerID = account.CustomerID

WHERE customer.DeletedFlag = 0 AND customer.CustomerID = $input"; //MySQL query to select the customer details according to the ID

if (!$result = mysqli\_query($con,$sql))

{

die( 'Error in querying the database' . mysqli\_error($con)); //Message that is displayed if there is an error with the query

}

while ($row = mysqli\_fetch\_array($result)) //fetches the results of the MySQL query as an associative array and assigns them to variables

{

$fname = $row['FirstName'];

$lname = $row['LastName'];

$address = $row['Address'];

$custID = $row['CustomerID'];

$accID = $row['AccountID'];

$balance = $row['Balance'];

}

$customerRowcount =mysqli\_num\_rows($result); //Assigning the number of rows returned to a variable

}

//Code for showing the details of the current account using the CustomerID search function

$sqlCustomerCurrentAccountCheck = " SELECT OverdraftLimit, Balance FROM currentaccount INNER JOIN account ON account.AccountID = currentaccount.AccountID

INNER JOIN customer ON customer.CustomerID = account.CustomerID WHERE customer.CustomerID = $input AND AccountType = 'current'"; //MySQL Query to select the overdraft limit and balance through the use of an inner join between the account and currentaccount table

if (!$customerCurrentAccountResult = mysqli\_query($con,$sqlCustomerCurrentAccountCheck)) //Statement executed here

{

die( 'Error in querying the database' . mysqli\_error($con)); //Message that is displayed if there is an error with the query

}

if(!$customerCurrentAccountRow = mysqli\_fetch\_array($customerCurrentAccountResult))

{

echo "<div class = currentAccountDetails>";

echo "<br><span class = 'accountDetailText'>The Customer Does Not Have a Current Account</span><br>"; //Message that appears if no array was returned implying that the customer doesn't have a current account

echo "</div>";

}

else

{

$sqlCurrentAccountID = "SELECT AccountID FROM account WHERE CustomerID = '$custID' AND AccountType = 'current'"; //MySQL query to retrieve the current account ID

if (!$resultCurrentID = mysqli\_query($con,$sqlCurrentAccountID))

{

die( 'Error in querying the database' . mysqli\_error($con)); //Message that is displayed if there is an error with the query

}

$currentAccountIDRow = mysqli\_fetch\_array($resultCurrentID);

echo "<div class = currentAccountDetails>";

echo "<span class = 'accountDetailText'>Overdraft Limit for Current Account:</span> " . $customerCurrentAccountRow[0]; //Displaying the current account details taken from the first sql statement

echo "<br><span class = 'accountDetailText'>Balance For Current Account:</span> " . $customerCurrentAccountRow[1];

echo "<br><br><button value='$currentAccountIDRow[AccountID]' id='lodgeCurrentButton' name = 'cAccountButton' onclick='chooseCurrent()'>Lodge To Current Account</button><br>"; //Button with the current account ID as its value to use with the javascript function

echo "</div>";

}

$sqlCustomerDepositAccountCheck = " SELECT AmountRequested, Balance FROM depositaccount

INNER JOIN account ON account.AccountID = depositaccount.AccountID INNER JOIN customer ON customer.CustomerID = account.CustomerID WHERE customer.CustomerID = $input AND AccountType = 'Deposit'"; //MySQL Query to select the Amount Requested and balance through the use of an inner join between the account and depositaccount table

if (!$customerDepositAccountResult = mysqli\_query($con,$sqlCustomerDepositAccountCheck))

{

die( 'Error in querying the database' . mysqli\_error($con)); //Message that is displayed if there is an error with the query

}

if(!$customerDepositAccountRow = mysqli\_fetch\_array($customerDepositAccountResult))

{

echo "<div class = depositAccountDetails>";

echo "<br><span class = 'accountDetailText'>The Customer Does Not Have a Deposit Account</span><br>" ; //Message that appears if no array was returned implying that the customer doesn't have a deposit account

echo "</div>";

}

else

{

$sqlDepositAccountID = "SELECT AccountID FROM account WHERE CustomerID = '$custID' AND AccountType = 'Deposit'"; //MySQL query to retrieve the Deposit account ID

if (!$resultDepositID = mysqli\_query($con,$sqlDepositAccountID))

{

die( 'Error in querying the database' . mysqli\_error($con)); //Message that is displayed if there is an error with the query

}

$depositAccountIDRow = mysqli\_fetch\_array($resultDepositID); //Message that appears if no array was returned implying that the customer doesn't have a deposit account

echo "<div class = depositAccountDetails>";

echo "<span class = 'accountDetailText'>Amount Requested for Deposit Account:</span> " . $customerDepositAccountRow[0]; //Displaying the deposit account details taken from the first sql statement

echo "<br><span class = 'accountDetailText'>Balance for Deposit Account:</span> " . $customerDepositAccountRow[1];

echo "<br><br><button value='$depositAccountIDRow[AccountID]' id='lodgeDepositButton' onclick='chooseDeposit()'>Lodge To Deposit Account</button><br>"; //Button with the deposit account ID as its value to use with the javascript function

echo "</div>";

}

$sqlCustomerLoanAccountCheck = " SELECT AmountRequested, Term, MonthlyRepayments, Balance FROM loanaccount

INNER JOIN account ON account.AccountID = loanaccount.AccountID INNER JOIN customer ON customer.CustomerID = account.CustomerID WHERE customer.CustomerID = $input AND AccountType = 'Loan'"; //MySQL Query to select the Amount Requested and Term and Monthly Repayments and Balance through the use of an inner join between the account and loanaccount table

if (!$customerLoanAccountResult = mysqli\_query($con,$sqlCustomerLoanAccountCheck))

{

die( 'Error in querying the database' . mysqli\_error($con)); //Message that is displayed if there is an error with the query

}

if(!$customerLoanAccountRow = mysqli\_fetch\_array($customerLoanAccountResult))

{

echo "<div class = loanAccountDetails>";

echo "<span class = 'accountDetailText'>The Customer Does Not Have a Loan Account</span>"; //Message that appears if no array was returned implying that the customer doesn't have a loan account

echo "</div>";

}

else

{

$sqlLoanAccountID = "SELECT AccountID FROM account WHERE CustomerID = '$custID' AND AccountType = 'Loan'";

if (!$resultLoanID = mysqli\_query($con,$sqlLoanAccountID))

{

die( 'Error in querying the database' . mysqli\_error($con)); //Message that is displayed if there is an error with the query

}

echo "<div class = loanAccountDetails>";

echo "<span class = 'accountDetailText'>Amount Requested for Loan Account:</span> " . $customerLoanAccountRow[0]; //Displaying the loan account details taken from the first sql statement

echo "<span class = 'accountDetailText'><br>Term for Loan Account:</span> " . $customerLoanAccountRow[1];

echo "<span class = 'accountDetailText'><br>MonthlyRepayments for Loan Account:</span> " . $customerLoanAccountRow[2];

echo "<br><span>Balance for Loan Account:</span> " . $customerLoanAccountRow[3];

$customerLoanIDRow = mysqli\_fetch\_array($resultLoanID);

echo "<br><br><button value='$customerLoanIDRow[AccountID]' id='lodgeLoanButton' onclick='chooseLoan()'>Lodge To Loan Account</button><br>"; //Button with the loan account ID as its value to use with the javascript function

echo "</div>";

}

}

if($customerRowcount == 0) //Message that appears if the rows returned is 0

{

echo "<span class = 'accountDetailText'>The Customer ID that has been searched for doesn't exist</span>" . "<br><br> ";

}

//----- Account SearchBar -----//

if(ISSET($\_POST['searchAccount'])) //Checks if the search customer submit button has been clicked on

{

$input = $\_POST['accountID'];

if($input == null)

{

echo "<span class = 'accountDetailText'>No account ID was searched for</span><br>"; //If the input ID is null then it implies that no customer was searched for

}

else

{

//Block of code that shows the customer details from the account

$sql = "SELECT FirstName, LastName, Address, customer.CustomerID, AccountID, Balance, AccountType FROM customer

INNER JOIN account ON customer.CustomerID = account.CustomerID

WHERE customer.DeletedFlag = 0 AND account.AccountID = $input"; //MySQL query to select the customer details according to the account ID through the use of an inner join

if (!$result = mysqli\_query($con,$sql))

{

die( 'Error in querying the database' . mysqli\_error($con)); //Message that is displayed if there is an error with the query

}

while ($row = mysqli\_fetch\_array($result)) //fetches the results of the MySQL query as an associative array and assigns them to variables

{

$fname = $row['FirstName'];

$lname = $row['LastName'];

$address = $row['Address'];

$custID = $row['CustomerID'];

$accID = $row['AccountID'];

$balance = $row['Balance'];

$accType = $row['AccountType'];

}

$accountRowcount = mysqli\_num\_rows($result); //Assigning the number of rows returned to a variable

if($accountRowcount == 0)

{

echo "The Account ID that has been searched for doesn't exist " . "<br><br> "; //Message that appears if the rows returned is 0

}

}

}

?>

<h1>Lodge Money Into An Account</h1>

<br>

Choose a customer or account to lodge money into by name, customer ID or account ID

<br>

<div class="amendBox">

<form action = "CustomerLodgement.php" method = "POST" > <!--Submitting the form to the current page as trying to submit the details to another php file to be handled takes it to the corresponding page -->

<div>

<label for="customerID">Customer ID:</label>

<input type="text" name="customerID" id="customerID" /> <!--Using this rather than numbers shows a calendar in which dates can chosen from -->

</div>

<div>

<div class="searchCustomer">

<input type="submit" value="Search" name="searchCustomer" /><!-- Search Button for customers-->

</form>

<form action = "CustomerLodgement.php" method = "POST" > <!--Submitting the form to the current page as trying to submit the details to another php file to be handled takes it to the corresponding page -->

<div>

<label for="accountID">Account ID:</label>

<input type="text" name="accountID" id="accountID" /> <!--Using this rather than numbers shows a calendar in which dates can chosen from -->

</div>

<div>

<div class="searchAccount">

<input type="submit" value="Search" name="searchAccount" /><!-- Search Button for accounts-->

</form>

<br> <!--Main Form-->

<form action = "lodgements.php" method = "POST" name = "accountForm" >

<div class="fname">

<label for="name">Customer First Name:</label> <!-- Input box for the first name-->

<input type="text" name="fnameID" id="fnameID" autofocus disabled value = "<?php echo $fname;?>"/> <!--Echoing the values returned by the account ID search to the corresponding input boxes -->

</div>

<div class="lname">

<label for="name">Customer Surname:</label> <!-- Input box for the last name-->

<input type="text" name="lnameID" id="lnameID" disabled value = "<?php echo $lname; ?>"/>

</div>

<div class="address">

<label for="address">Customer Address:</label>

<input type="text" name="addressID" id="addressID" disabled value = "<?php echo $address; ?>"/> <!-- input box for the address-->

</div>

<div class="customerID">

<label for="custID">Customer ID:</label> <!-- Input box for the first name-->

<input type="text" name="custID" id="custID" disabled value = "<?php echo $custID; ?>"/> <!--Has to be enabled in order to post it's information. Use JS to set it to enabled if the confirm option is true -->

</div>

<div class="accountID">

<label for="accID">Account ID:</label> <!-- Input box for the first name-->

<input type="text" name="accID" id="accID" disabled value = "<?php echo $accID; ?>"/> <!-- Has to be enabled in order to post it's information. Use JS to set it to enabled if the confirm option is true -->

</div>

<div class="accountUsed">

<label for="balance">Account To Make Lodgement:</label> <!-- Input box for the first name-->

<input type="text" name="accountUsedID" id="accountUsedID" disabled value = "<?php echo $accType; ?>"/> <!--Has to be enabled in order to post it's information. Use JS to set it to enabled if the confirm option is true -->

</div>

<div class="lodgement">

<label for="lodgement">Lodgement Amount:</label> <!-- Input box for the first name-->

<input type="number" name="lodgementID" id="lodgementID" step = "0.01" /> <!--Has to be enabled in order to post it's information. Use JS to set it to enabled if the confirm option is true -->

</div>

<div class="submitDetails">

<input type="submit" value="Send Form" name="submit" onclick="confirmLodgement()"/><br><br> <!-- Submit Button onclick="confirmChoices()" -->

</div>

</form>

<div class = "customerListbox">

<?php include 'customerListbox.php'; ?> <!--Placing the listbox at the bottom as putting it near the top causes issues -->

</div>

</fieldset>

</body>

</html>

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### lodgements.php

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<!--

Name Of Screen: Lodgements

Purpose Of Screen: Makes calculations to lodge money into each account type and updates the database and inserts the lodgement details to the transactions table

Student Name: Isaiah Andres

Student Number: C00286361

Date:31/03/2024

-->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="/MainWebsiteCode/MainStyling.css">

<title>Make A Lodgement</title>

</head>

<body>

<?php include '/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php'; ?>

<?php include '../bankConnect.inc.php' ?>

<br><br>

<div class = "ReportBox">

<?php //Account for current date, lodgement , account type, name,

$fname = $\_POST['fnameID'];

$lname = $\_POST['lnameID'];

$accountUsed = $\_POST['accountUsedID']; //Assignning posted values to variables

$accountID = $\_POST['accID'];

$customerID = $\_POST['custID'];

$lodgement = $\_POST['lodgementID'];

if($lodgement == null || $lodgement <= 0 || $customerID == null)

{

echo "No lodgement was made"; //Message that appears if the lodgement is invalid, null or no customer ID was posted

}

else

{

if($accountUsed == 'Loan')

{

$sqlLoanAccount = "SELECT AmountRequested, Term, MonthlyRepayments FROM loanaccount WHERE AccountID = '$accountID'";

if (!$result = mysqli\_query($con,$sqlLoanAccount))

{

die( 'Error in querying the database' . mysqli\_error($con)); //Message that is displayed if there is an error with the query

}

$loanAccountRow = mysqli\_fetch\_array($result);

$amountRequested = $loanAccountRow['AmountRequested']; //Assigning values retrieved form the mysql statement to variables

$term = $loanAccountRow['Term'];

$monthlyRepayments = $loanAccountRow['MonthlyRepayments'];

$fullRepayment = $term \* $monthlyRepayments; //How much the bank is owed is calculated by the term multiplied by the repayments

$newRepayment = $fullRepayment - $lodgement; //Subtracting the full repayment from the lodgement

$newRoundedRepayment = round($newRepayment, 2);

if($newRepayment >= 0) //If the balance is less than zero then money is still owed

{

$newTerm = $newRepayment/$monthlyRepayments; //Term

$roundedNewTerm = (floor($newTerm)); //Rounding to the lowest whole number W3Schools

$newMonthlyRepayments = $newRoundedRepayment/$roundedNewTerm;

$roundedMonthlyRepayments = round($newMonthlyRepayments, 2); //Rounding to two decimal places W3Schools how accurate must this be?

$sqlUpdateLoan = "UPDATE loanaccount SET TERM = '$roundedNewTerm', MonthlyRepayments = '$roundedMonthlyRepayments' WHERE AccountID = '$accountID'"; //Updating the loan account details with the calculations in mind

if (!mysqli\_query($con, $sqlUpdateLoan))

{

echo "Error ".mysqli\_error($con); // Shows error if there is a problem with the MySQL statement or connection

}

else

{

if (mysqli\_affected\_rows($con) != 0) //Following code takes place if rows have been affected

{

$currentDateString = strtotime("today"); //Setting string to time to "today" will get the current date W3Schools

$currentDate = date("Y-m-d", $currentDateString); //Formatting the date to "2000-12-12"

echo "

<h1>Lodgement Report</h1> <br><br>

Date: "; echo "$currentDate"; //Echoing html code that displays customer details

echo " &nbsp &nbsp Customer Name: "; echo "$fname" . " " ."$lname <br><br>";

echo "Account Type: Loan Account <br>";

echo "Lodgement Made: "; echo "$lodgement euro <br><br>";

echo "Previous Term: "; echo "$term months<br>";

echo "Previous Monthly Repayment: "; echo "$monthlyRepayments euro<br>";

echo "New Term: "; echo "$roundedNewTerm months<br>";

echo "New Monthly Repayment "; echo "$roundedMonthlyRepayments euro<br><br>";

$sqlGetBalance = "SELECT Balance FROM account WHERE AccountID = $accountID"; //MySQL query to retrieve the balance

if (!$balanceResult=mysqli\_query($con, $sqlGetBalance)) //Query is executed here

{

echo "Error ".mysqli\_error($con); // Shows error if there is a problem with the MySQL statement or connection

}

$balanceRow = mysqli\_fetch\_array($balanceResult);

$balance = $balanceRow['Balance']; //Getting the balance from the associative array

$newBalance = $balance + $lodgement;

//how much is owed affects balance so the lodgement adds to the balance since what's owed is reduced

//mysql query that allows the user to insert the values from the html form to the database fields using POST

$sqlMax = "SELECT MAX(TransactionID) AS maxID FROM transaction";

$result = mysqli\_query($con,$sqlMax);

//mysql query that selects the highest value from the customer ID from the customer, calling it maxid allows for it to be entered to the row array as an index and to get the result

$row = mysqli\_fetch\_assoc($result);

//Fetches the result row as an associative array or as a numerical array

$maxID = $row['maxID']; //Assigning the row with maxID as its index to the variable $maxID

$maxID++; //Increments the maxID to represent the next ID which is to be auto-incremented

$sqlUpdateTransaction = "INSERT INTO transaction (TransactionID,AccountID, AccountType, Type, Amount, Date, Balance)

VALUES ('$maxID','$accountID', '$accountUsed', 'Lodgement', '$lodgement', '$currentDate', '$newBalance')"; //Adding the lodgement information to the transactions table

if (!mysqli\_query($con, $sqlUpdateTransaction)) //Query is executed here

{

echo "Error ".mysqli\_error($con); // Shows error if there is a problem with the MySQL statement or connection

}

}

else

{

echo "No records were changed"; //If the number of affected rows is zero, this message is shown

}

}

}

else //If the balance is greater than zero then no more money is owed and the rest of the money will be added to the balance

{

echo "You can't lodge more money than the full repayment";

}

}

?>

<?php

if($accountUsed == 'current') //Lodgement made straight to the account's balance

{

$sqlGetBalance = "SELECT Balance FROM account WHERE AccountID = $accountID"; //MySQL query to retrieve the accounts balance

if (!$balanceResult=mysqli\_query($con, $sqlGetBalance)) //Query is executed here

{

echo "Error ".mysqli\_error($con); // Shows error if there is a problem with the MySQL statement or connection

}

$balanceRow = mysqli\_fetch\_array($balanceResult); //Fetching the results of the query as an array

$balance = $balanceRow['Balance']; //Getting the balance from the result row

$newBalance = $balance + $lodgement; //Getting the new balance of the account by adding the old balance and lodgement made

$sqlUpdateCurrentAccount = "UPDATE account SET Balance = '$newBalance' WHERE AccountID = '$accountID'"; //Updating the account details

if (!mysqli\_query($con, $sqlUpdateCurrentAccount)) //Query is executed here

{

echo "Error ".mysqli\_error($con); // Shows error if there is a problem with the MySQL statement or connection

}

else

{

if (mysqli\_affected\_rows($con) != 0) //Following code takes place if rows have been affected

{

$currentDateString = strtotime("today"); //Setting string to time to "today" will get the current date W3Schools

$currentDate = date("Y-m-d", $currentDateString); //Formatting the date to "2000-12-12"

echo "

<h1>Lodgement Report</h1> <br><br>

Date: "; echo $currentDate;

echo " &nbsp &nbsp Customer Name: "; echo "$fname" . " " ."$lname <br><br>"; //Echoing html code to display the lodgement details

echo "Account Type: Current Account <br>";

echo "Lodgement Made: "; echo "$lodgement euro <br><br>";

echo "Previous Balance: "; echo "$balance <br><br>";

echo "New Balance: "; echo "$newBalance <br><br>";

//mysql query that allows the user to insert the values from the html form to the database fields using POST

$sqlMax = "SELECT MAX(TransactionID) AS maxID FROM transaction";

$result = mysqli\_query($con,$sqlMax); //mysql query that selects the highest value from the customer ID from the customer, calling it maxid allows for it to be entered to the row array as an index and to get the result

$row = mysqli\_fetch\_assoc($result); //Fetches the result row as an associative array or as a numerical array

$maxID = $row['maxID']; //Assigning the row with maxID as its index to the variable $maxID

$maxID++; //Increments the maxID to represent the next ID which is to be auto-incremented

$sqlUpdateTransaction = "INSERT INTO transaction (TransactionID,AccountID, AccountType, Type, Amount, Date, Balance)

VALUES ('$maxID','$accountID', 'Current', 'Lodgement', '$lodgement', '$currentDate', '$newBalance')"; //Adding the lodgement information to the transactions table

if (!mysqli\_query($con, $sqlUpdateTransaction)) //Query is executed here

{

echo "Error ".mysqli\_error($con); // Shows error if there is a problem with the MySQL statement or connection

}

}

else

{

echo "No records were changed"; //If the number of affected rows is zero, this message is shown

}

}

}

?>

<?php

if($accountUsed == 'Deposit') //Lodgement made straight to the balance

{

$sqlDepositAccount = "SELECT Balance FROM account WHERE AccountID = '$accountID'"; //MySQL query to retrieve the accounts balance

if (!$result = mysqli\_query($con,$sqlDepositAccount)) //Query is executed here

{

die( 'Error in querying the database' . mysqli\_error($con)); //Message that is displayed if there is an error with the query

}

$depositAccountRow = mysqli\_fetch\_array($result); //Fetching the results of the query as an array

$depositBalance = $depositAccountRow[0]; //Getting the balance from the result row

$newDepositBalance = $depositBalance + $lodgement; //Getting the new balance of the account by adding the old balance and lodgement made

$sqlUpdateDepositAccount = "UPDATE account SET Balance = '$newDepositBalance' WHERE AccountID = '$accountID'"; //Updating the account details

if (!mysqli\_query($con, $sqlUpdateDepositAccount)) //Query is executed here

{

echo "Error ".mysqli\_error($con); // Shows error if there is a problem with the MySQL statement or connection

}

else

{

if (mysqli\_affected\_rows($con) != 0) //Following code takes place if rows have been affected

{

$currentDateString = strtotime("today"); //Setting string to time to "today" will get the current date W3Schools

$currentDate = date("Y-m-d", $currentDateString); //Formatting the date to "2000-12-12"

echo "

<h1>Lodgement Report</h1> <br><br>

Date: "; echo $currentDate;

echo " &nbsp &nbsp Customer Name: "; echo "$fname" . " " ."$lname <br><br>"; //Echoing html code to display the lodgement details

echo "Account Type: Deposit Account <br>";

echo "Lodgement Made: "; echo "$lodgement euro <br><br>";

echo "Previous Balance: "; echo "$depositBalance <br><br>";

echo "New Balance: "; echo "$newDepositBalance <br><br>";

//mysql query that allows the user to insert the values from the html form to the database fields using POST

$sqlMax = "SELECT MAX(TransactionID) AS maxID FROM transaction";

$result = mysqli\_query($con,$sqlMax); //mysql query that selects the highest value from the customer ID from the customer, calling it maxid allows for it to be entered to the row array as an index and to get the result

$row = mysqli\_fetch\_assoc($result); //Fetches the result row as an associative array or as a numerical array

$maxID = $row['maxID']; //Assigning the row with maxID as its index to the variable $maxID

$maxID++; //Increments the maxID to represent the next ID which is to be auto-incremented

$sqlUpdateTransaction = "INSERT INTO transaction (TransactionID,AccountID, AccountType, Type, Amount, Date, Balance)

VALUES ('$maxID','$accountID', '$accountUsed', 'Lodgement', '$lodgement', '$currentDate', '$newDepositBalance')"; //Adding the lodgement information to the transactions table

if (!mysqli\_query($con, $sqlUpdateTransaction)) //Query is executed here

{

echo "Error ".mysqli\_error($con); // Shows error if there is a problem with the MySQL statement or connection

}

}

else

{

echo "No records were changed"; //If the number of affected rows is zero, this message is shown

}

}

}

}

?>

<form action = "CustomerLodgement.php" method = "POST" > <!--Submitting the form to the lodgement page despite sending no information will bring the user back to the lodgement screen -->

<div class="returnToLodgement">

<input type="submit" value="Return to lodgements" name="submit"/><br><br> <!-- Submit Button onclick="confirmChoices()" -->

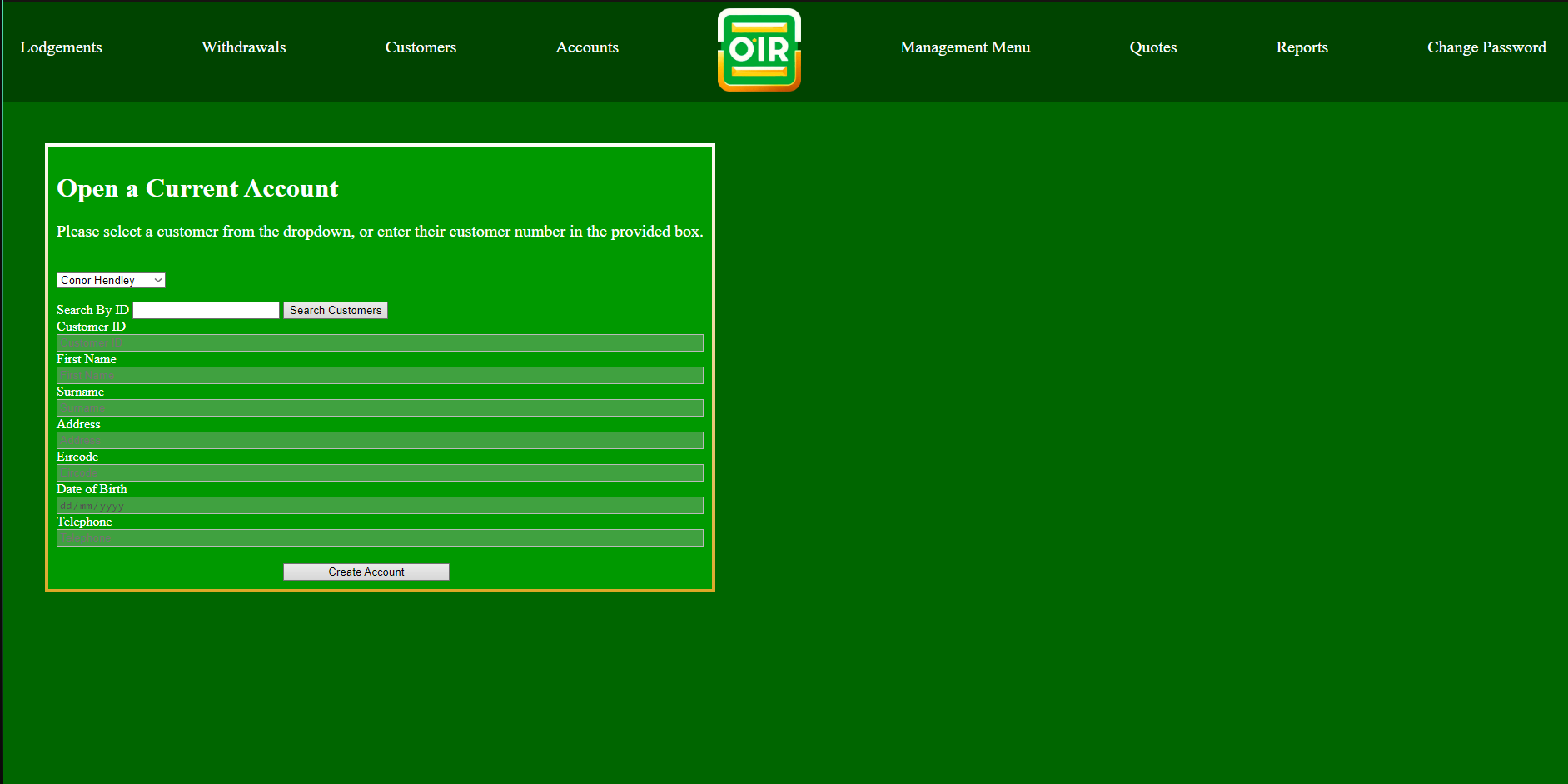
</div>

</div>

</form>

## **Stuart Rossiter:**

### addCurrentAccount.html.php



<!--Stuart Rossiter

c00284845

February, 2024

Add Current Account

A screen allowing the user to select a customer, for whom they will be creating a current account

-->

<?php session\_start();?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="/MainWebsiteCode/MainStyling.css">

<title>OIR Banking System</title>

</head>

<body>

<?PHP include("/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php");?>

<div class="subjectbox">

<h1>Open a Current Account</h1>

<p class="subjectboxtext">

Please select a customer from the dropdown, or enter their customer number in the provided box.

<div id="found"></div>

<?php

include "/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/bankConnect.inc.php";

date\_default\_timezone\_set("GMT");

//Used for preventing backtracking \/

$\_SESSION['currentCreated'] = 0;

$sql = "SELECT CustomerID, FirstName, LastName, Address, Eircode, DOB, Telephone FROM customer WHERE DeletedFlag=0";

//query is run to select details from customers

if(!$result = mysqli\_query($con, $sql))

{

die('ERROR IN QUERYING THE DATABASE' . mysqli\_error($con));

}

echo"<br><select name='listbox' id='listbox' onclick='populate()'>";

while($row = mysqli\_fetch\_array($result))

{

$customerid = $row['CustomerID'];

$firstname = $row['FirstName'];

$surname = $row['LastName'];

$address = $row['Address'];

$eircode = $row['Eircode'];

$dateOfBirth = $row['DOB'];

$dob = date\_create($dateOfBirth);

$dob = date\_format($dob,"Y-m-d");

$telephone = $row['Telephone'];

$alltext = "$customerid,$firstname,$surname,$address,$eircode,$dob,$telephone";

echo"<option value = '$alltext'>$firstname $surname</option>";

}

echo "</select>";

mysqli\_close($con);

?>

</p>

<form action="addCurrentAccount.html.php" method="post">

<label for="search">Search By ID</label>

<input type="number" name="search" id="search">

<button type="submit">Search Customers</button>

</form>

<form class="customerDetails" action="detailCurrentAccount.html.php" method="post" onsubmit="return confirmDetails()">

<label for="displayid">Customer ID</label>

<input type="number" name="displayid" id="displayid" disabled placeholder="Customer ID">

<label for="displayfname">First Name</label>

<input type="text" name="displayfname" id="displayfname" disabled placeholder="First Name">

<label for="displaysname">Surname</label>

<input type="text" name="displaysname" id="displaysname" disabled placeholder="Surname">

<label for="displayaddress">Address</label>

<input type="text" name="displayaddress" id="displayaddress" disabled placeholder="Address">

<label for="displayeircode">Eircode</label>

<input type="text" name="displayeircode" id="displayeircode" disabled placeholder="Eircode">

<label for="displaydob">Date of Birth</label>

<input type="date" name="displaydob" id="displaydob" disabled placeholder="Date of Birth">

<label for="displaytelephone">Telephone</label>

<input type="text" name="displaytelephone" id="displaytelephone" disabled placeholder="Telephone">

<button style="margin-left:35%; margin-top: 20px; width: 200px;" type="submit">Create Account</button>

</form>

</div>

<?php

include "/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/bankConnect.inc.php";

date\_default\_timezone\_set("GMT");

if (isset($\_POST["search"]) && $\_POST["search"] != null)

{

$search = $\_POST["search"];

$sql = "SELECT CustomerID, FirstName, LastName, Address, Eircode, DOB, Telephone FROM customer WHERE DeletedFlag=0 AND CustomerId=$search";

//Query is run for details from a customer with provided id

if(!$result = mysqli\_query($con, $sql))

{

die('ERROR IN QUERYING THE DATABASE' . mysqli\_error($con));

}

if ($row = mysqli\_fetch\_array($result))

{

echo "

<script>

document.getElementById('found').innerHTML = '';

</script>";

$customerid = $row['CustomerID'];

$firstname = $row['FirstName'];

$surname = $row['LastName'];

$address = $row['Address'];

$eircode = $row['Eircode'];

$dateOfBirth = $row['DOB'];

$dob = date\_create($dateOfBirth);

$dob = date\_format($dob,"Y-m-d");

$telephone = $row['Telephone'];

$alltext = "'$customerid,$firstname,$surname,$address,$eircode,$dob,$telephone'";

echo"

<script>

var result = $alltext;

var customerDetails = result.split(',');

document.getElementById('displayid').value = customerDetails[0];

document.getElementById('displayfname').value = customerDetails[1];

document.getElementById('displaysname').value = customerDetails[2];

document.getElementById('displayaddress').value = customerDetails[3];

document.getElementById('displayeircode').value = customerDetails[4];

document.getElementById('displaydob').value = customerDetails[5];

document.getElementById('displaytelephone').value = customerDetails[6];

</script>";

}

else

{

echo

"

<script>

document.getElementById('found').innerHTML = 'The customer with id $search was not found.';

</script>

";

}

}

mysqli\_close($con);

?>

<script>

if (document.getElementById('displayid').disabled == false)

{

toggleLock();

}

//populates the onscreen form with the values from the listbox

function populate()

{

var sel = document.getElementById("listbox");

var result;

result = sel.options[sel.selectedIndex].value;

var customerDetails = result.split(',');

document.getElementById("displayid").value = customerDetails[0];

document.getElementById("displayfname").value = customerDetails[1];

document.getElementById("displaysname").value = customerDetails[2];

document.getElementById("displayaddress").value = customerDetails[3];

document.getElementById("displayeircode").value = customerDetails[4];

document.getElementById("displaydob").value = customerDetails[5];

document.getElementById("displaytelephone").value = customerDetails[6];

}

//prompts the user to confirm that the correct customer is chosen

function confirmDetails()

{

if (document.getElementById("displayid").value > 0)

{

var status = confirm("Are you sure you wish to create a Current Account for the following Customer? \n ID: " + document.getElementById("displayid").value + " Name: " + document.getElementById("displayfname").value + " " + document.getElementById("displaysname").value);

if (status)

{

toggleLock();

}

return status;

}

else

{

alert("No Customer Selected!");

return false;

}

}

//toggles fields for the sake of POSTing

function toggleLock()

{

if (document.getElementById('displayid').disabled)

{

document.getElementById('displayid').disabled = false;

document.getElementById('displayfname').disabled = false;

document.getElementById('displaysname').disabled = false;

document.getElementById('displayaddress').disabled = false;

document.getElementById('displayeircode').disabled = false;

document.getElementById('displaydob').disabled = false;

document.getElementById('displaytelephone').disabled = false;

}

else

{

document.getElementById('displayid').disabled = true;

document.getElementById('displayfname').disabled = true;

document.getElementById('displaysname').disabled = true;

document.getElementById('displayaddress').disabled = true;

document.getElementById('displayeircode').disabled = true;

document.getElementById('displaydob').disabled = true;

document.getElementById('displaytelephone').disabled = true;

}

}

</script>

</body>

</html>

### detailCurrentAccount.html.php

### 

<!--Stuart Rossiter

c00284845

February, 2024

Detail Current Account

A screen to show the details of the current account to be created, and allowing the insertion of an overdraft limit and starting balance

-->

<?php session\_start();?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="/MainWebsiteCode/MainStyling.css">

<title>OIR Banking System</title>

</head>

<body>

<?PHP include("/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php");?>

<div class="subjectbox">

<h1>Create a Current Account</h1>

<?php

include("/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/bankConnect.inc.php");

if ($\_SESSION['currentCreated'] == 1)

{

echo "<form type='hidden' id='goBack' action='addCurrentAccount.html.php' method='post'>

</form>

<script>document.getElementById('goBack').submit();</script>";

}

//Checks if the selected customer has a current account already

$sql = "SELECT \* FROM account WHERE DeletedFlag=0 AND CustomerID=$\_POST[displayid] AND AccountType = 'current'";

if (!$result = mysqli\_query($con, $sql))

{

die("ERROR CONNECTING TO DATABASE". mysqli\_error($con));

}

else

{

if ($row = mysqli\_fetch\_array($result))

{

echo"Customer already has a current account.";

echo"

<form action='addCurrentAccount.html.php' method='post'>

<br>

<button type='submit'>Return To Previous Page</button>

</form>";

}

else

{

//fetches the highest accountid, and adds 1 to get the ID that the created account will have

$sql = "SELECT \* FROM account ORDER BY AccountID DESC";

$result = mysqli\_query($con, $sql);

if (mysqli\_num\_rows($result) == 0)

{

$accountid = 1;

}

else

{

$row = mysqli\_fetch\_array($result);

$accountid = $row["AccountID"] + 1;

}

echo"

<p class='subjectboxtext'>

<form class='customerDetails' action='currentAccountAdded.html.php' method='post' onsubmit='return confirmDetails()'>

<label for='displaycid'>Customer ID</label>

<input value='$\_POST[displayid]' tabindex='-1' type='number' name='displaycid' id='displaycid' disabled placeholder='Account ID'>

<label for='displayid'>Account ID</label>

<input value='$accountid' tabindex='-1' type='number' name='displayid' id='displayid' disabled placeholder='Account ID'>

<label for='overdraft'>Overdraft Limit</label>

<input type='number' step='0.01' name='overdraft' min='0.00' id='overdraft' required placeholder='XXXX.XX'>

<label for='deposit'>Deposit (optional)</label>

<input type='number' step='0.01' name='added' id='added' min='0.00' placeholder='Amount to be deposited'>

<button style='margin-left:35%; margin-top: 20px; width: 200px;' type='submit'>Create Account</button>

</form>

</p>";

}

}

mysqli\_close($con);

?>

<script>

if (document.getElementById('displayid').disabled == false)

{

toggleLock();

}

//confirms whether the current account is to be created, and unlocks fields if so (for posting)

function confirmDetails()

{

status = confirm("Are you sure all details are correct?");

if (status)

{

toggleLock();

}

return status;

}

//toggles whether fields are locked or unlocked, for the sake of POSTing

function toggleLock()

{

if (document.getElementById('displayid').disabled)

{

document.getElementById('displayid').disabled = false;

document.getElementById('displaycid').disabled = false;

}

else

{

document.getElementById('displayid').disabled = true;

document.getElementById('displaycid').disabled = true;

}

}

</script>

</div>

</body>

</html>

### currentAccountAdded.html.php

### 

<!--Stuart Rossiter

c00284845

February, 2024

Current Account Added

A screen to show that a current account has been created

-->

<?php session\_start();?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="/MainWebsiteCode/MainStyling.css">

<title>OIR Banking System</title>

</head>

<body>

<?PHP include("/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php");?>

<!--The ACCOUNT ADDED message, styled with the subjectbox class. Any mention of subjectboxes refers to the boxes found within the main body of the page underneath the menu bar-->

<div class="subjectbox">

<h1>Current Account Added</h1>

<p class="subjectboxtext">

Current Account has been added.

</p>

<form action='/MainWebsiteCode/OIR BANK.html.php' method='post'>

<br>

<button type='submit'>Return To Home Page</button>

</form>

</div>

<?php

//used to prevent backtracking

$\_SESSION['currentCreated'] = 1;

include ("/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/bankConnect.inc.php");

date\_default\_timezone\_set('UTC');

$date = date\_create();

$dateString = date\_format($date, "Y-m-d");

$balance = 0.00 + (float) $\_POST['added'];

//Inserts the current account that's being created into the accounts table

$sql = "INSERT INTO account (AccountID, CustomerID, Balance, AccountType, Date, DeletedFlag) VALUES ($\_POST[displayid], $\_POST[displaycid], $balance, 'current', '$dateString', 0)";

//executes insertion

$result = mysqli\_query($con, $sql);

//gets the most recent rate for current accounts

$sql = "SELECT \* FROM rate WHERE type = 'current' ORDER BY RateID DESC";

//executes query

$result = mysqli\_query($con, $sql);

$row = mysqli\_fetch\_array($result);

//inserts the created current account details into the currentaccount table

$sql = "INSERT INTO currentaccount VALUES ($\_POST[displayid], $row[RateID], $\_POST[overdraft])";

//executes insertion

$result = mysqli\_query($con, $sql);

if ($balance > 0.00)

{

//if balance is greater than 0, transaction must be made

//get most recent transaction id

$sql = "SELECT \* FROM transaction ORDER BY TransactionID DESC";

$result = mysqli\_query($con, $sql);

if (mysqli\_num\_rows($result) == 0)

{

//if transaction table is empty, make the id = 1

$transactionID = 1;

}

else

{

//if transactions exist, take highest ID and add 1

$row = mysqli\_fetch\_array($result);

$transactionID = $row['TransactionID'] + 1;

}

//insert transaction details into transaction table

$sql = "INSERT INTO transaction (TransactionID, AccountID, AccountType, Type, Amount, Date, Balance) VALUES ($transactionID, $\_POST[displayid], 'Current', 'Initial Deposit', $balance, '$dateString', $balance)";

//execute insertion

$result = mysqli\_query($con, $sql);

}

mysqli\_close($con);

?>

</body>

</html>

### deleteCurrentAccount.html.php

### 

<!--Stuart Rossiter

c00284845

March, 2024

Delete Current Account

A screen to show the details of the current account to be deleted

-->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="/MainWebsiteCode/MainStyling.css">

<title>OIR Banking System</title>

</head>

<body>

<?PHP include("/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php");?>

<div class="subjectbox">

<h1>Delete a Current Account</h1>

<p class="subjectboxtext">

Please select a customer from the dropdown, or enter their customer or account number in the provided box.

<div id="found"></div>

<?php

include "/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/bankConnect.inc.php";

date\_default\_timezone\_set("GMT");

//acquire customer details and current account details using inner join

$sql = "SELECT customer.CustomerID, customer.FirstName, customer.LastName, customer.Address, customer.Eircode, customer.DOB, customer.Telephone, account.AccountID, account.Balance FROM (customer INNER JOIN account ON customer.CustomerID = account.CustomerID) WHERE account.DeletedFlag=0 AND account.AccountType='current'";

//execute query

if(!$result = mysqli\_query($con, $sql))

{

die('ERROR IN QUERYING THE DATABASE' . mysqli\_error($con));

}

echo"<br><select name='listbox' id='listbox' onclick='populate()'>";

//Create listbox with entries from database

while($row = mysqli\_fetch\_array($result))

{

$customerid = $row['CustomerID'];

$firstname = $row['FirstName'];

$surname = $row['LastName'];

$address = $row['Address'];

$eircode = $row['Eircode'];

$dateOfBirth = $row['DOB'];

$dob = date\_create($dateOfBirth);

$dob = date\_format($dob,"d/m/Y");

$telephone = $row['Telephone'];

$accountid = $row['AccountID'];

$balance = $row['Balance'];

$alltext = "$customerid,$firstname,$surname,$address,$eircode,$dob,$telephone,$accountid,$balance";

echo"<option value = '$alltext'>$firstname $surname</option>";

}

echo "</select>";

mysqli\_close($con);

?>

</p>

<form action="deleteCurrentAccount.html.php" method="post">

<label for="search">Search By ID</label>

<input type="number" name="search" id="search">

<input type="radio" id="customerID" name="selection" value="CustomerID" checked>

Customer ID

<input type="radio" id="accountID" name="selection" value="AccountID">

Account ID

<button type="submit">Search Customers</button>

</form>

<form class="customerDetails" action="currentAccountDeleted.html.php" method="post" onsubmit="return confirmDetails()">

<label for="displayid">Customer ID</label>

<input type="number" name="displayid" id="displayid" disabled placeholder="Customer ID">

<label for="displayfname">First Name</label>

<input type="text" name="displayfname" id="displayfname" disabled placeholder="First Name">

<label for="displaysname">Surname</label>

<input type="text" name="displaysname" id="displaysname" disabled placeholder="Surname">

<label for="displayaddress">Address</label>

<input type="text" name="displayaddress" id="displayaddress" disabled placeholder="Address">

<label for="displayeircode">Eircode</label>

<input type="text" name="displayeircode" id="displayeircode" disabled placeholder="Eircode">

<label for="displaydob">Date of Birth</label>

<input type="date" name="displaydob" id="displaydob" disabled placeholder="Date of Birth">

<label for="displaytelephone">Telephone</label>

<input type="text" name="displaytelephone" id="displaytelephone" disabled placeholder="Telephone">

<label for="displayaid">Account ID</label>

<input type="number" name="displayaid" id="displayaid" disabled placeholder="Account ID">

<label for="displaybalance">Balance</label>

<input type="number" name="displaybalance" id="displaybalance" disabled placeholder="Balance">

<button style="margin-left:35%; margin-top: 20px; width: 200px;" type="submit">Delete Account</button>

</form>

</div>

<?php

include "/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/bankConnect.inc.php";

date\_default\_timezone\_set("GMT");

if (isset($\_POST["search"]) && $\_POST["search"] != null)

{

$search = $\_POST["search"];

if ($\_POST["selection"] == "CustomerID")

{

//Select details about customer and account based on entered customer id

$sql = "SELECT customer.CustomerID, customer.FirstName, customer.LastName, customer.Address, customer.Eircode, customer.DOB, customer.Telephone, account.AccountID, account.Balance FROM (customer INNER JOIN account ON customer.CustomerID = account.CustomerID) WHERE account.DeletedFlag=0 AND account.AccountType='current' AND customer.CustomerID = $search";

}

else

{

//Select details about customer and account based on entered account id

$sql = "SELECT customer.CustomerID, customer.FirstName, customer.LastName, customer.Address, customer.Eircode, customer.DOB, customer.Telephone, account.AccountID, account.Balance FROM (customer INNER JOIN account ON customer.CustomerID = account.CustomerID) WHERE account.DeletedFlag=0 AND account.AccountType='current' AND account.AccountID = $search";

}

//execute query

if(!$result = mysqli\_query($con, $sql))

{

die('ERROR IN QUERYING THE DATABASE' . mysqli\_error($con));

}

//if account found, populate listbox

if ($row = mysqli\_fetch\_array($result))

{

echo "

<script>

document.getElementById('found').innerHTML = '';

</script>";

$customerid = $row['CustomerID'];

$firstname = $row['FirstName'];

$surname = $row['LastName'];

$address = $row['Address'];

$eircode = $row['Eircode'];

$dateOfBirth = $row['DOB'];

$dob = date\_create($dateOfBirth);

$dob = date\_format($dob,"Y-m-d");

$telephone = $row['Telephone'];

$accountid = $row['AccountID'];

$balance = $row['Balance'];

$alltext = "'$customerid,$firstname,$surname,$address,$eircode,$dob,$telephone,$accountid,$balance'";

echo"

<script>

var result = $alltext;

var customerDetails = result.split(',');

document.getElementById('displayid').value = customerDetails[0];

document.getElementById('displayfname').value = customerDetails[1];

document.getElementById('displaysname').value = customerDetails[2];

document.getElementById('displayaddress').value = customerDetails[3];

document.getElementById('displayeircode').value = customerDetails[4];

document.getElementById('displaydob').value = customerDetails[5];

document.getElementById('displaytelephone').value = customerDetails[6];

document.getElementById('displayaid').value = customerDetails[7];

document.getElementById('displaybalance').value = customerDetails[8];

</script>";

}

else

{

echo

"

<script>

document.getElementById('found').innerHTML = 'The $\_POST[selection] $search was not found.';

</script>

";

}

}

mysqli\_close($con);

?>

<script>

if (document.getElementById('displayid').disabled == false)

{

toggleLock();

}

//populates form with listbox values

function populate()

{

var sel = document.getElementById("listbox");

var result;

result = sel.options[sel.selectedIndex].value;

var customerDetails = result.split(',');

document.getElementById("displayid").value = customerDetails[0];

document.getElementById("displayfname").value = customerDetails[1];

document.getElementById("displaysname").value = customerDetails[2];

document.getElementById("displayaddress").value = customerDetails[3];

document.getElementById("displayeircode").value = customerDetails[4];

var date = customerDetails[5].split('/');

var dateString = date[2] + "-" + date[1] + "-" + date[0];

document.getElementById("displaydob").value = dateString;

document.getElementById("displaytelephone").value = customerDetails[6];

document.getElementById('displayaid').value = customerDetails[7];

document.getElementById('displaybalance').value = customerDetails[8];

}

//prompts the user to confirm that the selected current account is to be deleted

function confirmDetails()

{

if (document.getElementById("displayid").value > 0)

{

var status = confirm("Are you sure you wish to delete the Current Account of the following Customer? \n ID: " + document.getElementById("displayid").value + " Name: " + document.getElementById("displayfname").value + " " + document.getElementById("displaysname").value);

if (status)

{

toggleLock();

}

return status;

}

else

{

alert("No Customer Selected!");

return false;

}

}

//toggles whether inputs are disabled for the sake of POSTing

function toggleLock()

{

if (document.getElementById('displayid').disabled)

{

document.getElementById('displayaid').disabled = false;

document.getElementById('displaybalance').disabled = false;

}

else

{

document.getElementById('displayaid').disabled = true;

document.getElementById('displaybalance').disabled = true;

}

}

</script>

</body>

</html>

### currentAccountDeleted.html.php

### 

<!--Stuart Rossiter

c00284845

February, 2024

Current Account Deleted

A screen to confirm the deletion of the selected current account

-->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="/MainWebsiteCode/MainStyling.css">

<title>OIR Banking System</title>

</head>

<body>

<?PHP include("/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php");?>

<!--The ACCOUNT DELETED message, styled with the subjectbox class. Any mention of subjectboxes refers to the boxes found within the main body of the page underneath the menu bar-->

<div class="subjectbox">

<h1>Delete A Current Account</h1>

<p class="subjectboxtext">

<?php

include ("/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/bankConnect.inc.php");

$balance = $\_POST['displaybalance'];

//dont allow deletion if balance is not 0

if ($balance != 0.00)

{

echo "ERROR : Balance of account id " . $\_POST['displayaid'] . " is not 0. Please clear balance and try again.";

}

else

{

//set the deletedFlag of the selected Current Account to be 1, signifying it has been deleted

$sql = "UPDATE account SET DeletedFlag = 1 WHERE account.AccountID = $\_POST[displayaid]";

//execute update

if (!mysqli\_query($con, $sql))

{

echo mysqli\_error($con);

}

else

{

echo "Account ID " . $\_POST['displayaid'] . " has been closed.";

}

}

mysqli\_close($con);

?>

</p>

<form action='/MainWebsiteCode/OIR BANK.html.php' method='post'>

<br>

<button type='submit'>Return To Home Page</button>

</form>

</div>

</body>

</html>

### amendViewCurrentAccount.html.php

### 

<!--

Stuart Rossiter

c00284845

March, 2024

Amend View Current Account

Displays details of selected account for viewing or amending

-->

<?php session\_start(); ?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="/MainWebsiteCode/MainStyling.css">

<title>OIR Banking System</title>

</head>

<body>

<?PHP include("/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php");

if(isset($\_SESSION['amended']))

{

echo "<script>

document.getElementById('amendid').disabled = true;

document.getElementById('amendfname').disabled = true;

document.getElementById('amendsname').disabled = true;

document.getElementById('amendoverdraft').disabled = true;

</script>

";

}

unset($\_SESSION['amended']);

?>

<div class="subjectbox">

<h1> Amend/View a Person</h1>

<h4>Please select a current account, and then click the amend button if you wish to update details.</h4>

<?php

include "/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/bankConnect.inc.php";

date\_default\_timezone\_set("GMT");

//select details about customer and their current account to populate listbox

$sql = "SELECT customer.CustomerID, customer.FirstName, customer.LastName, customer.Address, customer.Eircode, customer.DOB, customer.Telephone, account.AccountID, account.Balance, currentaccount.OverdraftLimit FROM ((customer INNER JOIN account ON customer.CustomerID = account.CustomerID) INNER JOIN currentaccount ON account.AccountID = currentaccount.AccountID) WHERE account.DeletedFlag=0 AND account.AccountType='current'";

//execute query

if(!$result = mysqli\_query($con, $sql))

{

die('ERROR IN QUERYING THE DATABASE' . mysqli\_error($con));

}

echo"<br><select name='listbox' id='listbox' onclick='populate()'>";

while($row = mysqli\_fetch\_array($result))

{

$customerid = $row['CustomerID'];

$firstname = $row['FirstName'];

$surname = $row['LastName'];

$address = $row['Address'];

$eircode = $row['Eircode'];

$dateOfBirth = $row['DOB'];

$telephone = $row['Telephone'];

$accountid = $row['AccountID'];

$balance = $row['Balance'];

$overdraft = $row['OverdraftLimit'];

$alltext = "$customerid,$firstname,$surname,$address,$eircode,$dateOfBirth,$telephone,$accountid,$balance,$overdraft";

echo"<option value = '$alltext'>$firstname $surname</option>";

}

echo "</select>";

mysqli\_close($con);

?>

<script>

//populate form with listbox selection

function populate()

{

if(document.getElementById("amendoverdraft").disabled == false)

{

toggleLock();

}

var sel = document.getElementById("listbox");

var result;

result = sel.options[sel.selectedIndex].value; //Take the value from the selected option in the listbox

var personDetails = result.split(','); //split the value at every comma

//Update form with details of selected person

document.getElementById("amendcid").value = personDetails[0];

document.getElementById("amendfname").value = personDetails[1];

document.getElementById("amendsname").value = personDetails[2];

document.getElementById("amendaddress").value = personDetails[3];

document.getElementById("amendeircode").value = personDetails[4];

document.getElementById("amenddob").value = personDetails[5];

document.getElementById("amendtelephone").value = personDetails[6];

document.getElementById("amendid").value = personDetails[7];

document.getElementById("amendbalance").value = personDetails[8];

document.getElementById("amendoverdraft").value = personDetails[9];

var min;

if (parseFloat(personDetails[8]) < 0.00)

{

min = parseFloat(personDetails[8]);

min = min \* -1;

document.getElementById('amendoverdraft').min = min;

}

else

{

document.getElementById('amendoverdraft').min = 0;

}

//AJAX, or Asynchronous Javascript And XML

//Create a new XMLHttpRequest object

var AJAX = new XMLHttpRequest();

//When the ready state of the object changes

AJAX.onreadystatechange = function()

{

//if the readystate is 4 (call completed) and the status is 200 (call completed successfully)

if (this.readyState == 4 && this.status == 200)

{

//get the echoed text from the XMLHTTPRequest call (transaction table) and put it in the history div

document.getElementById("history").innerHTML = this.responseText;

}

};

//Specify the method and action of the call

AJAX.open("POST", "fetchTransactions.php");

//set up variables to post, encode them as form data

var postID = "accountid=" + encodeURIComponent(personDetails[7]);

//Sets the request header to specify the data sent in the send method, this being encoded form data

AJAX.setRequestHeader("Content-type", "application/x-www-form-urlencoded");

//make AJAX call

AJAX.send(postID);

}

//toggle whether inputs are disabled, used for POSTing

function toggleLock()

{

if (document.getElementById("amendViewButton").value == "Amend Details") // If the user wishes to amend the details

{

//enable the editable fields

document.getElementById("amendoverdraft").disabled = false;

//Change button to View Details

document.getElementById("amendViewButton").value = "View Details";

}

else //If the user wishes to view the details

{

//disable editable fields

document.getElementById("amendoverdraft").disabled = true;

//Change button to Amend Details

document.getElementById("amendViewButton").value = "Amend Details";

}

}

//Prompt user to confirm changes to current account

function confirmDetails()

{

var response;

response = confirm('Are you sure you want to save these changes?'); //Ask if user wants to save changes

if (response) //If the user says yes

{

//enable fields to be able to post them

document.getElementById("amendid").disabled = false;

document.getElementById("amendfname").disabled = false;

document.getElementById("amendsname").disabled = false;

document.getElementById("amendoverdraft").disabled = false;

return true;

}

else //if user says no

{

//repopulate to undo any changes

populate();

//relock the fields

if(document.getElementById("amendoverdraft").disabled == false)

{

toggleLock();

}

return false;

}

}

</script>

<p id="amend"></p>

<form action="amendViewCurrentAccount.html.php" method="post">

<label for="search">Search By ID</label>

<input type="number" name="search" id="search">

<input type="radio" id="customerID" name="selection" value="CustomerID" checked>

Customer ID

<input type="radio" id="accountID" name="selection" value="AccountID">

Account ID

<button type="submit">Search Customers</button>

</form>

<input type="button" value="Amend Details" id="amendViewButton" onclick="toggleLock()">

<form name="myForm" class="customerDetails" action="currentAccountAmended.html.php" onsubmit="return confirmDetails()" method="post">

<label for="amendid">Account ID</label>

<input type="number" name="amendid" id="amendid" disabled placeholder="Account ID">

<label for="amendcid">Customer ID</label>

<input type="number" name="amendcid" id="amendcid" disabled placeholder="Customer ID">

<label for="amendfname">First Name</label>

<input type="text" name="amendfname" id="amendfname" disabled placeholder="First Name">

<label for="amendsname">Surname</label>

<input type="text" name="amendsname" id="amendsname" disabled placeholder="Surname">

<label for="amendaddress">Address</label>

<input type="text" name="amendaddress" id="amendaddress" disabled placeholder="Address">

<label for="amendeircode">Eircode</label>

<input type="text" name="amendeircode" id="amendeircode" disabled placeholder="Eircode">

<label for="amenddob">Date of Birth</label>

<input type="date" name="amenddob" id="amenddob" disabled placeholder="Date of Birth">

<label for="amendtelephone">Telephone</label>

<input type="text" name="amendtelephone" id="amendtelephone" disabled placeholder="Telephone">

<label for="amendbalance">Balance</label>

<input type="text" step="0.01" name="amendbalance" id="amendbalance" disabled placeholder="Balance">

<label for="amendoverdraft">Overdraft Limit</label>

<input type="number" name="amendoverdraft" id="amendoverdraft" disabled min=0 required placeholder="Overdraft Limit">

<br><br>

<button type="submit">Save Changes</button>

</form>

</div>

<div class="subjectbox">

<h1>Transaction History</h1>

<h4>Previous Transactions</h4>

<div id="history">

<?php

include "/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/bankConnect.inc.php";

date\_default\_timezone\_set("GMT");

if (isset($\_POST["search"]) && $\_POST["search"] != null)

{

$search = $\_POST["search"];

if ($\_POST["selection"] == "CustomerID")

{

//if customerID selected, search for current account by customerID

$sql = "SELECT customer.CustomerID, customer.FirstName, customer.LastName, customer.Address, customer.Eircode, customer.DOB, customer.Telephone, account.AccountID, account.Balance, currentaccount.OverdraftLimit FROM ((customer INNER JOIN account ON customer.CustomerID = account.CustomerID) INNER JOIN currentaccount ON account.AccountID = currentaccount.AccountID) WHERE account.DeletedFlag=0 AND account.AccountType='current' AND customer.CustomerID = $search";

}

else

{

//otherwise accountID must be chosen, so search by accountID

$sql = "SELECT customer.CustomerID, customer.FirstName, customer.LastName, customer.Address, customer.Eircode, customer.DOB, customer.Telephone, account.AccountID, account.Balance, currentaccount.OverdraftLimit FROM ((customer INNER JOIN account ON customer.CustomerID = account.CustomerID) INNER JOIN currentaccount ON account.AccountID = currentaccount.AccountID) WHERE account.DeletedFlag=0 AND account.AccountType='current' AND account.AccountID = $search";

}

//execute query

if(!$result = mysqli\_query($con, $sql))

{

die('ERROR IN QUERYING THE DATABASE' . mysqli\_error($con));

}

if ($row = mysqli\_fetch\_array($result))

{

echo "

<script>

document.getElementById('amend').innerHTML = '';

</script>";

$customerid = $row['CustomerID'];

$firstname = $row['FirstName'];

$surname = $row['LastName'];

$address = $row['Address'];

$eircode = $row['Eircode'];

$dateOfBirth = $row['DOB'];

$dob = date\_create($dateOfBirth);

$dob = date\_format($dob,"Y-m-d");

$telephone = $row['Telephone'];

$accountid = $row['AccountID'];

$balance = $row['Balance'];

$overdraft = $row['OverdraftLimit'];

$alltext = "'$customerid,$firstname,$surname,$address,$eircode,$dob,$telephone,$accountid,$balance,$overdraft'";

echo"

<script>

var result = $alltext;

var customerDetails = result.split(',');

document.getElementById('amendcid').value = customerDetails[0];

document.getElementById('amendfname').value = customerDetails[1];

document.getElementById('amendsname').value = customerDetails[2];

document.getElementById('amendaddress').value = customerDetails[3];

document.getElementById('amendeircode').value = customerDetails[4];

document.getElementById('amenddob').value = customerDetails[5];

document.getElementById('amendtelephone').value = customerDetails[6];

document.getElementById('amendid').value = customerDetails[7];

document.getElementById('amendbalance').value = customerDetails[8];

document.getElementById('amendoverdraft').value = customerDetails[9];

var min;

if (parseFloat(personDetails[8]) < 0.00)

{

min = parseFloat(personDetails[8]);

min = min \* -1;

document.getElementById('amendoverdraft').min = min;

}

else

{

document.getElementById('amendoverdraft').min = 0;

}

</script>";

include("fetchTransactions.php");

}

else

{

echo

"

<script>

document.getElementById('amend').innerHTML = 'The $\_POST[selection] $search was not found.';

</script>

";

};

}

?>

</div>

</div>

</body>

</html>

### currentAccountAmended.html.php

### 

### fetchTransactions.php

NO SCREENSHOT AVAILABLE

<!--

Stuart Rossiter

c00284845

April, 2024

Fetch Transactions

Fetches transactions for given account, to be used for amend/view current account to display last 10 transactions

-->

<?php

include("/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/bankConnect.inc.php");

if(ISSET($\_POST['accountid']))

{

$accountid = $\_POST['accountid'];

}

//Select transactions of account ID provided

$sql = "SELECT \* FROM transaction WHERE AccountID = $accountid ORDER BY TransactionID DESC";

//execute query

if(!$result = mysqli\_query($con, $sql))

{

die('ERROR IN QUERYING THE DATABASE' . mysqli\_error($con));

}

$counter = 0;

echo "

<table>

<tr>

<th>Transaction ID</th>

<th>Account ID</th>

<th>Type</th>

<th>Amount</th>

<th>Date</th>";

//Echo out table with last 10 transactions, or less if specified

while ($row = mysqli\_fetch\_array($result) and $counter < 10)

{

echo "

<tr>

<td>" . $row['TransactionID'] . "</td>

<td>" . $row['AccountID'] . "</td>

<td>" . $row['Type'] . "</td>

<td>" . $row['Amount'] . "</td>

<td>" . $row['Date'] . "</td>";

$counter++;

}

echo "</table></script>";

mysqli\_close($con);

### withdrawCash.html.php

### 

<!--

Stuart Rossiter

c00284845

March, 2024

Withdraw Cash

Allows selection of current or deposit accounts for withdrawing cash from, and entering of amount to withdraw

-->

<?php session\_start();

//Default to current accounts on first open

if (!isset($\_SESSION['accountselected']))

{

$\_SESSION['accountselected'] = "Current Accounts";

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="/MainWebsiteCode/MainStyling.css">

<title>OIR Banking System</title>

</head>

<body>

<?PHP include("/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php");?>

<div class="subjectbox">

<h1>Withdraw Cash</h1>

<p class="subjectboxtext">

Please select a customer from the dropdown, or enter their customer number, or <br> their account number in the provided box.

<div id="found"></div>

<?php

include "/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/bankConnect.inc.php";

date\_default\_timezone\_set("GMT");

if(ISSET($\_POST['accountselected']))

{

$\_SESSION['accountselected'] = $\_POST['accountselected'];

}

if($\_SESSION['accountselected'] == "Current Accounts")

{

//if current accounts button selected, populate listbox with current accounts

$sql = "SELECT customer.CustomerID, customer.FirstName, customer.LastName, customer.Address, customer.Eircode, customer.DOB, customer.Telephone, account.AccountID, account.Balance, currentaccount.OverdraftLimit FROM ((customer INNER JOIN account ON customer.CustomerID = account.CustomerID) INNER JOIN currentaccount ON account.AccountID = currentaccount.AccountID) WHERE account.DeletedFlag=0 AND account.AccountType='current'";

}

else

{

//else, deposit accounts button must be selected, populate listbox with deposit accounts

$sql = "SELECT customer.CustomerID, customer.FirstName, customer.LastName, customer.Address, customer.Eircode, customer.DOB, customer.Telephone, account.AccountID, account.Balance FROM ((customer INNER JOIN account ON customer.CustomerID = account.CustomerID) INNER JOIN depositaccount ON account.AccountID = depositaccount.AccountID) WHERE account.DeletedFlag=0 AND account.AccountID = depositaccount.AccountID";

}

//execute query

if(!$result = mysqli\_query($con, $sql))

{

die('ERROR IN QUERYING THE DATABASE' . mysqli\_error($con));

}

echo"<br><select name='listbox' id='listbox' onclick='populate()'>";

while($row = mysqli\_fetch\_array($result))

{

$customerid = $row['CustomerID'];

$firstname = $row['FirstName'];

$surname = $row['LastName'];

$address = $row['Address'];

$eircode = $row['Eircode'];

$dateOfBirth = $row['DOB'];

$dob = date\_create($dateOfBirth);

$dob = date\_format($dob,"Y-m-d");

$telephone = $row['Telephone'];

$accountid = $row['AccountID'];

$balance = $row['Balance'];

//if current accounts selected, add overdraft limit to alltext

if (isset($row['OverdraftLimit']))

{

$overdraft=$row['OverdraftLimit'];

}

else

{

$overdraft = "";

}

$alltext = "$customerid,$firstname,$surname,$address,$eircode,$dob,$telephone,$accountid,$balance,$overdraft";

echo"<option value = '$alltext'>$firstname $surname</option>";

}

echo "</select>";

mysqli\_close($con);

?>

</p>

<form action="withdrawCash.html.php" method="post">

<label for="search">Search By ID</label>

<input type="number" name="search" id="search">

<input type="radio" id="customerID" name="selection" value="CustomerID" checked>

Customer ID

<input type="radio" id="accountID" name="selection" value="AccountID">

Account ID

<button type="submit">Search Customers</button>

</form>

<form action="withdrawCash.html.php" method="POST">

<input disabled type="submit" id="currentSelect" name="accountselected" value="Current Accounts">

<input type="submit" id="depositSelect" name="accountselected" value="Deposit Accounts">

</form>

<form class="customerDetails" action="cashWithdrawn.html.php" method="post" onsubmit="return confirmDetails()">

<label for="displayid">Customer ID</label>

<input type="number" name="displayid" id="displayid" disabled placeholder="Customer ID">

<label for="displayfname">First Name</label>

<input type="text" name="displayfname" id="displayfname" disabled placeholder="First Name">

<label for="displaysname">Surname</label>

<input type="text" name="displaysname" id="displaysname" disabled placeholder="Surname">

<label for="displayaddress">Address</label>

<input type="text" name="displayaddress" id="displayaddress" disabled placeholder="Address">

<label for="displayeircode">Eircode</label>

<input type="text" name="displayeircode" id="displayeircode" disabled placeholder="Eircode">

<label for="displaydob">Date of Birth</label>

<input type="date" name="displaydob" id="displaydob" disabled placeholder="Date of Birth">

<label for="displaytelephone">Telephone</label>

<input type="text" name="displaytelephone" id="displaytelephone" disabled placeholder="Telephone">

<label for="displayaid">Account ID</label>

<input type="number" name="displayaid" id="displayaid" disabled placeholder="Account ID">

<label for="displaybalance">Balance</label>

<input type="number" name="displaybalance" id="displaybalance" disabled placeholder="Balance">

<label id="overdraftlabel" for="displaybalance">Overdraft Limit</label>

<input type="number" name="overdraftlimit" id="overdraftlimit" disabled placeholder="Overdraft Limit">

<label for="withdraw">Amount to Withdraw</label>

<input type="number" name="withdraw" id="withdraw" step="0.01" min="0" required placeholder="Amount To Withdraw">

<button style="margin-left:35%; margin-top: 20px; width: 200px;" type="submit">Withdraw Cash</button>

</form>

</div>

<?php

include "/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/bankConnect.inc.php";

date\_default\_timezone\_set("GMT");

if (isset($\_POST["search"]) && $\_POST["search"] != null)

{

$search = $\_POST["search"];

if ($\_POST["selection"] == "CustomerID")

{

//if customerID selected

if (isset($\_SESSION['accountselected']) and $\_SESSION['accountselected'] == "Deposit Accounts")

{

//search for deposit account by customerID if deposit account selected

$sql = "SELECT customer.CustomerID, customer.FirstName, customer.LastName, customer.Address, customer.Eircode, customer.DOB, customer.Telephone, account.AccountID, account.Balance, account.AccountType FROM (customer INNER JOIN account ON customer.CustomerID = account.CustomerID) WHERE account.DeletedFlag=0 AND account.AccountType='deposit' AND customer.CustomerID = $search";

}

else if(isset($\_SESSION['accountselected']) and $\_SESSION['accountselected'] == "Current Accounts")

{

//otherwise if current account selected, search for them by customer id

$sql = "SELECT customer.CustomerID, customer.FirstName, customer.LastName, customer.Address, customer.Eircode, customer.DOB, customer.Telephone, account.AccountID, account.Balance, account.AccountType FROM (customer INNER JOIN account ON customer.CustomerID = account.CustomerID) WHERE account.DeletedFlag=0 AND account.AccountType='current' AND customer.CustomerID = $search";

}

}

else

{

//if customerid not selected, search by accountid, which works regardless of current or deposit account

$sql = "SELECT customer.CustomerID, customer.FirstName, customer.LastName, customer.Address, customer.Eircode, customer.DOB, customer.Telephone, account.AccountID, account.Balance, account.AccountType FROM (customer INNER JOIN account ON customer.CustomerID = account.CustomerID) WHERE account.DeletedFlag=0 AND (account.AccountType='current' OR account.AccountType='deposit') AND account.AccountID = $search";

}

if(!$result = mysqli\_query($con, $sql))

{

die('ERROR IN QUERYING THE DATABASE' . mysqli\_error($con));

}

if ($row = mysqli\_fetch\_array($result))

{

echo "

<script>

document.getElementById('found').innerHTML = '';

</script>";

$customerid = $row['CustomerID'];

$firstname = $row['FirstName'];

$surname = $row['LastName'];

$address = $row['Address'];

$eircode = $row['Eircode'];

$dateOfBirth = $row['DOB'];

$dob = date\_create($dateOfBirth);

$dob = date\_format($dob,"Y-m-d");

$telephone = $row['Telephone'];

$accountid = $row['AccountID'];

$balance = $row['Balance'];

if ($row['AccountType'] == "current")

{

$sql = "SELECT OverdraftLimit FROM currentaccount WHERE AccountID = '$row[AccountID]'";

$row = mysqli\_fetch\_array(mysqli\_query($con, $sql));

$overdraft=$row['OverdraftLimit'];

$\_SESSION['accountselected'] = "Current Accounts";

}

else

{

$overdraft = "";

$\_SESSION['accountselected'] = "Deposit Accounts";

}

$alltext = "'$customerid,$firstname,$surname,$address,$eircode,$dob,$telephone,$accountid,$balance,$overdraft'";

echo"

<script>

var result = $alltext;

var customerDetails = result.split(',');

document.getElementById('displayid').value = customerDetails[0];

document.getElementById('displayfname').value = customerDetails[1];

document.getElementById('displaysname').value = customerDetails[2];

document.getElementById('displayaddress').value = customerDetails[3];

document.getElementById('displayeircode').value = customerDetails[4];

document.getElementById('displaydob').value = customerDetails[5];

document.getElementById('displaytelephone').value = customerDetails[6];

document.getElementById('displayaid').value = customerDetails[7];

document.getElementById('displaybalance').value = customerDetails[8];

document.getElementById('overdraftlimit').value = customerDetails[9];

document.getElementById('withdraw').value = 0.00;

var max;

if (customerDetails[9] == '')

{

max = parseFloat(customerDetails[8]);

}

else

{

max = parseFloat(customerDetails[8]) + parseFloat(customerDetails[9]);

}

document.getElementById('withdraw').max = max;

</script>";

}

else

{

echo

"

<script>

document.getElementById('found').innerHTML = 'The $\_POST[selection] $search was not found.';

</script>

";

}

}

if(ISSET($\_SESSION['accountselected']))

{

if($\_SESSION['accountselected'] == "Current Accounts")

{

echo "

<script>

document.getElementById('currentSelect').disabled = true;

document.getElementById('depositSelect').disabled = false;

document.getElementById('overdraftlimit').style.visibility = 'visible';

document.getElementById('overdraftlabel').style.visibility = 'visible';

</script>";

}

else

{

echo "

<script>

document.getElementById('currentSelect').disabled = false;

document.getElementById('depositSelect').disabled = true;

document.getElementById('overdraftlimit').style.visibility = 'hidden';

document.getElementById('overdraftlabel').style.visibility = 'hidden';

</script>";

}

}

mysqli\_close($con);

?>

<script>

if (document.getElementById('displayid').disabled == false)

{

toggleLock();

}

function populate()

{

var sel = document.getElementById("listbox");

var result;

result = sel.options[sel.selectedIndex].value;

var customerDetails = result.split(',');

document.getElementById("displayid").value = customerDetails[0];

document.getElementById("displayfname").value = customerDetails[1];

document.getElementById("displaysname").value = customerDetails[2];

document.getElementById("displayaddress").value = customerDetails[3];

document.getElementById("displayeircode").value = customerDetails[4];

document.getElementById("displaydob").value = customerDetails[5];

document.getElementById("displaytelephone").value = customerDetails[6];

document.getElementById('displayaid').value = customerDetails[7];

document.getElementById('displaybalance').value = customerDetails[8];

document.getElementById('overdraftlimit').value = customerDetails[9];

document.getElementById('withdraw').value = 0.00;

//Max for withdrawal is balance + overdraft limit

var max;

if (customerDetails[9] == "")

{

max = parseFloat(customerDetails[8]);

}

else

{

max = parseFloat(customerDetails[8]) + parseFloat(customerDetails[9]);

}

document.getElementById('withdraw').max = max;

}

function confirmDetails()

{

if (document.getElementById("displayid").value > 0)

{

var status = confirm("Are you sure you wish to Withdraw " + document.getElementById("withdraw").value + " from the <?php $string = mb\_substr("$\_SESSION[accountselected]", 0, -1); echo "$string";?> of the following Customer? \n ID: " + document.getElementById("displayid").value + " Name: " + document.getElementById("displayfname").value + " " + document.getElementById("displaysname").value);

if (status)

{

toggleLock();

}

return status;

}

else

{

alert("No Customer Selected!");

return false;

}

}

function toggleLock()

{

if (document.getElementById('displayid').disabled)

{

document.getElementById('displayaid').disabled = false;

document.getElementById('displaybalance').disabled = false;

document.getElementById('displayfname').disabled = false;

document.getElementById('displaysname').disabled = false;

document.getElementById('withdraw').disabled = false;

}

else

{

document.getElementById('displayaid').disabled = true;

document.getElementById('displaybalance').disabled = true;

document.getElementById('displayfname').disabled = true;

document.getElementById('displaysname').disabled = true;

document.getElementById('withdraw').disabled = true;

}

}

</script>

</body>

</html>

### cashWithdrawn.html.php

### 

<!--

Stuart Rossiter

c00284845

March, 2024

Cash Withdrawn

Confirms withdrawing of cash and provides transaction details

-->

<?php session\_start(); ?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="initial-scale=1.0">

<link rel="stylesheet" href="/MainWebsiteCode/MainStyling.css">

<title>OIR Banking System</title>

</head>

<body>

<?PHP include("/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/MainMenu.php");?>

<!--The CASH WITHDRAWN message, styled with the subjectbox class. Any mention of subjectboxes refers to the boxes found within the main body of the page underneath the menu bar-->

<div class="subjectbox">

<h1>Withdraw Cash</h1>

<p class="subjectboxtext">

Presented below are the details of the transaction.

<?php

include ("/var/www/vhosts/c2p-bank.candept.com/httpdocs/MainWebsiteCode/bankConnect.inc.php");

$accountid = $\_POST['displayaid'];

$balance = $\_POST['displaybalance'];

$withdrawal = $\_POST['withdraw'];

$name = $\_POST['displayfname'] . " " . $\_POST['displaysname'];

$date = date\_format(date\_create(), "Y-m-d");

$newbalance = ($balance - $withdrawal);

if ($\_SESSION['accountselected'] == "Current Accounts")

{

$accounttype = "Current";

}

else

{

$accounttype = "Deposit";

}

if ($withdrawal == 0.00)

{

echo "Withdrawal of 0.00 entered. Balance of account id " . $accountid . " is unaffected.";

}

else

{

//update balance based on withdrawal

$sql = "UPDATE account SET Balance = '$newbalance' WHERE account.AccountID = '$accountid'";

//execute query

if (!mysqli\_query($con, $sql))

{

echo mysqli\_error($con);

}

else

{

//if query successful, get most recent transaction id

$sql = "SELECT TransactionID FROM transaction ORDER BY TransactionID DESC";

//execute query

$result = mysqli\_query($con, $sql);

//if no transactions already

if (mysqli\_num\_rows($result) == 0)

{

//transaction id = 1

$transid = 1;

}

else

{

//otherwise, transaction id = the highest id + 1

$row = mysqli\_fetch\_array($result);

$transid = $row['TransactionID'] + 1;

}

echo "<br><br>Transaction Details:<br>

Transaction ID: $transid <br>

AccountID: $accountid <br>

Old Balance: $balance <br>

Amount Withdrawn: $withdrawal <br>

New Balance: $newbalance <br>

Date: $date <br>

";

//insert transaction into transaction table

$sql = "INSERT INTO transaction (TransactionID, AccountID, AccountType, Type, Amount, Date, Balance) VALUES ('$transid', '$accountid', '$accounttype', 'Withdrawal', '$withdrawal', '$date', '$newbalance')";

if(!mysqli\_query($con, $sql))

{

echo mysqli\_error($con);

}

}

}

mysqli\_close($con);

?>

</p>

<form action='/MainWebsiteCode/OIR BANK.html.php' method='post'>

<br>

<button type='submit'>Return To Home Page</button>

</form>

</div>

</body>

</html>

## **Temur Rustamov:**