

# C2P Bank System

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# User Interface

## Add screens

*Oliwier Jakubiec*

**Layout:** The layout of the add screens consists of a main sidebar located on the left-hand-side of the screen, along with a form located in the middle of the remaining whitespace.

**Alignment:** The form for the add interface is horizontally centered along the remaining whitespace taken by the sidemenu. Each form is placed near the top with a slight margin.

**Background:** The background of the add screens is an inviting light-purple colour that symbolizes trust. The background of enabled buttons or input fields are a white colour to demonstrate that they are valid elements to interact with.

**Logo:** The logo for the bank is located on the sidemenu. The logo functions as a 'home' button.

**Font and font-size:** The font of the form is 1.4rem to make it a little larger than the base font-size. The font uses rem instead px as its more user-accessible with W3C browser font settings. The font family that the add screens uses is 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

**Text Colour:** The font color of the text in the forms is black to contrast with the light colour of the background, and a lighter gray for fields that may be disabled.

**Headings:** The font of the title of the form is a <h2> tag to make it a little larger and stand out more from the labels and input boxes.

**Positioning:** The labels of each input and its respective input field are relative to each other. The label is located on the left with its respective input field on the right. Each input field is aligned with each other to create a smooth and consistent line.

Buttons in the form are visually centered. In sections with more than one button on the same row, they are split with space-around and space-between.

## Delete screens

Oliwier Jakubiec

**Layout:** The layout of the delete screens consists of a main sidebar located on the left-hand-side of the screen, along with a form located in the middle of the remaining whitespace.

**Alignment:** The form for the delete interface is horizontally centered along the remaining whitespace taken by the sidemenu. Each form is placed near the top with a slight margin.

**Background:** The background of the delete screens is an inviting light-purple colour that symbolizes trust. The background of enabled buttons or input fields are a white colour to demonstrate that they are valid elements to interact with.

**Logo:** The logo for the bank is located on the sidemenu. The logo functions as a 'home' button.

**Font and font-size:** The font of the form is 1.4rem to make it a little larger than the base font-size. The font uses rem instead px as its more user-accessible with W3C browser font settings. The font family that the delete screens uses is 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

**Text Colour:** The font color of the text in the forms is black to contrast with the light colour of the background, and a lighter gray for fields that may be disabled.

**Headings:** The font of the title of the form is a <h2> tag to make it a little larger and stand out more from the labels and input boxes.

**Positioning:** The labels of each input and its respective input field are relative to each other. The label is located on the left with its respective input field on the right. Each input field is aligned with each other to create a smooth and consistent line.

Buttons in the form are visually centered. In sections with more than one button on the same row, they are split with space-around and space-between.

## Amend/view screens

Oliwier Jakubiec

**Layout:** The layout of the amend/view screens consists of a main sidebar located on the left-hand-side of the screen, along with a form located in the middle of the remaining whitespace. Tables, if required, appear under the main section of the form to separate it slightly from the inputted data.

**Alignment:** The form for the amend/view interface is horizontally centered along the remaining whitespace taken by the sidemenu. Each form is placed near the top with a slight margin.

**Background:** The background of the amend/view screens is an inviting light-purple colour that symbolizes trust. The background of enabled buttons or input fields are a white colour to demonstrate that they are valid elements to interact with. The background of the tables in the screens is a light purple, darker than the form colour.

**Logo:** The logo for the bank is located on the sidemenu. The logo functions as a 'home' button.

**Font and font-size:** The font of the form is 1.4rem to make it a little larger than the base font-size. The font uses rem instead of px as it's more user-accessible with W3C browser font settings. The font family that the amend/view screens uses is 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

**Text Colour:** The font color of the text in the forms is black to contrast with the light colour of the background, and a lighter gray for fields that may be disabled.

**Headings:** The font of the title of the form is a <h2> tag to make it a little larger and stand out more from the labels and input boxes.

**Positioning:** The labels of each input and its respective input field are relative to each other. The label is located on the left with its respective input field on the right. Each input field is aligned with each other to create a smooth and consistent line.

Buttons in the form are visually centered. In sections with more than one button on the same row, they are split with space-around and space-between.

For screens that required a transaction table (i.e. Deposit and Current), the table is located after the form as a centered table with round borders.

## Report screens

Oliwier Jakubiec

**Layout:** The layout of the Report screens consists of a main sidebar located on the left-hand-side of the screen, along with a form located in the middle of the remaining whitespace. Tables appear under the main section of the form to separate it slightly from the inputted data.

**Alignment:** The form for the Report interface is horizontally centered along the remaining whitespace taken by the sidemenu. Each form is placed near the top with a slight margin.

**Background:** The background of the Report screens is an inviting light-purple colour that symbolizes trust. The background of enabled buttons or input fields are a white colour to demonstrate that they are valid elements to interact with. The background of the tables in the screens is a light purple, darker than the form colour.

**Logo:** The logo for the bank is located on the sidemenu. The logo functions as a 'home' button.

**Font and font-size:** The font of the form is 1.4rem to make it a little larger than the base font-size. The font uses rem instead of px as it's more user-accessible with W3C browser font settings. The font family that the Report screens uses is 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

**Text Colour:** The font color of the text in the forms is black to contrast with the light colour of the background, and a lighter gray for fields that may be disabled.

**Headings:** The font of the title of the form is a <h2> tag to make it a little larger and stand out more from the labels and input boxes.

**Positioning:** The labels of each input and its respective input field are relative to each other. The label is located on the left with its respective input field on the right. Each input field is aligned with each other to create a smooth and consistent line.

Buttons in the form are visually centered. In sections with more than one button on the same row, they are split with space-around and space-between.

For screens that required a transaction table (i.e. Deposit and Current), the table is located after the form as a centered table with round borders.

## Menus

*Brandon Jaroszczak and Oliwier Jakubiec*

**Layout:** The navigation menu to the left of the screen and menu items are displayed vertically from top to bottom, clicking on dropdowns will reveal submenus with them being indented slightly and being laid out top to bottom.

**Alignment:** the entire menu is aligned to the left of the screen and all the menu items are aligned to the left of the menu, except for the title which is centre aligned.

**Background:** the background for the menu is a dark purple colour, which adds professionalism to the layout.

**Logo:** The logo is located at the top of the side menu and functions as the main menu button.

**Border:** The menu has no border so as not to ruin the aesthetics of the design.

**Font:** The font is a nice, readable font named “Poppins” with the font size being 1rem to have consistency with other elements and to ensure a normal font size.

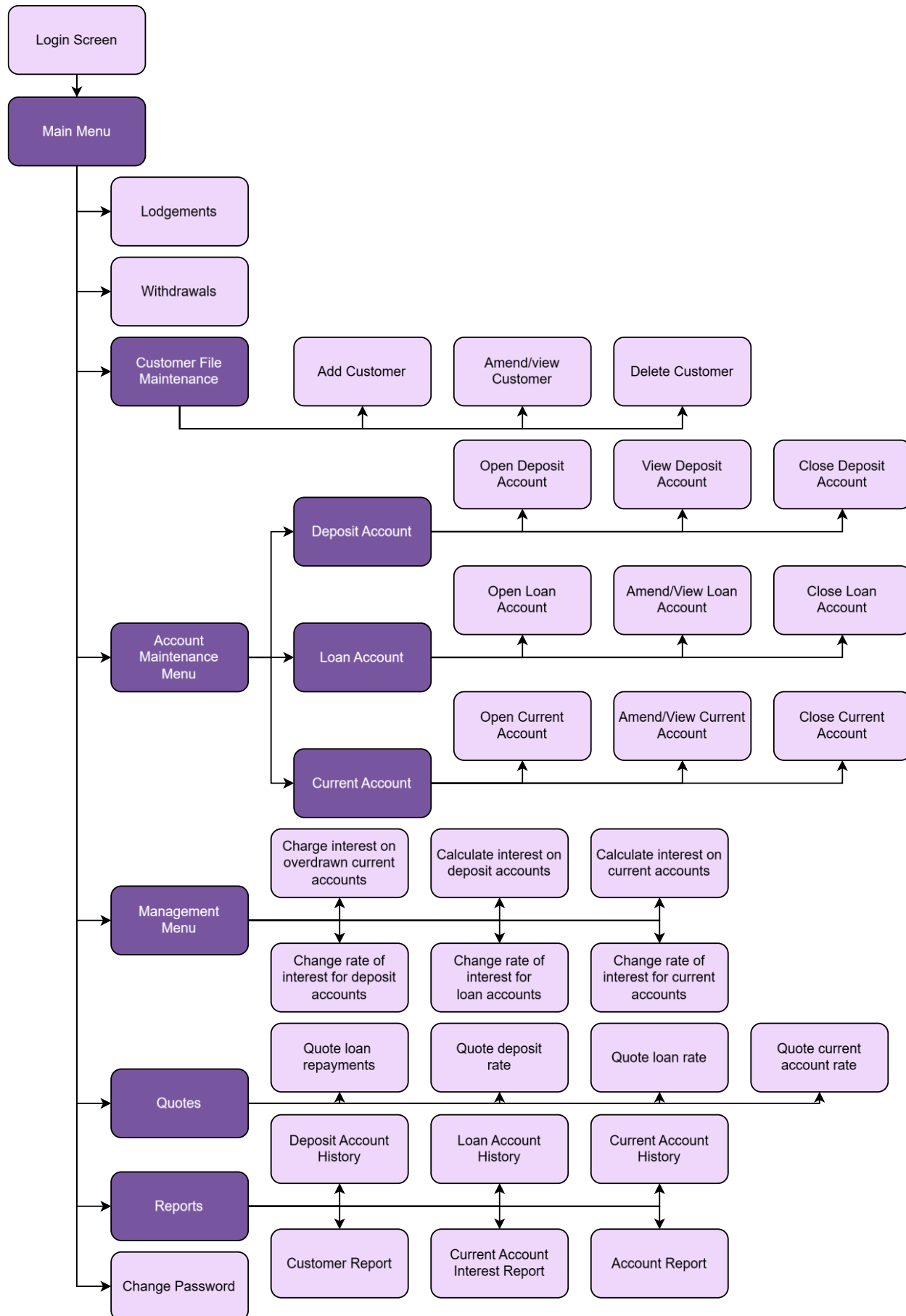
**Text colour:** The text is white to ensure maximum readability, with the selected menu element being purple to quickly show which webpage the user is on at a glance.

**Buttons:** Menu dropdown buttons are positioned in line with text so as to be almost indistinguishable from a normal link, other than the fact there is a downwards facing arrow to signify it's a dropdown. This fits the aesthetics of the entire menu itself.



# System Layout

*Brandon Jaroszczak*




# Database Tables

## Deposit Account

**Brandon Jaroszczak**

### Table structure

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	accountID 	int(11)			No	None		AUTO_INCREMENT
<input type="checkbox"/>	2	accountNumber	int(11)			No	None		
<input type="checkbox"/>	3	balance	decimal(10,2)			No	None		
<input type="checkbox"/>	4	deletedFlag	tinyint(1)			No	0		



### Table data

accountID	accountNumber	balance	deletedFlag
4	12252573	800.50	0
5	48095563	0.01	0
6	40002112	12345.67	0
7	26016634	0.69	0
11	71630139	20.50	0
12	11703603	2000.50	0
13	38763519	42.42	0
14	91912936	0.00	1
15	12451583	999.99	0
16	58258096	0.00	0
17	96502135	9.99	0
18	71769370	0.00	0
19	28581821	0.00	1

## Customer/Deposit Account

**Brandon Jaroszczak**

### Table structure

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	customerNo 	int(11)			No	None		
<input type="checkbox"/>	2	accountID 	int(11)			No	None		


### Table data

customerNo	accountID
1	4
1	20
2	5
2	14
3	7
3	13
4	6
4	11
4	12
5	17
6	15
7	19
8	18
9	16

## Deposit Account History

**Brandon Jaroszczak**

### Table structure

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	transactionId 	int(10)			No	None		AUTO_INCREMENT
<input type="checkbox"/>	2	accountId	int(11)			No	None		
<input type="checkbox"/>	3	date	date			No	None		
<input type="checkbox"/>	4	transactionType	varchar(20)	utf8_general_ci		No	None		
<input type="checkbox"/>	5	transactionAmount	decimal(10,2)			No	None		
<input type="checkbox"/>	6	balance	decimal(10,2)			No	None		


### Table data

transactionId	accountId	date	transactionType	transactionAmount	balance
4	4	2025-02-13	Lodgement	1000.50	1000.50
5	5	2025-02-24	Lodgement	0.01	0.01
6	6	2025-02-24	Lodgement	12345.67	12345.67
7	7	2025-02-24	Lodgement	69420.00	69420.00
8	11	2025-02-26	Lodgement	20.50	20.50
9	12	2025-02-27	Lodgement	2000.50	2000.50
10	13	2025-03-03	Lodgement	42.42	42.42
11	13	2025-03-04	Lodgement	500.00	542.42
12	13	2025-03-04	Withdrawal	100.00	442.42
13	13	2025-03-05	Lodgement	50.00	492.42
14	14	2025-03-06	Lodgement	1234.56	1234.56
15	14	2025-03-06	Withdrawal	1234.56	0.00
16	13	2025-03-10	Lodgement	7.58	500.00
17	13	2025-03-10	Withdrawal	10.00	490.00
18	13	2025-03-11	Withdrawal	90.00	400.00
19	13	2025-04-14	Withdrawal	50.00	350.00
20	13	2025-04-16	Lodgement	300.00	650.00
21	13	2025-04-21	Lodgement	350.00	1000.00
22	13	2025-04-22	Withdrawal	100.00	900.00
23	15	2025-03-13	Lodgement	999.99	999.99
24	16	2025-03-14	Lodgement	0.01	0.01
25	17	2025-03-16	Lodgement	9.99	9.99

# Loan Account

Oliwier Jakubiec

## Table Structure

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	accountID 	int(11)			No	None		AUTO_INCREMENT
<input type="checkbox"/>	2	accountNumber	int(8)			No	None		
<input type="checkbox"/>	3	balance	decimal(10,2)			No	None		
<input type="checkbox"/>	4	loanAmount	decimal(10,2)			No	None		
<input type="checkbox"/>	5	loanStartDate	date			No	None		
<input type="checkbox"/>	6	loanTerm	int(11)			No	None		
<input type="checkbox"/>	7	loanMonthlyRepayments	decimal(10,2)			No	None		
<input type="checkbox"/>	8	deletedFlag	tinyint(1)			No	0		



## Table Data

accountID	accountNumber	balance	loanAmount	loanStartDate	loanTerm	loanMonthlyRepayments	deletedFlag
47	37003045	4000.00	15000.00	2024-12-11	6	2750.00	0
48	52515319	31666.64	50000.00	2024-03-20	24	2291.67	0
49	73263782	4200.00	4200.00	2024-12-30	12	385.00	0
50	73701354	60000.00	60000.00	2021-03-24	36	1833.33	0
51	37534054	1050.00	1050.00	2023-07-19	4	288.75	0
52	40446543	20000.00	20000.00	2024-10-30	20	1100.00	0
53	35304204	8500.00	8500.00	2025-03-20	8	1168.75	0
54	47988527	2900.00	2900.00	2025-03-20	5	638.00	0
55	20898450	1200.00	1200.00	2025-03-20	12	110.00	0

## Customer/ Loan Account

**Oliwier Jakubiec**

### Table Structure

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	<b>customerNo</b> 	int(8)			No	None		
<input type="checkbox"/>	2	<b>accountID</b> 	int(11)			No	None		


### Table Data

customerNo	accountID	1
1		47
2		48
3		49
5		50
6		51
7		52
8		53
9		54
10		55

# Loan Account History

Oliwier Jakubiec

## Table Structure

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	transactionID 	int(11)			No	None		AUTO_INCREMENT
<input type="checkbox"/>	2	accountID	int(11)			No	None		
<input type="checkbox"/>	3	transactionDate	date			No	None		
<input type="checkbox"/>	4	transactionType	varchar(20)	utf8_general_ci		No	None		
<input type="checkbox"/>	5	repaymentAmount	decimal(10,2)			No	None		
<input type="checkbox"/>	6	balance	decimal(10,2)			No	None		


## Table Data

transactionID	accountID	transactionDate	transactionType	repaymentAmount	balance
3	47	2024-12-11	Lodgement	2750.00	12250.00
4	47	2025-01-11	Lodgement	2750.00	9500.00
5	47	2025-02-11	Lodgement	2750.00	6750.00
6	47	2025-03-11	Lodgement	2750.00	4000.00
7	48	2024-03-20	Lodgement	2291.67	47708.33
8	48	2024-04-20	Lodgement	2291.67	45416.66
9	48	2024-05-20	Lodgement	2291.67	43124.99
10	48	2024-06-20	Lodgement	2291.67	40833.32
11	48	2024-07-20	Lodgement	2291.67	38541.65
12	48	2024-08-20	Lodgement	2291.67	36249.98
13	48	2024-09-20	Lodgement	2291.67	33958.31
14	48	2024-10-20	Lodgement	2291.67	31666.64

## Current Account

**Darian Byrne**

### Table Structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	<b>accountId</b> 	int(11)			No	None		AUTO_INCREMENT
2	<b>accountNumber</b>	int(8)			No	None		
3	<b>balance</b>	decimal(10,2)			No	0.00		
4	<b>overdraftLimit</b>	decimal(10,2)			No	None		
5	<b>deletedFlag</b>	tinyint(1)			No	0		

### Table Data



<b>accountId</b>	<b>accountNumber</b>	<b>balance</b>	<b>overdraftLimit</b>	<b>deletedFlag</b>
82	18883297	200.00	2500.00	0
83	28604583	50.00	3050.00	0
84	93200745	-1.00	100.00	0
85	55573485	17.99	2000.00	0
86	78045674	9000.00	9000.00	0
87	45976752	100.00	8750.24	0
88	96739409	100.00	2100.00	0
89	44366140	0.00	100.00	1
90	34510341	1.00	100.00	0
91	96473459	0.00	0.00	1
92	71976401	0.00	0.00	0




## Customer/Current Account

**Darian Byrne**

### Table Structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	<b>customerNo</b> 	int(11)			No	None		
2	<b>accountId</b> 	int(11)			No	None		

### Table Data

<b>customerNo</b>	<b>accountId</b>  1
1	82
2	83
3	84
5	85
6	86
7	87
8	88
9	89
10	90
3	91
11	92

## Current Account History

**Darian Byrne**

### Table Structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	transactionId	int(11)			No	None		AUTO_INCREMENT
2	accountId	int(11)			No	None		
3	date	date			No	None		
4	transactionType	varchar(20)	utf8_general_ci		No	None		
5	amount	decimal(10,2)			No	None		
6	balance	decimal(10,2)			No	None		

### Table Data

transactionId	accountId	date	transactionType	amount	balance
84	82	2025-03-20	Lodgement	5.00	5.00
85	83	2025-03-20	Lodgement	50.00	50.00
86	84	2025-03-20	Lodgement	1.00	1.00
87	85	2025-03-20	Lodgement	30.00	30.00
88	86	2025-03-20	Lodgement	9000.00	9000.00
89	87	2025-03-20	Lodgement	200.00	200.00
90	88	2025-03-20	Lodgement	100.00	100.00
91	89	2025-03-20	Lodgement	0.00	0.00
92	90	2025-03-20	Lodgement	1.00	1.00
93	87	2025-03-20	Withdrawal	25.00	175.00
94	87	2025-03-20	Withdrawal	25.00	150.00
95	87	2025-03-20	Withdrawal	5.00	145.00
96	87	2025-03-20	Withdrawal	10.00	135.00
97	87	2025-03-20	Withdrawal	15.00	120.00
98	87	2025-03-20	Withdrawal	1.00	119.00
99	87	2025-03-20	Withdrawal	2.00	117.00
100	87	2025-03-20	Withdrawal	2.00	114.00

# Customer

## Kyle Purcell

### Table Structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	customerNo	int(11)			No	None		AUTO_INCREMENT
2	firstName	varchar(20)	utf8_general_ci		No	None		
3	surName	varchar(20)	utf8_general_ci		No	None		
4	address	varchar(80)	utf8_general_ci		No	None		
5	eircode	varchar(10)	utf8_general_ci		No	None		
6	dateOfBirth	date			No	None		
7	telephoneNo	varchar(25)	utf8_general_ci		No	None		
8	occupation	varchar(40)	utf8_general_ci		No	None		
9	salary	decimal(10,2)			No	None		
10	emailAddress	varchar(30)	utf8_general_ci		No	None		
11	guarantorName	varchar(40)	utf8_general_ci		Yes	NULL		
12	deletedFlag	tinyint(1)			No	0		


### Table Data

customerNo	firstName	surName	address	eircode	dateOfBirth	telephoneNo	occupation	salary	emailAddress	guarantorName	deletedFlag
1	Will	Doyle	SETU Carlow Campus, Kilkenny Rd, Carlow	R93 V960	2003-05-15	0891234567	Student	0.00	student@setu.ie		0
2	Mark	Doyle	21 Tullow Place	R93 ABCD	1999-05-29	0854204209	Burnside Employee	22000.00	employee@burnside.ie		0
3	Harry	Doyle	54 The WillowsTullowCarlow	R65 A921	1999-05-29	+353 859941521	Assistant Manager	32000.00	john@email.com		0
4	Mary	Doyle	54 The Willows Tullow Carlow	R65 A921	1998-04-05	+353 830232205	Primary school teacher	44500.00	mary@yahoo.com	NULL	1
5	Mick	Doyle	Cork	R62 93AB	1956-10-11	0831257890	Pensioner	44500.00	mickdoyle@gmail.com		0
6	Sarah	Kelly	55 Yellow Road, Carlow	R11 A291	2000-01-31	13899845	Software Intern	14000.00	sk@email.com		0
7	John	Keogh	Kildare	R340000	2004-04-07	08999999999	UNEMPLOYED	0.00	johnk@email.ie		0
8	Mark	Gibson	Newbridge	R14029P	2007-12-15	0892234421	UNEMPLOYED	0.00	markgib@gibney.com		0
9	Filip	Kotacka	Carlow	G2187A1	2004-03-13	0899440221	UNEMPLOYEEED	0.00	filipkpt@email.com		0
10	Michael	Baker	CARLOW	R82F821	2005-09-10	0898925380	UNEMPLOYED	0.00	mikbak@email.com		1
11	Maximus	Cavalera	Dublin	R65 A921	1990-10-09	0866663321	Ginger	100000.00	max.cavalera@yahoo.com		0

# Rate Table

**Oliwier Jakubiec**

## Table Structure

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	rateType	 varchar(20)	utf8_general_ci		No	None		
<input type="checkbox"/>	2	rate	double			No	None		

## Table Data

rateType	rate
Interest	0.1

# Group Work

## index.php

```
<!-- Name: Group work (mostly done by Brandon Jaroszczak and Darian Byrne) -->
<!-- Month: February/March 2025 -->
<!-- Purpose: index page when first logging into https://c2p-bank.candept.com -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>SETU Bank</title>
    <link rel="stylesheet" href="mainMenu.css">
    <?php require('head.html') ?>
</head>
<body>
    <?php require($_SERVER["DOCUMENT_ROOT"] . '/sideMenu.html'); ?>
    <main>
        <div id="mainmenu">
            <h1>Welcome to SETU Bank</h1>
            <p>A full stack web development project built using frontend and backend
technologies such as:</p>
            <ul>
                <li>Frontend: HTML, CSS, JavaScript</li>
                <li>Backend: PHP, MySQL</li>
            </ul>
            <p>Made for the Software Development course in SETU Carlow as part of the Web
Development module in 2nd year</p>
            <h3>The authors:</h3>
            <ul>
                <li>Brandon Jaroszczak</li>
                <li>Oliwier Jakubiec</li>
                <li>Darian Byrne</li>
                <li>Kyle Purcell</li>
            </ul>
        </div>
    </main>
</body>
</html>
```

## db.inc.php

```
<!-- Name: Group work -->
<!-- Purpose: DB inc file to connect to database used by all php pages -->
<?php
$hostname = "localhost";
$username = "bankDB";
$password = "BankSecure1*";
$dbname = "bankDB";
$con = mysqli_connect($hostname, $username, $password, $dbname);

if (!$con) {
    die("Failed to connect to MySQL: " . mysqli_connect_error());
}
```

## sideMenu.html

```
<nav class="sidenav">
  <!-- For the nav element and it's contents ONLY -->
  <!-- Authors: entire group -->
  <!-- Purpose: menu navigation for entire project -->
  <h2><a href="/"></a></h2>
  <ul>
    <li><a href="/kyle/lodgements.html.php">Lodgements</a></li>
    <li><a href="/darian/withdrawals/">Withdrawals</a></li>
    <li class="dropdown">
      <button>Customer File Maintenance<div class="material-symbols-
outlined">keyboard_arrow_down</div></button>
      <ul>
        <li><a href="/kyle/add-customer.html.php">Add a new customer</a></li>
        <li><a href="/kyle/delete-customer.html.php">Delete a customer</a></li>
        <li><a href="/kyle/amend-view-customer.html.php">Amend/View a
customer</a></li>
      </ul>
    </li>
    <li class="dropdown">
      <button>Account Maintenance<div class="material-symbols-
outlined">keyboard_arrow_down</div></button>
      <ul>
        <li class="dropdown">
          <button>Deposit Account<div class="material-symbols-
outlined">keyboard_arrow_down</div></button>
          <ul class="leveltwo">
            <li><a href="/brandon/open-deposit-account/">Open an
account</a></li>
            <li><a href="/brandon/close-deposit-account/">Close an
account</a></li>
            <li><a href="/brandon/view-deposit-account/">View an
account</a></li>
          </ul>
        </li>
        <li class="dropdown">
          <button>Loan Account<div class="material-symbols-
outlined">keyboard_arrow_down</div></button>
          <ul class="leveltwo">
            <li><a href="/oliwier/open-loan-account/">Open an account</a></li>
            <li><a href="/oliwier/close-loan-account/">Close an account</a></li>
            <li><a href="/oliwier/amend-loan-account/">Amend/View an
account</a></li>
          </ul>
        </li>
        <li class="dropdown">
          <button>Current Account<div class="material-symbols-
outlined">keyboard_arrow_down</div></button>
          <ul class="leveltwo">
            <li><a href="/darian/account-maintenance/current-account/open/">Open
an account</a></li>
            <li><a href="/darian/account-maintenance/current-
account/close/">Close an account</a></li>
            <li><a href="/darian/account-maintenance/current-account/amend-
view/">Amend/View an account</a></li>
          </ul>
        </li>
      </ul>
    </li>
  </ul>
</nav>
```

```

        <button>Management Menu<div class="material-symbols-
outlined">keyboard_arrow_down</div></button>
        <ul>
            <li><a href="/under_construction.php">Charge interest on overdrawn current
accounts</a></li>
            <li><a href="/under_construction.php">Calculate interest on deposit
accounts</a></li>
            <li><a href="/under_construction.php">Calculate interest on current
accounts</a></li>
            <li><a href="/under_construction.php">Charge rate of interests for deposit
accounts</a></li>
            <li><a href="/under_construction.php">Charge rate of interests for loan
accounts</a></li>
            <li><a href="/under_construction.php">Charge rate of interests for current
accounts</a></li>
        </ul>
    </li>
    <li class="dropdown">
        <button>Quotes<div class="material-symbols-
outlined">keyboard_arrow_down</div></button>
        <ul>
            <li><a href="/under_construction.php">Quote loan repayments</a></li>
            <li><a href="/under_construction.php">Quote deposit rate</a></li>
            <li><a href="/under_construction.php">Quote loan rate</a></li>
            <li><a href="/under_construction.php">Quote current account rate</a></li>
        </ul>
    </li>
    <li class="dropdown">
        <button>Reports<div class="material-symbols-
outlined">keyboard_arrow_down</div></button>
        <ul>
            <li><a href="/brandon/deposit-account-history/">Deposit account
history</a></li>
            <li><a href="/under_construction.php">Loan account history</a></li>
            <li><a href="/under_construction.php">Current account history</a></li>
            <li><a href="/under_construction.php">Customer report</a></li>
            <li><a href="/under_construction.php">Current account interest
report</a></li>
            <li><a href="/olwier/account-report/">Account report</a></li>
        </ul>
    </li>
    <li><a href="/under_construction.php">Change password</a></li>
</ul>
</nav>
<script src="/dropdownScript.js"></script>

```

## dropdownScript.js

```
// Authors: group work (Brandon Jaroszczak and Darian Byrne)
// First half entirely done by Brandon Jaroszczak (refactored and improved from original
non-working code by Kyle Purcell)
// Second half entirely done by Darian Byrne
// Purpose: javascript for the dropdown menu animations and related functions

// This section done by Brandon Jaroszczak with help from Kyle Purcell
// Gets all uls and dropdowns
const uls = document.querySelectorAll(".dropdown > ul");
const dropdowns = document.querySelectorAll(".dropdown");

// For each ul make it hidden
uls.forEach((ul) => {
  ul.style.maxHeight = '0px';
  ul.classList.toggle("hidden");
});

// global leveltwos variable
let leveltwos = 0;

// for each dropdown button run this function
dropdowns.forEach((dropdown) => {
  // expanded = false
  let expanded = false;
  // add an onclick event listener to each dropdown button
  dropdown.addEventListener("click", (event) => {
    // Prevent event from bubbling up and affecting parent dropdowns
    event.stopPropagation();

    // get does this dropdown contain or is this dropdown a level2
    const l2 = dropdown.querySelector(".leveltwo");
    if (l2 != null) {
      // if level2 dropdowns found increase or decrease amount of them showing by
checking is it expanded or not
      leveltwos += expanded ? -1 : 1;
      // change the parent dropdown height to accomodate for the extra height of the
level2 dropdown
      l2.parentElement.parentElement.style.maxHeight = l2.scrollHeight * leveltwos +
'px';
    }

    // get the ul element of the currently clicked dropdown
    const ul = dropdown.querySelector("ul");

    // if it's not expanded, then expand it
    if (!expanded) {
      // get the total height of the elements and apply it as the ul maxHeight
      ul.style.maxHeight = dropdown.querySelector("ul").scrollHeight + 'px';

      // wait for the animation to finish to prevent visual glitches
      ul.addEventListener("transitionend", () => {
        ul.classList.toggle("hidden");
      }, { once: true });
    } else {
      // if it's expanded, then hide it
      ul.style.maxHeight = '0px';
      ul.classList.toggle("hidden");
    }
    // toggle the expanded variable
    expanded = !expanded;
  });
});
```



```

        // get the button arrow and toggle it up or down facing
        dropdown.querySelector(".material-symbols-outlined").classList.toggle("arrow");
    });
});

// This section done by Darian Byrne
window.addEventListener("load", () => {
    const sidenav = document.querySelector(".sidenav");
    const anchors = sidenav.querySelectorAll("a");

    // loops through every anchor on the sidenav
    let i = 0;
    // checks if the href of the anchor is the same as the current page
    // continue looping if it's not
    while (i < anchors.length && (window.location.href !== anchors[i].href)) {
        i++
    }
    // if we got to the end of all the anchors, return because there is no matching href
    if (i >= anchors.length) return;

    // adds the active class
    anchors[i].classList.add("active");

    // continues to expand the dropdown for it
    const dropdown = anchors[i].parentElement.parentElement.parentElement;
    // checks if it is a dropdown
    if (dropdown.classList.contains("dropdown")) {
        // continues to expand the double dropdown for it
        const doubleDropdown = dropdown.parentElement.parentElement;
        // checks if it is a double dropdown
        if (doubleDropdown.classList.contains("dropdown")) {
            // expand the double dropdown
            doubleDropdown.click();
        }
        // expand the dropdown
        dropdown.click();
    }
});

```

## head.html

```

// Authors: group work
<link rel="icon" type="image/x-icon" href="/logo.svg">
<link rel="stylesheet" href="/commonStyles.css">
<link rel="stylesheet"
href="https://fonts.googleapis.com/css2?family=Material+Symbols+Outlined:opsz,wght,FILL,GRAD
@20..48,100..700,0..1,-50..200&icon_names=keyboard_arrow_down" />
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Poppins:ital,wght@0,100;0,200;0,300;0,400;0,5
00;0,600;0,700;0,800;0,900;1,100;1,200;1,300;1,400;1,500;1,600;1,700;1,800;1,900&display=swa
p" rel="stylesheet">

```

## **commonStyles.css**

/\* Names: Kyle Purcell, Brandon Jaroszczak, Darian Byrne

Note: this page was made about 45% Kyle, 45% Brandon, 10% Darian

Due to the very mixed contributions it is impossible to determine exactly who contributed to which line of code

Month: February/March 2025

Purpose: Common CSS styles used by the sidemenu and every webpage in the project \*/

/\* CSS constants \*/

```
:root {
  --sidebar-bg-color: #78569F;
  --content-bg-color: #EED7FB;
  --content-border-color: #702e94;
}
```

/\* Style every element \*/

```
* {
  box-sizing: border-box;
  margin: 0;
  padding: 0;
  font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
  font-size: 1rem;
}
```

/\* Style HTML and body with a height of 100 \*/

```
html, body {
  height: 100%;
}
```

/\* Style main body layout \*/

```
body {
  display: grid;
  grid-template-columns: auto 4fr;
}
```

/\* Style all elements in sidenav \*/

```
.sidenav * {
  font-family: 'poppins';
  color: white;
  text-decoration: none;
}
```

/\* Style the sidenav itself \*/

```
.sidenav {
  width: 330px;
  display: flex;
  flex-direction: column;
  background-color: var(--sidebar-bg-color);
  padding-bottom: 20px;
}
```

/\* Style all elements in sidenav \*/

```
.sidenav ul {
  padding: 0px 20px 0px 20px;
}
```

/\* Style all h2 in sidenav \*/

```
.sidenav h2 {
  text-align: center;
  padding: 30px 0px 10px 0px;
}
```

/\* Style all buttons in sidenav \*/

```

.sidenav button {
    background-color: var(--sidebar-bg-color);
    border: none;
    font-weight: bold;
    display: flex;
    justify-content: space-between;
}
/* Style all divs inside of all buttons in sidenav */
.sidenav button > div{
    font-weight: bold;
}
/* Style the hover inside of sidenav buttons */
.sidenav button:hover {
    cursor: pointer;
    opacity: 0.8;
}
/* Style all li elements in sidenav */
.sidenav li {
    padding-top: 20px;
    display: flex;
}
/* Style all links in sidenav */
.sidenav > ul > li > a {
    font-weight: bold;
}
/* Style all li with class dropdown */
li.dropdown {
    flex-direction: column;
}
/* Style the imported arrow element class */
.arrow {
    transform: rotate(180deg);
}
/* Style the imported arrow element */
.material-symbols-outlined {
    transition-duration: 0.5s;
}
/* Style the imported arrow element hover */
.material-symbols-outlined:hover {
    cursor: pointer;
}
/* Style a elements that are active */
a.active {
    color: #250066
}
/* Style all a elements when hovered on */
a:hover {
    opacity: 0.8;
}
/* Style all hidden class uls inside of dropdown class elements */
.dropdown ul.hidden {
    overflow: hidden;
    transition: max-height 0.5s ease-in-out;
    transition-behavior: allow-discrete;
}
/* Style all uls inside of dropdown class elements */
.dropdown ul{
    transition: max-height 0.5s ease-in-out;
    transition-behavior: allow-discrete;
}

/* Style h1 */

```

```

h1 {
  text-align: center;
  font-size: 2.5em;
  margin: 20px 0;
}

/* Style all forms that are not class close-window */
form:not(.close-window) {
  margin-left: auto;
  margin-right: auto;
  min-width: 600px;
  width: 60%;
  max-width: 1000px;
}
/* Style the inputbox class */
.inputbox {
  display: flex;
  padding: 5px 10px;
}
/* Style all labels in the inputbox class */
.inputbox > label {
  font-size: 1.4em;
  width: 200px;
}
/* Style all inputs and selects in the inputbox class */
.inputbox > input, select {
  flex-grow: 1;
  margin-left: 20px;
  border: 1px solid gray;
  border-radius: 4px;
  padding: 0px 10px;
  outline: none;
}
/* Style all inputs and selects focus in the inputbox class */
.inputbox > input:focus, select:focus {
  outline: solid black 1px;
}
/* Style all h2 elements in form */
form > h2 {
  font-size: 1.6em;
  text-align: center;
  margin: 10px 0px;
}
/* Style elements with the buttons class */
.buttons {
  display: flex;
  justify-content: space-evenly;
  margin-bottom: 10px;
}
/* Style all inputs inside the buttons class element */
.buttons > input {
  padding: 4px 40px;
  border: 1px solid gray;
  border-radius: 4px;
}

```

## **mainMenu.css**


```
/* Author: Brandon Jaroszczak */
/* Purpose: style just the main menu CSS */
div#mainmenu {
    background-color: var(--content-bg-color);
    border: solid var(--content-border-color) 2px;
    border-radius: 40px;
    margin-top: 30px;
    margin-left: auto;
    margin-right: auto;
    padding: 10px;
    padding-bottom: 30px;
    min-width: 840px;
    width: 60%;
    max-width: 1000px;
    text-align: center;
}

div#mainmenu h3 {
    padding-block: 4px;
    font-size: 1.4em;
}

div#mainmenu * {
    list-style: none;
}
```

# Individual work (Brandon Jaroszczak)

Add screen



Lodgements

Withdrawals

Customer File Maintenance

Account Maintenance

Deposit Account

Open an account

Close an account

View an account

Loan Account

Current Account

Management Menu

Quotes

Reports

Change password

Open a deposit account

Choose a customer:

Sarah Kelly

Customer number:

6

Check customer details

Customer name:

Sarah Kelly

Address:

55 Yellow Road, Carlow

Eircode:

R11 A291

Date of birth:

31/01/2000

Confirm details

Generated account no:

14989259

Opening balance:

500.00

Create account

Cancel

## index.php:

```
<!-- Name: Brandon Jaroszczak -->
<!-- Student ID: C00296052 -->
<!-- Month: February 2025 -->
<!-- Purpose: main HTML page for add deposit account -->
<?php session_start(); ?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Open Deposit Account</title>
    <!-- Common stylesheets imported with php -->
    <?php require('../../head.html') ?>
    <!-- Stylesheets and script for this page -->
    <link rel="stylesheet" href="../brandonStyles.css">
    <script src="./script.js"></script>
</head>
<!-- Onload used to enable/disable form fields based on the current state of the webpage -->
<body onload="toggleInputs()">
    <!-- Import sidemenu using php -->
    <?php require('../../sideMenu.html'); ?>
    <main>
        <!-- Form 1/2 for customer details -->
        <!-- Fields with ISSET are set using php from data gathered from session variables -
-->
        <form action="processForm.php" method="post" onsubmit="return confirmSubmit()"
class="upperForm">
            <h1>Open a deposit account</h1>
            <div class="inputbox">
                <label>Choose a customer:</label>
                <!-- Dropdown box added with php -->
                <?php require('../dropdownBox.php') ?>
            </div>
            <!-- Field to manually input a customer number with validation only digits are
allowed -->
            <div class="inputbox">
                <label for="number">Customer number:</label>
                <input type="text" name="number" id="number" required pattern="[0-9]+"
title="Must enter a whole number" value="<?php if (ISSET($_SESSION['number'])) echo
$_SESSION['number'] ?>"/>
            </div>
            <!-- Submit button for manually checking customer numbers -->
            <div class="buttons">
                <input type="submit" value="Check customer details"
id="chooseCustomerButton" name="checkDetails">
            </div>
            <!-- Form fields to be automatically filled in with PHP or javascript -->
            <div class="inputbox">
                <label for="name">Customer name:</label>
                <input type="text" name="name" id="name" readonly required value="<?php if
(ISSET($_SESSION['name'])) echo $_SESSION['name'] ?>" title="Please choose a customer by
name or id above"/>
            </div>
            <div class="inputbox">
                <label for="address">Address:</label>
                <input type="text" name="address" id="address" readonly required
value="<?php if (ISSET($_SESSION['address'])) echo $_SESSION['address'] ?>"/>
            </div>
            <div class="inputbox">
                <label for="eircode">Eircode:</label>
```

```

        <input type="text" name="eircode" id="eircode" readonly required
value="<?php if (ISSET($_SESSION['eircode'])) echo $_SESSION['eircode'] ?>"/>
    </div>
    <div class="inputbox">
        <label for="dob">Date of birth:</label>
        <input type="date" name="dob" id="dob" readonly required value="<?php if
(ISSET($_SESSION['dob'])) echo $_SESSION['dob'] ?>"/>
    </div>
    <div class="buttons">
        <!-- Submit button to confirm customer details to continue -->
        <input type="submit" value="Confirm details" id="confirmCustomerButton"
name="confirmDetails">
    </div>
</form>
<!-- Form 2/2 for creating a deposit account -->
<form action="addCustomer.php" method="post" onsubmit="return finalCheck()"
class="lowerForm" id="lowerForm">
    <div class="inputbox">
        <label for="accNo">Generated account no:</label>
        <input type="text" name="accNo" id="accNo" readonly required value="<?php if
(ISSET($_SESSION['accNo'])) echo $_SESSION['accNo'] ?>" title="Please confirm customer
details to generate an account no"/>
    </div>
    <div class="inputbox">
        <label for="balance">Opening balance:</label>
        <!-- Opening balance can only be a numerical value with exactly 2 decimal
places -->
        <input type="text" name="balance" id="balance" disabled required
pattern="[0-9]+[.][0-9]{2}" title="Number must match format XX.XX"/>
    </div>
    <div class="buttons">
        <!-- Submit button for creating new deposit account -->
        <input type="submit" value="Create account" id="submitCustomer"
name="submitCustomer" disabled>
        <!-- Reset button to reset all progress and clear all fields -->
        <input type="reset" value="Cancel" id="clearButton" disabled
onclick="resetPage()">
    </div>
</form>
<!-- Error message to be displayed if manually entered customer ID does not exist --
>
<?php
if (!ISSET($_SESSION['name']) and ISSET($_SESSION['number'])) {
    echo '<p id="errorMessage">No record found for customer id: ' .
$_SESSION['number'] . '<br>Please try again!</p>';
    session_destroy();
}??>
</main>
</body>
</html>

```



## processForm.php

```
<!-- Name: Brandon Jaroszczak -->
<!-- Student ID: C00296052 -->
<!-- Month: February 2025 -->
<!-- Purpose: PHP script that is run when form 1/2 is submitted in open deposit account -->
<?php // Start session and import DB connection
    session_start();
    require '../db.inc.php';
    date_default_timezone_set("UTC");
    // Select all non deleted customers with a passed in customer number
    $sql = "SELECT * FROM Customer WHERE customerNo='".$$_POST['number'] . "' AND
deletedFlag='0'";
    if (!$result = mysqli_query($con, $sql)) {
        die('Error in querying the database ' . mysqli_error($con));
    }
    $rowcount = mysqli_affected_rows($con);
    // Set session number to input
    $_SESSION['number'] = $_POST['number'];
    // If a customer was found set session variables
    if ($rowcount == 1) {
        $row = mysqli_fetch_array($result);
        $_SESSION['name'] = $row['firstName'] . " " . $row['surName'];
        $_SESSION['address'] = $row['address'];
        $_SESSION['eircode'] = $row['eircode'];
        $_SESSION['dob'] = $row['dateOfBirth'];
    } else if ($rowcount == 0) {
        // If a customer was not found redirect back to previous page where error will be displayed
        unset ($_SESSION['name']);
        unset ($_SESSION['address']);
        unset ($_SESSION['eircode']);
        unset ($_SESSION['dob']);
        // Close and redirect back to page if customer details are invalid or were modified
        before accepting customer details
        mysqli_close($con);
        header('Location: ./');
    }
    // If the "Confirm Details" button was pressed run this portion of the script
    if (isset($_POST['confirmDetails'])) {
        $valid = false;
        while (!$valid) {
            // generate a random 8 digit account number
            $accountNo = rand(10000000, 99999999);
            // Select the accountNumber column from all 3 types of accounts database tables
            $sql = "SELECT accountNumber FROM `Deposit Account` WHERE accountNumber=" .
$accountNo . " UNION SELECT accountNumber FROM `Loan Account` WHERE accountNumber=" .
$accountNo . " UNION SELECT accountNumber FROM `Current Account` WHERE accountNumber=" .
$accountNo;
            if (!$result = mysqli_query($con, $sql)) {
                die('Error in querying the database ' . mysqli_error($con));
            }
            // If the randomly generated account number is not present in any table accept
the account number, otherwise loop and try again
            if (mysqli_affected_rows($con) == 0) {
                $valid = true;
                $_SESSION['accNo'] = $accountNo;
            }
        }
    }
    // Close and redirect back to page
    mysqli_close($con);
    header('Location: ./');
```

## **addCustomer.php**

```
<!-- Name: Brandon Jaroszczak -->
<!-- Student ID: C00296052 -->
<!-- Month: February 2025 -->
<!-- Purpose: PHP script that is run when form 2/2 is submitted in open deposit account -->
<?php // Start session and load in DB connection
    session_start();
    require '../db.inc.php';
    date_default_timezone_set("UTC");
    // If the "Create deposit account" button was clicked to submit the form
    if (isset($_POST['submitCustomer'])) {
        // Insert new deposit account into DB
        $sql = "INSERT INTO `Deposit Account` (`accountNumber`, `balance`, `deletedFlag`)
VALUES (`$_POST[accNo]`, `$_POST[balance]`, '0')";
        if (!mysqli_query($con, $sql)) {
            die ("An error in the SQL query: " . mysqli_error($con));
        }
        // Retrieve the accountID primary key from database from the account that was just added
        $sql = "SELECT accountID FROM `Deposit Account` WHERE
accountNumber='$_POST[accNo]'";
        if (!$result = mysqli_query($con, $sql)) {
            die('Error in querying the database ' . mysqli_error($con));
        }
        $row = mysqli_fetch_array($result);
        // Store the account ID
        $accID = $row['accountID'];
        // Insert new deposit account linked to existing customer into this table, this
allows a single customer to have multiple accounts
        $sql = "INSERT INTO `Customer/Deposit Account` (`customerNo`, `accountID`) VALUES
('$_SESSION[number]', '$accID')";
        if (!mysqli_query($con, $sql)) {
            die ("An error in the SQL query: " . mysqli_error($con));
        }
        // Create a new date object with no parameters, this makes it the current date+ time
        $date = date_create();
        // Format the date so its compatible with the database
        $date = date_format($date, 'Y-m-d');
        // Insert opening account as a lodgement transaction into the transactions table
        $sql = "INSERT INTO `Deposit Account History` (`accountId`, `date`,
`transactionType`, `transactionAmount`, `balance`) VALUES ('$accID', '$date', 'Lodgement',
'$_POST[balance]', '$_POST[balance]')";
        if (!mysqli_query($con, $sql)) {
            die ("An error in the SQL query: " . mysqli_error($con));
        }
        // Print confirmation message
        echo "Deposit account opened successfully";
    } else {
        // If the reset button was clicked, the form is submitted using javascript and it
goes straight here
        // Destroy the session clearing all fields and generated account numbers
        session_destroy();
        // Redirect back to previous page
        header('Location: ../');
    }
    // Close connection and destroy session, this data is no longer needed
    mysqli_close($con);
    session_destroy();
?>
<!-- Include a back button to return to previous page -->
<form action="..">
    <input type="submit" value="Return to previous page"/>
</form>
```

## dropdownBox.php

```
<!-- Name: Brandon Jaroszczak -->
<!-- Student ID: C00296052 -->
<!-- Month: February 2025 -->
<!-- Purpose: Dropdown box generated from contents of database table -->
<?php
    // load session and DB connect file
    session_start();
    require '../db.inc.php'; // database connection
    date_default_timezone_set('UTC');

    // select all customers that are not deleted
    $sql = "SELECT * FROM Customer WHERE DeletedFlag=0";

    if (!$result = mysqli_query($con, $sql)) {
        die ('Error in querying the database ' . mysqli_error($con));
    }

    // if the value of selected customer is not null then store it in the variable,
    otherwise store empty string
    // ?? means if $_SESSION is null or doesn't exist then result will be ''
    $selectedCustomer = $_SESSION['number'] ?? ''; // Retrieve stored number or empty string
    echo "<select name='listbox' id='listbox' onclick='populate()'>";

    // load in values from database and into the select dropdown
    while ($row = mysqli_fetch_array($result)) {
        $customerNo = $row['customerNo'];
        $fullName = $row['firstName'] . " " . $row['surName'];
        $address = $row['address'];
        $eircode = $row['eircode'];
        $dob = date_create($row['dateOfBirth']);
        $dob = date_format($dob, "Y-m-d");
        $allText = "$customerNo ->$fullName ->$address ->$eircode ->$dob"; // -> has to be used
        // as addresses may contain a , inside them breaking the string

        // Check if the current customer should be selected
        // If both statements are true then use the value beside the ? otherwise use the
        value beside : (ternary operator)
        $selected = ($customerNo == $selectedCustomer) ? "selected" : "";

        echo "<option value='$allText' $selected>$fullName</option>";
    }
    echo "</select>";
    // close connection
    mysqli_close($con);
?>
```

## script.js

```
/* Name: Brandon Jaroszczak
Student ID: C00296052
Month: February 2025
Purpose: javascript functions used by the main HTML page for opening a new deposit account*/
// populates all relevant form fields with data from the dropdown menu
function populate() {
    // get the value from the dropdown menu and put them into the fields
    const sel = document.getElementById("listbox");
    const result = sel.options[sel.selectedIndex].value;
    const personDetails = result.split(' - '); // - has to be used as addresses may contain a
, inside them breaking the string
    // populate the fields
    document.getElementById("number").value = personDetails[0];
    document.getElementById("name").value = personDetails[1];
    document.getElementById("address").value = personDetails[2];
    document.getElementById("eircode").value = personDetails[3];
    document.getElementById("dob").value = personDetails[4];
}
// Function run when the "Confirm details" button is pressed
function confirmSubmit() {
    if (document.activeElement.value === "Confirm details") {
        const name = document.getElementById("name").value;
        const address = document.getElementById("address").value;
        const eircode = document.getElementById("eircode").value;
        const dob = document.getElementById("dob").value;
        // If form fields are not filled in (i.e. a customer was not selected, don't submit
the form)
        if (!name || !address || !eircode || !dob) { return false; }
    }
    // Submit the form
    return true;
}
// Function ran when the page is loaded, if the accountNo value is generated this means that
the customer is selected and locks the selection fields and dropdown to prevent tampering
function toggleInputs() {
    // get the value of accNo field
    const accNo = document.getElementById("accNo").value;
    // If field has something in it (generated account number), lock/unlock the relevant
fields, dropdown and buttons
    if (accNo) {
        document.getElementById("balance").disabled = false;
        document.getElementById("listbox").disabled = true;
        document.getElementById("chooseCustomerButton").disabled = true;
        document.getElementById("confirmCustomerButton").disabled = true;
        document.getElementById("number").readOnly = true;
        document.getElementById("submitCustomer").disabled = false;
        document.getElementById("clearButton").disabled = false;
    }
}
// asks the user for confirmation for creating a new account
function finalCheck() {
    return confirm("Are you sure you want to create a new deposit account?");
}
// asks the user for confirmation for resetting the form
function resetPage() {
    if (confirm("Are you sure you want to cancel creating an account?")) {
        // Submit the form with javascript to run session_destroy() in php later
        document.getElementById("lowerForm").submit();
    }
}
```

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View a deposit account

Choose an account:Harry Doyle: 38763519

Customer number:3

Account number:38763519

Check details

Customer name:Harry Doyle

Address:54 The WillowsTulowCarlow

Eircode:R65 A921

Date of birth:29/05/1999

Balance:492.42

Last 10 transactions

Date	Transaction Type	Transaction Amount	Balance
22-04-2025	Withdrawal	100.00	900.00
21-04-2025	Lodgement	350.00	1000.00
16-04-2025	Lodgement	300.00	650.00
14-04-2025	Withdrawal	50.00	350.00
11-03-2025	Withdrawal	90.00	400.00
10-03-2025	Withdrawal	10.00	490.00
10-03-2025	Lodgement	7.58	500.00
05-03-2025	Lodgement	50.00	492.42
04-03-2025	Withdrawal	100.00	442.42
04-03-2025	Lodgement	500.00	542.42

## index.php

```
<!-- Name: Brandon Jaroszczak -->
<!-- Student ID: C00296052 -->
<!-- Month: March 2025 -->
<!-- Purpose: main HTML page for view deposit account -->
<?php session_start(); ?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>View Deposit Account</title>
    <!-- Import head styles with PHP -->
    <?php require('.././head.html') ?>
    <!-- Styles and script for this page only -->
    <link rel="stylesheet" href="../brandonStyles.css">
    <script src="../script.js"></script>
</head>
<!-- When body is loaded run the populate() function -->
<body onload="populate()">
    <!-- Load the sidemenu using PHP -->
    <?php require('.././sideMenu.html'); ?>
    <main>
        <!-- Main form element -->
        <form action="processForm.php" method="post" id="customerDetailsForm">
            <h1>View a deposit account</h1>
            <div class="inputbox">
                <label>Choose an account:</label>
                <!-- Load the dropdown selection using PHP -->
                <?php require('../dropdownBox.php') ?>
            </div>
            <!-- 2 input fields with validation to manually enter the customer and account
numbers -->
            <div class="inputbox">
                <label for="custNumber">Customer number:</label>
                <input type="text" name="custNumber" id="custNumber" required pattern="[0-
9]+" title="Must enter a whole number" value="<?php if (ISSET($_SESSION['viewcustNumber']))
echo $_SESSION['viewcustNumber'] ?>"/>
            </div>
            <div class="inputbox">
                <label for="accNumber">Account number:</label>
                <input type="text" name="accNumber" id="accNumber" required pattern="[0-9]+"
title="Must enter a whole number" value="<?php if (ISSET($_SESSION['viewaccNumber'])) echo
$_SESSION['viewaccNumber'] ?>"/>
            </div>
            <div class="buttons">
                <!-- Submit button to check the details of the customer and view
transactions -->
                <input type="submit" value="Check details" id="chooseCustomerButton"
name="checkDetails">
            </div>
            <!-- Form fields to display customer details populated using PHP or javascript -
-->
            <div class="inputbox">
                <label for="name">Customer name:</label>
                <input type="text" name="name" id="name" readonly required value="<?php if
(ISSET($_SESSION['viewname'])) echo $_SESSION['viewname'] ?>"/>
            </div>
            <div class="inputbox">
                <label for="address">Address:</label>
```

```

        <input type="text" name="address" id="address" readonly required
value="<?php if (ISSET($_SESSION['viewaddress'])) echo $_SESSION['viewaddress'] ?>"/>
    </div>
    <div class="inputbox">
        <label for="eircode">Eircode:</label>
        <input type="text" name="eircode" id="eircode" readonly required
value="<?php if (ISSET($_SESSION['vieweircode'])) echo $_SESSION['vieweircode'] ?>"/>
    </div>
    <div class="inputbox">
        <label for="dob">Date of birth:</label>
        <input type="date" name="dob" id="dob" readonly required value="<?php if
(ISSET($_SESSION['viewdob'])) echo $_SESSION['viewdob'] ?>"/>
    </div>
    <div class="inputbox">
        <label for="balance">Balance:</label>
        <input type="text" name="balance" id="balance" readonly required
value="<?php if (ISSET($_SESSION['viewbalance'])) echo $_SESSION['viewbalance'] ?>"/>
    </div>
</form>
<?php
    // If manually entered customer/account details incorrect display error and
destroy session
    if (!ISSET($_SESSION['viewname']) and ISSET($_SESSION['viewcustNumber'])) {
        echo '<p id="errorMessage">No account found with customer no: '.
$_SESSION['viewcustNumber'] .' and account no: '. $_SESSION['viewaccNumber'] .'!<br>Please
try again!</p>';
        session_destroy();
    } else {
        // If viewname is set (i.e. form was submitted earlier) then run this script
        if (ISSET($_SESSION['viewname'])) {
            // import database connection
            require '../db.inc.php';
            date_default_timezone_set("UTC");

            // Query to select the accountID that corresponds to the account number
submitted earlier
            $sql = "SELECT accountID FROM `Deposit Account` WHERE
accountNumber='$_SESSION[viewaccNumber]'";
            if (!$result = mysqli_query($con, $sql)) {
                die('Error in querying the database ' . mysqli_error($con));
            }

            $row = mysqli_fetch_array($result);
            // store the account ID
            $accID = $row['accountID'];

            // Query to get the last 10 transactions from deposit account history in
descending order by date, then by transaction ID (if multiple in 1 day the higher
transaction ID was made later)
            $sql = "SELECT * FROM `Deposit Account History` WHERE accountID='$accID'
ORDER BY `Deposit Account History`.`date` DESC, transactionId DESC LIMIT 10";

            if (!$result = mysqli_query($con, $sql)) {
                die('Error in querying the database ' . mysqli_error($con));
            }
            // Display result table
            echo "<h2>Last 10 transactions</h2>";
            echo "<table><thead><tr><th>Date</th><th>Transaction
Type</th><th>Transaction Amount</th><th>Balance</th></tr></thead><tbody>";
            // display the results in the table
            while ($row = mysqli_fetch_array($result)) {
                $date = date_create($row['date']);

```

```

        $date = date_format($date,"d-m-Y");
        echo
        "<tr><td>".$date."</td><td>".$row['transactionType']."</td><td>".$row['transactionAmount']."
        </td><td>".$row['balance']."</td></tr>";
    }
    echo "</tbody></table>";
    // close connection and destroy session
    mysqli_close($con);
    session_destroy();
} else {
    // if viewname was not set (i.e. form wasn't yet submitted) then submit
the form with javascript with the first selected customer from dropdown
    ?>
    <script>submitForm();</script>
    <?php
    }
}
?>
</main>
</body>
</html>

```



## processForm.php

```
<!-- Name: Brandon Jaroszczak -->
<!-- Student ID: C00296052 -->
<!-- Month: March 2025 -->
<!-- Purpose: PHP script to be run when form is submitted in view deposit account -->
<?php
    // Load in session and DB connect file
    session_start();
    require '../db.inc.php';
    date_default_timezone_set("UTC");

    // Select all customers and their deposit accounts where neither are deleted and the
    customerNo and accountNumber match the entered details
    $sql = "SELECT firstName, surName, address, eircode, dateOfBirth, balance
    FROM (Customer INNER JOIN `Customer/Deposit Account` ON Customer.customerNo =
    `Customer/Deposit Account`.`customerNo`)
    INNER JOIN `Deposit Account` ON `Customer/Deposit Account`.`accountID` = `Deposit
    Account`.`accountID`
    WHERE Customer.deletedFlag=0 AND `Deposit Account`.`deletedFlag`=0
    AND Customer.customerNo='$_POST[custNumber]' AND accountNumber='$_POST[accNumber]';";

    if (!$result = mysqli_query($con, $sql)) {
        die('Error in querying the database ' . mysqli_error($con));
    }

    // get the rowcount
    $rowcount = mysqli_affected_rows($con);

    // store inputs in session variables
    $_SESSION['viewcustNumber'] = $_POST['custNumber'];
    $_SESSION['viewaccNumber'] = $_POST['accNumber'];

    // if customer and account found populate session variables
    if ($rowcount == 1) {
        $row = mysqli_fetch_array($result);
        $_SESSION['viewname'] = $row['firstName'] . " " . $row['surName'];
        $_SESSION['viewaddress'] = $row['address'];
        $_SESSION['vieweircode'] = $row['eircode'];
        $dob = date_create($row['dateOfBirth']);
        $dob = date_format($dob, "Y-m-d");
        $_SESSION['viewdob'] = $dob;
        $_SESSION['viewbalance'] = $row['balance'];
    } else if ($rowcount == 0) {
        // if customer and details not found unset session variables
        unset($_SESSION['viewname']);
        unset($_SESSION['viewaddress']);
        unset($_SESSION['vieweircode']);
        unset($_SESSION['viewdob']);
        unset($_SESSION['viewbalance']);
    }

    // close connection and redirect to main page
    mysqli_close($con);
    header('Location: ../');
?>
```

## dropdownBox.php

```
<!-- Name: Brandon Jaroszczak -->
<!-- Student ID: C00296052 -->
<!-- Month: March 2025 -->
<!-- Purpose: dropdown box for view deposit account -->
<?php
    // Load in session and DB connect file
    session_start();
    require '../db.inc.php'; // database connection
    date_default_timezone_set('UTC');

    // SQL query to select all non deleted customers and their non deleted deposit accounts
    $sql = "SELECT firstName, surName, address, eircode, dateOfBirth, Customer.customerNo,
accountNumber, balance
    FROM (Customer INNER JOIN `Customer/Deposit Account` ON Customer.customerNo =
`Customer/Deposit Account`.`customerNo`)
    INNER JOIN `Deposit Account` ON `Customer/Deposit Account`.`accountID` = `Deposit
Account`.`accountID`
    WHERE Customer.deletedFlag=0 AND `Deposit Account`.`deletedFlag`=0;";

    if (!$result = mysqli_query($con, $sql)) {
        die ('Error in querying the database ' . mysqli_error($con));
    }

    // if the value of selected customer/account is not null then store it in the variable,
    otherwise store empty string
    // ?? means if $_SESSION is null or doesn't exist then result will be ''
    $selectedCustomer = $_SESSION['viewcustNumber'] ?? ''; // Retrieve stored number or
    empty string
    $selectedAccount = $_SESSION['viewaccNumber'] ?? '';
    echo "<select name='listbox' id='listbox' onchange='submitForm()'>";

    // load in values from database and into the select dropdown
    while ($row = mysqli_fetch_array($result)) {
        $customerNo = $row['customerNo'];
        $fullName = $row['firstName'] . " " . $row['surName'];
        $address = $row['address'];
        $eircode = $row['eircode'];
        $dob = date_create($row['dateOfBirth']);
        $dob = date_format($dob, "Y-m-d");
        $accountNumber = $row['accountNumber'];
        $balance = $row['balance'];
        $allText = "$customerNo ->$fullName ->$address ->$eircode ->$dob ->$accountNumber
->$balance"; // -> has to be used as addresses may contain a , inside them breaking the string

        // Check if the current customer should be selected
        // If both statements are true then use the value beside the ? otherwise use the
        value beside : (ternary operator)
        $selected = (($customerNo == $selectedCustomer) && ($accountNumber ==
        $selectedAccount)) ? "selected" : "";

        echo "<option value='$allText' $selected>$fullName: $accountNumber</option>";
    }
    echo "</select>";
    // Close connection
    mysqli_close($con);
?>
```


## script.js

```
/* Name: Brandon Jaroszczak
Student ID: C00296052
Month: March 2025
Purpose: javascript functions used by the main HTML page for viewing a new deposit account
*/

// Populate the form fields with the data from the dropdown box
function populate() {
    // get the value from the dropdown menu and put them into the fields
    const sel = document.getElementById("listbox");
    const result = sel.options[sel.selectedIndex].value;
    const personDetails = result.split(' - '); // - has to be used as addresses may contain a
, inside them breaking the string
    // populate the fields
    document.getElementById("custNumber").value = personDetails[0];
    document.getElementById("name").value = personDetails[1];
    document.getElementById("address").value = personDetails[2];
    document.getElementById("eircode").value = personDetails[3];
    document.getElementById("dob").value = personDetails[4];
    document.getElementById("accNumber").value = personDetails[5];
    document.getElementById("balance").value = personDetails[6];
}

// When the dropdown value is changed populate fields and submit form using javascript to
load in last 10 transactions with PHP
function submitForm() {
    populate();
    document.getElementById('customerDetailsForm').submit();
}
```

# Delete screen



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Close a deposit account

Choose an account:

Mark Doyle: 48095563

Customer number:

2

Account number:

48095563

Check details

Customer name:

Mark Doyle

Address:

21 Tullow Place

Eircode:

R93 ABCD

Date of birth:

29/05/1999

Balance:

0.01

Account cannot be closed as its balance is not 0!  
Please withdraw any remaining funds and try again.

Close account

## index.php

```
<!-- Name: Brandon Jaroszczak -->
<!-- Student ID: C00296052 -->
<!-- Month: March 2025 -->
<!-- Purpose: main HTML page for close deposit account -->
<?php session_start(); ?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Close Deposit Account</title>
    <!-- Import head styles using PHP -->
    <?php require('.././head.html') ?>
    <!-- Styles and script used by this page -->
    <link rel="stylesheet" href="../brandonStyles.css">
    <script src="/script.js"></script>
</head>
<!-- Run the populate() function when page loads -->
<body onload="populate()">
    <!-- Load sidemenu using PHP -->
    <?php require('.././sideMenu.html'); ?>
    <main>
        <!-- Main form element -->
        <form action="processForm.php" method="post" id="customerDetailsForm"
onsubmit="return submitCheck()">
            <h1>Close a deposit account</h1>
            <div class="inputbox">
                <label>Choose an account:</label>
                <!-- Load in dropdown using PHP -->
                <?php require('../dropdownBox.php') ?>
            </div>
            <!-- 2 inputfields to manually enter customer and account numbers, with
validation to only allow digits -->
            <div class="inputbox">
                <label for="custNumber">Customer number:</label>
                <input type="text" name="custNumber" id="custNumber" required pattern="[0-
9]+" title="Must enter a whole number" value="<?php if (ISSET($_SESSION['closecustNumber']))
echo $_SESSION['closecustNumber'] ?>"/>
            </div>
            <div class="inputbox">
                <label for="accNumber">Account number:</label>
                <input type="text" name="accNumber" id="accNumber" required pattern="[0-9]+"
title="Must enter a whole number" value="<?php if (ISSET($_SESSION['closeaccNumber'])) echo
$_SESSION['closeaccNumber'] ?>"/>
            </div>
            <div class="buttons">
                <!-- Submit button to manually check customer details -->
                <input type="submit" value="Check details" id="chooseCustomerButton"
name="checkDetails">
            </div>
            <!-- Fields for the other customer details automatically populated with
javascript or PHP -->
            <div class="inputbox">
                <label for="name">Customer name:</label>
                <input type="text" name="name" id="name" readonly required value="<?php if
(ISSET($_SESSION['closename'])) echo $_SESSION['closename'] ?>"/>
            </div>
            <div class="inputbox">
                <label for="address">Address:</label>
```

```

        <input type="text" name="address" id="address" readonly required
value="<?php if (ISSET($_SESSION['closeaddress'])) echo $_SESSION['closeaddress'] ?>"/>
    </div>
    <div class="inputbox">
        <label for="eircode">Eircode:</label>
        <input type="text" name="eircode" id="eircode" readonly required
value="<?php if (ISSET($_SESSION['closeeircode'])) echo $_SESSION['closeeircode'] ?>"/>
    </div>
    <div class="inputbox">
        <label for="dob">Date of birth:</label>
        <input type="date" name="dob" id="dob" readonly required value="<?php if
(ISSET($_SESSION['closedob'])) echo $_SESSION['closedob'] ?>"/>
    </div>
    <div class="inputbox">
        <label for="balance">Balance:</label>
        <input type="text" name="balance" id="balance" readonly required
value="<?php if (ISSET($_SESSION['closebalance'])) echo $_SESSION['closebalance'] ?>"/>
    </div>
    <!-- p element used to store the "Balance is too high" message -->
    <p id="message"></p>
    <div class="buttons">
        <!-- Submit button to close the account, disabled by default unless balance
= 0 -->
        <input type="submit" value="Close account" id="deleteCustomer"
name="deleteCustomer" disabled>
    </div>
</form>
<!-- PHP to display error message if manually entered account details are incorrect
-->
<?php
    if (!ISSET($_SESSION['closename']) and ISSET($_SESSION['closecustNumber'])) {
        echo '<p id="errorMessage">No account found with customer no: ' .
$_SESSION['closecustNumber'] . ' and account no: ' . $_SESSION['closeaccNumber'] . '!'<br>Please
try again!</p>';
    }
    // Destroy session after displaying error
    session_destroy();
?>
</main>
</body>
</html>

```

## processForm.php

```
<!-- Name: Brandon Jaroszczak -->
<!-- Student ID: C00296052 -->
<!-- Month: March 2025 -->
<!-- Purpose: PHP script that's executed when the form in close deposit account is submitted
-->
<?php
    // Start session and import DB connect file
    session_start();
    require '../db.inc.php';
    date_default_timezone_set("UTC");

    // Select all customers and their deposit accounts where neither are deleted and the
    customerNo and accountNumber match the entered details
    $sql = "SELECT firstName, surName, address, eircode, dateOfBirth, balance
    FROM (Customer INNER JOIN `Customer/Deposit Account` ON Customer.customerNo =
    `Customer/Deposit Account`.`customerNo`)
    INNER JOIN `Deposit Account` ON `Customer/Deposit Account`.`accountID` = `Deposit
    Account`.`accountID`
    WHERE Customer.deletedFlag=0 AND `Deposit Account`.`deletedFlag`=0
    AND Customer.customerNo='$_POST[custNumber]' AND accountNumber='$_POST[accNumber]';

    if (!$result = mysqli_query($con, $sql)) {
        die('Error in querying the database ' . mysqli_error($con));
    }

    // get the rowcount
    $rowcount = mysqli_affected_rows($con);

    // store inputs in session variables
    $_SESSION['closecustNumber'] = $_POST['custNumber']; // for error message purposes
    $_SESSION['closeaccNumber'] = $_POST['accNumber'];

    // if customer and account found populate session variables
    if ($rowcount == 1) {
        $row = mysqli_fetch_array($result);
        $_SESSION['closeaname'] = $row['firstName'] . " " . $row['surName'];
        $_SESSION['closeaddress'] = $row['address'];
        $_SESSION['closeeircode'] = $row['eircode'];
        $dob = date_create($row['dateOfBirth']);
        $dob = date_format($dob, "Y-m-d");
        $_SESSION['closedob'] = $dob;
        $_SESSION['closebalance'] = $row['balance'];
    } else if ($rowcount == 0) {
        // if customer and details not found unset session variables
        unset($_SESSION['closeaname']);
        unset($_SESSION['closeaddress']);
        unset($_SESSION['closeeircode']);
        unset($_SESSION['closedob']);
        unset($_SESSION['closebalance']);
        // close and redirect to main page to display error
        mysqli_close($con);
        header('Location: ../');
    }

    // if the "Delete account" button was clicked then run the following script
    // the checks above were run to double check has the customer/account numbers been
    changed to invalid before clicking the delete button
    if (isset($_POST['deleteCustomer'])) {
        // Update the deleted flag in the relevant customer to 1 to mark the account as
        deleted
    }
}
```

```

        $sql = "UPDATE `Deposit Account` SET deletedFlag=1 WHERE
accountNumber='$_POST[accNumber]'";
        if (!$result = mysqli_query($con, $sql)) {
            die('Error in querying the database ' . mysqli_error($con));
        }
        // Close the connection
        mysqli_close($con);
        // Display confirmation message
        echo "Deposit account closed successfully!";
        ?>
        <!-- Display return button -->
        <form action="."/>
            <input type="submit" value="Return to previous page"/>
        </form>
        <?php
    } else {
        // If "Delete account" button wasn't clicked (i.e. the "Check details" button was
        clicked) then redirect back after checking details
        mysqli_close($con);
        header('Location: ./.');
    }
    ?>

```



## dropdownBox.php

```
<!-- Name: Brandon Jaroszczak -->
<!-- Student ID: C00296052 -->
<!-- Month: March 2025 -->
<!-- Purpose: dropdown box for close deposit account -->
<?php
    // Load in session and DB connect file
    session_start();
    require '../db.inc.php'; // database connection
    date_default_timezone_set('UTC');

    // SQL query to select all non deleted customers and their non deleted deposit accounts
    $sql = "SELECT firstName, surName, address, eircode, dateOfBirth, Customer.customerNo,
accountNumber, balance
    FROM (Customer INNER JOIN `Customer/Deposit Account` ON Customer.customerNo =
`Customer/Deposit Account`.`customerNo`)
    INNER JOIN `Deposit Account` ON `Customer/Deposit Account`.`accountID` = `Deposit
Account`.`accountID`
    WHERE Customer.deletedFlag=0 AND `Deposit Account`.`deletedFlag`=0;";

    if (!$result = mysqli_query($con, $sql)) {
        die ('Error in querying the database ' . mysqli_error($con));
    }

    // if the value of selected customer/account is not null then store it in the variable,
    otherwise store empty string
    // ?? means if $_SESSION is null or doesn't exist then result will be ''
    $selectedCustomer = $_SESSION['closecustNumber'] ?? ''; // Retrieve stored number or
empty string
    $selectedAccount = $_SESSION['closeaccNumber'] ?? '';
    echo "<select name='listbox' id='listbox' onchange='populate()'>";

    // load in values from database and into the select dropdown
    while ($row = mysqli_fetch_array($result)) {
        $customerNo = $row['customerNo'];
        $fullName = $row['firstName'] . " " . $row['surName'];
        $address = $row['address'];
        $eircode = $row['eircode'];
        $dob = date_create($row['dateOfBirth']);
        $dob = date_format($dob, "Y-m-d");
        $accountNumber = $row['accountNumber'];
        $balance = $row['balance'];
        $allText = "$customerNo ->$fullName ->$address ->$eircode ->$dob ->$accountNumber
->$balance"; // -> has to be used as addresses may contain a , inside them breaking the string

        // Check if the current customer should be selected
        // If both statements are true then use the value beside the ? otherwise use the
value beside : (ternary operator)
        $selected = (($customerNo == $selectedCustomer) && ($accountNumber ==
$selectedAccount)) ? "selected" : "";

        echo "<option value='$allText' $selected>$fullName: $accountNumber</option>";
    }
    echo "</select>";
    // Close connection
    mysqli_close($con);
?>
```

## **script.js**

```
/* Name: Brandon Jaroszczak
Student ID: C00296052
Month: March 2025
Purpose: javascript functions used by the main HTML page for closing a new deposit account
*/


// Populate the form fields with the data from the dropdown box
function populate() {
    // get the value from the dropdown menu and put them into the fields
    const sel = document.getElementById("listbox");
    const result = sel.options[sel.selectedIndex].value;
    const personDetails = result.split(' - '); // - has to be used as addresses may contain a
, inside them breaking the string
    // populate the fields
    document.getElementById("custNumber").value = personDetails[0];
    document.getElementById("name").value = personDetails[1];
    document.getElementById("address").value = personDetails[2];
    document.getElementById("eircode").value = personDetails[3];
    document.getElementById("dob").value = personDetails[4];
    document.getElementById("accNumber").value = personDetails[5];
    document.getElementById("balance").value = personDetails[6];

    // get the balance of the account and store it
    const value = parseFloat(document.getElementById("balance").value);

    // If balance is === 0 then display no message and unlock the "Delete account" button
    if (value === 0) {
        document.getElementById("message").innerHTML = "";
        document.getElementById("deleteCustomer").disabled = false;
    } else {
        // If balance is anything other than 0 then display a message and lock the "Delete
account" button
        document.getElementById("message").innerHTML = "Account cannot be closed as its
balance is not 0!<br>Please withdraw any remaining funds and try again."
        document.getElementById("deleteCustomer").disabled = true;
    }
}

// If the "Close account" button was clicked double check do you want to close the account
function submitCheck() {
    if (document.activeElement.value === "Close account") {
        return confirm("Are you sure you want to close this account?");
    } else {
        return true;
    }
}
```

# Deposit account history screen

Bank

Lodgements

Withdrawals

Customer File Maintenance

Account Maintenance

Management Menu

Quotes

Reports

Deposit account history

Loan account history

Current account history

Customer report

Current account interest report

Account report

Change password

Deposit account history

Choose an account:

Harry Doyle: 38763519

Customer number:

3

Account number:

38763519

Start date (optional):

10/03/2025

End date (optional):

11/03/2025

Customer name:

Harry Doyle

Check transactions

Transactions:

Date	Transaction Type	Transaction Amount	Balance
11-03-2025	Withdrawal	90.00	400.00
10-03-2025	Withdrawal	10.00	490.00
10-03-2025	Lodgement	7.58	500.00

## index.php

```
<!-- Name: Brandon Jaroszczak -->
<!-- Student ID: C00296052 -->
<!-- Month: March 2025 -->
<!-- Purpose: main HTML page for deposit account history -->
<?php session_start(); ?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Deposit Account History</title>
    <!-- Import head styles with PHP -->
    <?php require('.././head.html') ?>
    <!-- CSS and javascript used by this file only -->
    <link rel="stylesheet" href="../brandonStyles.css">
    <script src="/script.js"></script>
</head>
<!-- When body is loaded run the populate() function -->
<body onload="populate()">
    <!-- Load in sidemenu with PHP -->
    <?php require('.././sideMenu.html'); ?>
    <main>
        <!-- Main form -->
        <form action="processForm.php" method="post" id="customerDetailsForm"
onsubmit="return checkDates()">
            <h1>Deposit account history</h1>
            <div class="inputbox">
                <label>Choose an account:</label>
                <!-- Load in dropdown selection with PHP -->
                <?php require('../dropdownBox.php') ?>
            </div>
            <!-- 2 form fields with validation to manually enter customer/account numbers --
>
            <div class="inputbox">
                <label for="custNumber">Customer number:</label>
                <input type="text" name="custNumber" id="custNumber" required pattern="[0-
9]+" title="Must enter a whole number" value="<?php if
(ISSET($_SESSION['historycustNumber'])) echo $_SESSION['historycustNumber'] ?>"/>
            </div>
            <div class="inputbox">
                <label for="accNumber">Account number:</label>
                <input type="text" name="accNumber" id="accNumber" required pattern="[0-9]+"
title="Must enter a whole number" value="<?php if (ISSET($_SESSION['historyaccNumber']))
echo $_SESSION['historyaccNumber'] ?>"/>
            </div>
            <!-- Start date and end date fields if the user wishes to optionally choose a
start date, end date or both -->
            <div class="inputbox">
                <label for="startDate">Start date (optional):</label>
                <input type="date" name="startDate" id="startDate" value="<?php if
(ISSET($_SESSION['startDate'])) echo $_SESSION['startDate'] ?>"/>
            </div>
            <div class="inputbox">
                <label for="endDate">End date (optional):</label>
                <input type="date" name="endDate" id="endDate" value="<?php if
(ISSET($_SESSION['endDate'])) echo $_SESSION['endDate'] ?>"/>
            </div>
            <!-- Customer name field to be populated with PHP or javascript -->
            <div class="inputbox">
                <label for="name">Customer name:</label>
```

```

        <input type="text" name="name" id="name" readonly value="<?php if
(ISSET($_SESSION['endDate'])) echo $_SESSION['endDate'] ?>"/>
    </div>
    <!-- Submit button to submit form -->
    <div class="buttons">
        <input type="submit" value="Check transactions" id="chooseCustomerButton"
name="checkDetails">
    </div>
</form>
<?php
    // if manually entered customer/account numbers are incorrect display error
message and destroy session
    if (!ISSET($_SESSION['historyname']) and ISSET($_SESSION['historycustNumber']))
{
        echo '<p id="errorMessage">No account found with customer no: '.
$_SESSION['historycustNumber'] .' and account no: '. $_SESSION['historyaccNumber']
.'!<br>Please try again!</p>';
        session_destroy();
    } else {
        // if historyname field was set (i.e. form was submitted earlier) run script
        if (ISSET($_SESSION['historyname'])) {
            // include DB connection
            require '../db.inc.php';
            date_default_timezone_set("UTC");

            // query to select account ID from inputted account number
            $sql = "SELECT accountID FROM `Deposit Account` WHERE
accountNumber='$_SESSION[historyaccNumber]";

            if (!$result = mysqli_query($con, $sql)) {
                die('Error in querying the database ' . mysqli_error($con));
            }

            $row = mysqli_fetch_array($result);
            // store account ID
            $accID = $row['accountID'];

            // check which date fields had data and add WHERE to the SQL query below
            // if both date fields had data
            if (ISSET($_SESSION['startDate']) && ISSET($_SESSION['endDate'])) {
                $dateSQL = "AND date>='$_SESSION[startDate]' AND
date<='$_SESSION[endDate]'";
            } else if (ISSET($_SESSION['startDate'])) {
                // if only start date had data
                $dateSQL = "AND date>='$_SESSION[startDate]'";
            } else if (ISSET($_SESSION['endDate'])) {
                // if only end date had data
                $dateSQL = "AND date<='$_SESSION[endDate]'";
            } else {
                // if none of the dates had data
                $dateSQL = "";
            }

            // sql query to select all transaction for this account ID with optional
date filtering
            $sql = "SELECT * FROM `Deposit Account History` WHERE accountID='$accID'
$dateSQL ORDER BY `Deposit Account History`.`date` DESC, transactionId DESC";

            if (!$result = mysqli_query($con, $sql)) {
                die('Error in querying the database ' . mysqli_error($con));
            }

```

```

        if (mysqli_affected_rows($con) == 0) {
            // if no transactions found display message
            echo "<p id='message'>No transactions found within the selected time
frame.<br>Please try with different dates</p>";
        } else {
            // if transactions found display table of transactions
            echo
            "<h2>Transactions:</h2><table><thead><tr><th>Date</th><th>Transaction
Type</th><th>Transaction Amount</th><th>Balance</th></tr></thead><tbody>";
            while ($row = mysqli_fetch_array($result)) {
                $date = date_create($row['date']);
                $date = date_format($date, "d-m-Y");
                echo
                "<tr><td>".$date."</td><td>".$row['transactionType']."</td><td>".$row['transactionAmount']."
</td><td>".$row['balance']."</td></tr>";
            }
            echo "</tbody></table>";
        }
        // close connection and destroy session
        mysqli_close($con);
        session_destroy();
    }
}
?>
</main>
</body>
</html>

```

## processForm.php

```
<!-- Name: Brandon Jaroszczak -->
<!-- Student ID: C00296052 -->
<!-- Month: March 2025 -->
<!-- Purpose: PHP script when form is submitted in deposit account history -->
<?php
    // Load in session and DB connectivity
    session_start();
    require '../db.inc.php';
    date_default_timezone_set("UTC");

    // Select all customers and their deposit accounts where neither are deleted and the
    customerNo and accountNumber match the entered details
    $sql = "SELECT firstName, surName
    FROM (Customer INNER JOIN `Customer/Deposit Account` ON Customer.customerNo =
    `Customer/Deposit Account`.`customerNo`)
    INNER JOIN `Deposit Account` ON `Customer/Deposit Account`.`accountID` = `Deposit
    Account`.`accountID`
    WHERE Customer.deletedFlag=0 AND `Deposit Account`.`deletedFlag`=0
    AND Customer.customerNo='$_POST[custNumber]' AND accountNumber='$_POST[accNumber]';

    if (!$result = mysqli_query($con, $sql)) {
        die('Error in querying the database ' . mysqli_error($con));
    }

    // get the rowcount
    $rowcount = mysqli_affected_rows($con);

    // store inputs in session variables
    $_SESSION['historycustNumber'] = $_POST['custNumber'];
    $_SESSION['historyaccNumber'] = $_POST['accNumber'];

    // if customer and account found populate session variables
    if ($rowcount == 1) {
        $row = mysqli_fetch_array($result);
        $_SESSION['historyname'] = $row['firstName'] . " " . $row['surName'];
        // if startDate had a value create a date object and store in session
        if ($_POST['startDate'] != "") {
            $startDate = date_create($_POST['startDate']);
            $_SESSION['startDate'] = date_format($startDate, "Y-m-d");
        }
        // if endDate had a value create a date object and store in session
        if ($_POST['endDate'] != "") {
            $endDate = date_create($_POST['endDate']);
            $_SESSION['endDate'] = date_format($endDate, "Y-m-d");
        }
    }
    else if ($rowcount == 0) {
        // if customer and account not found unset session variables
        unset($_SESSION['historyname']);
    }

    // close connection and redirect to main page
    mysqli_close($con);
    header('Location: ../');
?>
```

## dropdownBox.php

```
<!-- Name: Brandon Jaroszczak -->
<!-- Student ID: C00296052 -->
<!-- Month: March 2025 -->
<!-- Purpose: dropdown box for deposit account history -->
<?php
    // Load in session and DB connect file
    session_start();
    require '../db.inc.php'; // database connection
    date_default_timezone_set('UTC');

    // SQL query to select all non deleted customers and their non deleted deposit accounts
    $sql = "SELECT firstName, surName, Customer.customerNo, accountNumber, balance
    FROM (Customer INNER JOIN `Customer/Deposit Account` ON Customer.customerNo =
`Customer/Deposit Account`.`customerNo`)
    INNER JOIN `Deposit Account` ON `Customer/Deposit Account`.`accountID` = `Deposit
Account`.`accountID`
    WHERE Customer.deletedFlag=0 AND `Deposit Account`.`deletedFlag`=0;";

    if (!$result = mysqli_query($con, $sql)) {
        die ('Error in querying the database ' . mysqli_error($con));
    }

    // if the value of selected customer/account is not null then store it in the variable,
    otherwise store empty string
    // ?? means if $_SESSION is null or doesn't exist then result will be ''
    $selectedCustomer = $_SESSION['historycustNumber'] ?? ''; // Retrieve stored number or
    empty string
    $selectedAccount = $_SESSION['historyaccNumber'] ?? '';
    echo "<select name='listbox' id='listbox' onchange='populate()'>";

    // load in values from database and into the select dropdown
    while ($row = mysqli_fetch_array($result)) {
        $customerNo = $row['customerNo'];
        $fullName = $row['firstName'] . " " . $row['surName'];
        $accountNumber = $row['accountNumber'];
        $allText = "$customerNo -$fullName -$accountNumber";

        // Check if the current customer should be selected
        // If both statements are true then use the value beside the ? otherwise use the
        value beside : (ternary operator)
        $selected = (($customerNo == $selectedCustomer) && ($accountNumber ==
        $selectedAccount)) ? "selected" : "";

        echo "<option value='$allText' $selected>$fullName: $accountNumber</option>";
    }
    echo "</select>";
    // close connection
    mysqli_close($con);
?>
```



## script.js

```
/* Name: Brandon Jaroszczak
Student ID: C00296052
Month: March 2025
Purpose: javascript functions used by the main HTML page for deposit account history */

// populates all relevant form fields with data from the dropdown menu
function populate() {
    // get the value from the dropdown menu and put them into the fields
    const sel = document.getElementById("listbox");
    const result = sel.options[sel.selectedIndex].value;
    const personDetails = result.split(' - '); // - has to be used as addresses may contain a
    , inside them breaking the string
    // populate the fields
    document.getElementById("custNumber").value = personDetails[0];
    document.getElementById("name").value = personDetails[1];
    document.getElementById("accNumber").value = personDetails[2];
}

// checks is the end date not before the start date
function checkDates() {
    // if the start date and end date both have values in them check, otherwise dont check
    if (document.getElementById("startDate").value &&
document.getElementById("endDate").value) {
        const startDate = new Date(document.getElementById("startDate").value);
        const endDate = new Date(document.getElementById("endDate").value);

        if (endDate < startDate) {
            // if end date is before the start date alert user and prevent form from
submitting
            alert("End date must not be before starting date!");
            return false;
        }
    }
    return true;
}
```

# CSS

```
/* Name: Brandon Jaroszczak
Student ID: C00296052
Month: March 2025
Purpose: CSS used by all screens */

/* Style input fields that are readonly */
input:read-only, input:read-only:focus {
    background-color: rgb(230, 230, 230);
    outline: none;
}
/* Style the form */
form {
    margin-top: 50px;
    background-color: var(--content-bg-color);
    padding: 15px;
    border: solid var(--content-border-color) 2px;
    border-radius: 30px;
}
/* Style the div the buttons are in */
.buttons {
    margin-top: 15px;
}
/* Style inputs of type submit and reset (buttons) */
input[type="submit"], input[type="reset"] {
    background-color: white;
    border: solid var(--content-border-color) 1px;
    transition-duration: 0.5s;
}

/* Style the animation on inputs of type submit when hovered on */
input[type="submit"]:not(:disabled):hover {
    background-color: #ce75fd;
    transition-duration: 0.75s;
}

/* Style the animation on inputs of type reset when hovered on */
input[type="reset"]:not(:disabled):hover {
    background-color: rgb(255, 69, 69);
    transition-duration: 0.75s;
}

/* Style h1 inside of form */
form h1 {
    margin: 0;
    margin-bottom: 20px;
}
/* Style h2 */
h2 {
    text-align: center;
    font-size: 2em;
    padding: 15px;
}
/* Style the table itself */
table {
    margin-left: auto;
    margin-right: auto;
    margin-bottom: 20px;
    border: solid var(--content-border-color) 2px;
    background-color: var(--content-bg-color);
    border-spacing: 0;
```

```

    border-radius: 25px;
}

/* Style all elements inside a table element */
table * {
    font-size: 1.05em;
    padding: 5px 25px;
    text-align: center;
}

/* Style all elements in a table row */
tr * {
    border-left: solid black 1px;
}

/* Style the first element in a table row */
tr *:first-child {
    border-left: none;
}

/* Style all elements in a table row that's in a table header (thead) */
thead tr * {
    border-bottom: solid black 2px;
}

/* Style the upper form (used only by open deposit accounts to "combine" 2 separate forms
into 1 using css)*/
.upperForm {
    border-bottom: none;
    border-bottom-left-radius: 0;
    border-bottom-right-radius: 0;
}

/* Style the lower form (used only by open deposit accounts to "combine" 2 separate forms
into 1 using css)*/
.lowerForm {
    margin-top: 0;
    padding-top: 0;
    border-top: none;
    border-top-left-radius: 0;
    border-top-right-radius: 0;
}

/* Style p elements with id message */
p#message {
    text-align: center;
    padding: 0 100px;
}

/* Style p elements with id error message */
p#errorMessage {
    color: red;
    text-align: center;
    font-size: 20px;
}

/* Style the labels in elements with class inputbox */
.inputbox > label {
    width: 225px;
}

```

# Individual work (Darian Byrne)

## Darian Common files

### accountno.inc.php

```
<?php
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 13/02/2025
Account Number Generator */

// function that can be called to generate a new unique account number
function generateAccountNo()
{
    // we're doing database operations, require that file
    require($_SERVER["DOCUMENT_ROOT"] . '/db.inc.php');
    // loops until continueLoop is false (a safe account number was generated)
    $continueLoop = true;
    while ($continueLoop) {
        // generate a random 8 digit account number
        $accountNo = rand(10000000, 99999999);

        // stores the SQL statement to be queried later
        // queries each account type for an account matching the given account number
        $sql = "SELECT accountNumber FROM `Deposit Account` WHERE accountNumber = $accountNo
        UNION SELECT accountNumber FROM `Loan Account` WHERE accountNumber = $accountNo
        UNION SELECT accountNumber FROM `Current Account` WHERE accountNumber = $accountNo";

        // run the query for each account type
        $result = mysqli_query($con, $sql);

        // checks that the sql query was successful
        if (!$result) {
            // displays the error that caused the query to fail
            // exits the script
            die("An error in the SQL Query: " . mysqli_error($con));
        }

        // counts the number of accounts with the given account number
        $numOfAccounts = mysqli_num_rows($result);

        // checks if the account number exists on any other account type
        if ($numOfAccounts == 0) {
            // this account number is safe
            $continueLoop = false;
        }
    }

    // closes the connection
    mysqli_close($con);

    // sends the accountNo
    return $accountNo;
}
```

## **balance.inc.php**

```
<?php
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 17/03/2025
Balance */

// function that accepts a balance value and returns it with a prefix
function displayBalance($bal)
{
    // converts the balance to a float if it's not already
    if (is_string($bal)) {
        $bal = floatval($bal);
    }

    // checks the value of the balance and returns the proper prefix
    if ($bal == 0) {
        return "€" . $bal;
    } else if ($bal < 0) {
        return "Debit €" . (0 - $bal);
    } else {
        return "Credit €" . $bal;
    }
}
```

## currentAccountDetails.inc.php

```
<?php
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 16/03/2025
Current Account details */
// we're doing database operations, require that file
require($_SERVER["DOCUMENT_ROOT"] . '/db.inc.php');
// declares that these variables are from another file and globally available
global $con;
global $validAccount;

// default to false
$validAccount = false;

// stores the SQL statement to be queried later
// selects the account details and joins the customer to ensure an account from a deleted
customer isn't selected
// if no account is POSTed, all accounts are selected then later a check for only 1 account
is made
$sql = "SELECT balance, overdraftLimit, `Customer`.customerNo FROM `Current Account`
INNER JOIN `Customer/CurrentAccount` ON `Current Account`.accountId =
`Customer/CurrentAccount`.accountId
INNER JOIN `Customer` ON `Customer/CurrentAccount`.`customerNo` = `Customer`.`customerNo`
WHERE `Customer`.deletedFlag = 0 AND `Current Account`.deletedFlag = 0" .
(empty($_POST["accountno"]) ? " AND accountNumber = $_POST[accountno]" : "");

// checks that the sql query was successful
if (!$result = mysqli_query($con, $sql)) {
    // displays the error that caused the query to fail
    // exits the script
    die("An error in the SQL Query: " . mysqli_error($con));
}

// checks that only one account was queried
if (mysqli_num_rows($result) == 1) {
    // sets the valid account to true so that other pieces of code can run elsewhere
    $validAccount = true;

    // gets the row from the result
    $row = mysqli_fetch_array($result);
    // stores the values in the row
    $_SESSION["balance"] = $row["balance"];
    $_SESSION["overdraftLimit"] = $row["overdraftLimit"];
    // sets the customer number on the form if one wasn't entered by the user
    if (empty($_POST["cid"])) $_POST["cid"] = $row["customerNo"];
} else {
    // clears the values before they are displayed on the form
    unset($_SESSION["balance"]);
    unset($_SESSION["overdraftLimit"]);
    // sends an error message to display to the user
    $_SESSION["errorMsg"] .= "No record found for account number:
$_POST[accountno]<br>Please try again!<br>";
}

// closes the connection
mysqli_close($con);
```

## currentAccountList.php

```
<?php
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 16/03/2025
Current Account List */
// we're doing database operations, require that file
require($_SERVER["DOCUMENT_ROOT"] . '/db.inc.php');
// declares that these variables are from another file and globally available
global $con;
// set the default timezone
date_default_timezone_set("UTC");

// stores the SQL statement to be queried later
// selects the current accounts and joins the customer to ensure an account from a deleted
customer isn't selected
// can display all accounts if no customer number is entered, or only the accounts of a
customer if it is entered
$sql = "SELECT accountNumber FROM `Current Account`
INNER JOIN `Customer/CurrentAccount` ON `Current Account`.accountId =
`Customer/CurrentAccount`.accountId
INNER JOIN Customer ON Customer.customerNo = `Customer/CurrentAccount`.customerNo
WHERE Customer.deletedFlag = 0 AND `Current Account`.deletedFlag = 0 " .
(!empty($_POST["cid"]) ? "AND Customer.customerNo = $_POST[cid]" : "");

// checks that the sql query was successful
if (!$result = mysqli_query($con, $sql)) {
    // displays the error that caused the query to fail
    // exits the script
    die("An error in the SQL Query: " . mysqli_error($con));
}

// goes through all the accounts in the result
while ($row = mysqli_fetch_array($result)) {
    // echos out each account to the form
    echo "<option value='{$row[accountNumber]}' />";
}

// closes the connection
mysqli_close($con);
```

## currentAccountTransactions.php

```
<?php
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 18/03/2025
Current Account Transactions */
// we're doing database operations, require that file
require($_SERVER["DOCUMENT_ROOT"] . '/db.inc.php');
// declares that these variables are from another file and globally available
global $con;
// code that displays a balance as debit/credit
require_once($_SERVER["DOCUMENT_ROOT"] . '/darian/balance.inc.php'); // I use require_once
because it's already been required elsewhere, which causes a Fatal error: Cannot redeclare
displayBalance()

// stores the SQL statement to be queried later
// gets the transactions from a current account, joins the customer to ensure an account
from a deleted customer isn't selected, and orders them in descending order
// if no account number is POSTed, the account number 0 is selected which doesn't belong to
any account therefore no account is selected
$sql = "SELECT date, transactionType, amount, `Current Account History`.balance
FROM `Current Account History`
INNER JOIN `Current Account` ON `Current Account History`.accountId = `Current
Account`.accountId
INNER JOIN `Customer/CurrentAccount` ON `Current Account`.accountId =
`Customer/CurrentAccount`.accountId
INNER JOIN `Customer` ON `Customer/CurrentAccount`.`customerNo` = `Customer`.`customerNo`
WHERE `Current Account`.deletedFlag = 0 AND `Customer`.deletedFlag = 0 AND accountNumber = "
. (!empty($_POST["accountno"])) ? "$_POST[accountno]" : "0") . "
ORDER BY date DESC, transactionId DESC
LIMIT 10";

// checks that the sql query was successful
if (!$result = mysqli_query($con, $sql)) {
    // displays the error that caused the query to fail
    // exits the script
    die("An error in the SQL Query: " . mysqli_error($con));
}

// table header
echo "<tr><th>Date</th><th>Type</th><th>Amount</th><th>Balance</th></tr>";

// loops until 10 transactions are displayed or there's no more transactions
while ($row = mysqli_fetch_array($result)) {
    // gets the values from the row
    $date = $row["date"];
    $type = $row["transactionType"];
    $amount = $row["amount"];
    $balance = $row["balance"];
    // echos out the row with the date, type, amount, and formatted balance
    echo "<tr><td>$date</td><td>$type</td><td>€$amount</td><td>" . displayBalance($balance)
    . "</td></tr>";
}

// closes the connection
mysqli_close($con);
```



## currentDepositAccountDetails.inc.php

```
<?php
/* Student Name      : Darian Byrne
Student Id Number: C00296036
Date                : 16/03/2025
Current/Deposit Account details */
// we're doing database operations, require that file
require($_SERVER["DOCUMENT_ROOT"] . '/db.inc.php');
// declares that these variables are from another file and globally available
global $con;
global $validAccount;
// default to false
$validAccount = false;
// stores the SQL statement to be queried later
// selects the account details and joins the customer to ensure an account from a deleted
customer isn't selected
// if no account is POSTed, all accounts are selected then later a check for only 1 account
is made
$sql = "SELECT balance, overdraftLimit, 'Current' AS 'type', `Customer`.customerNo FROM
`Current Account`
INNER JOIN `Customer/CurrentAccount` ON `Current Account`.accountId =
`Customer/CurrentAccount`.accountId
INNER JOIN `Customer` ON `Customer/CurrentAccount`.`customerNo` = `Customer`.`customerNo`
WHERE `Customer`.deletedFlag = 0 AND `Current Account`.deletedFlag = 0" .
(!empty($_POST["accountno"])) ? " AND accountNumber = $_POST[accountno]" : "" . "
UNION (SELECT balance, '0' AS 'overdraftLimit', 'Deposit' AS 'type', `Customer`.customerNo
FROM `Deposit Account`
INNER JOIN `Customer/Deposit Account` ON `Deposit Account`.accountId = `Customer/Deposit
Account`.accountId
INNER JOIN `Customer` ON `Customer/Deposit Account`.`customerNo` = `Customer`.`customerNo`
WHERE `Customer`.deletedFlag = 0 AND `Deposit Account`.deletedFlag = 0" .
(!empty($_POST["accountno"])) ? " AND accountNumber = $_POST[accountno]" : "" . ")";
// checks that the sql query was successful
if (!$result = mysqli_query($con, $sql)) {
    // displays the error that caused the query to fail
    // exits the script
    die("An error in the SQL Query: " . mysqli_error($con));
}
// checks that only one account was queried
if (mysqli_num_rows($result) == 1) {
    // sets the valid account to true so that other pieces of code can run elsewhere
    $validAccount = true;

    // gets the row from the result
    $row = mysqli_fetch_array($result);
    // stores the values in the row
    $_SESSION["balance"] = $row["balance"];
    $_SESSION["overdraftLimit"] = $row["overdraftLimit"];
    $_SESSION["type"] = $row["type"];
    // sets the customer number on the form if one wasn't entered by the user
    if (empty($_POST["cid"])) $_POST["cid"] = $row["customerNo"];
} else {
    // clears the values before they are displayed on the form
    unset($_SESSION["balance"]);
    unset($_SESSION["overdraftLimit"]);
    unset($_SESSION["type"]);
    // sends an error message to display to the user
    $_SESSION["errorMsg"] .= "No record found for account number:
$_POST[accountno]<br>Please try again!<br>";
}
// closes the connection
mysqli_close($con);
```

## currentDepositAccountList.php

```
<?php
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 19/03/2025
Current/Deposit Account List */
// we're doing database operations, require that file
require($_SERVER["DOCUMENT_ROOT"] . '/db.inc.php');
// declares that these variables are from another file and globally available
global $con;
// set the default timezone
date_default_timezone_set("UTC");

// stores the SQL statement to be queried later
// selects the accounts and joins the customer to ensure an account from a deleted customer
isn't selected
// can display all accounts if no customer number is entered, or only the accounts of a
customer if it is entered
$sql = "SELECT accountNumber FROM `Current Account`
INNER JOIN `Customer/CurrentAccount` ON `Current Account`.accountId =
`Customer/CurrentAccount`.accountId
INNER JOIN `Customer` ON `Customer/CurrentAccount`.`customerNo` = `Customer`.`customerNo`
WHERE `Customer`.deletedFlag = 0 AND `Current Account`.deletedFlag = 0" .
(!empty($_POST["cid"])) ? " AND Customer.customerNo = $_POST[cid] : "" . "
UNION (SELECT accountNumber FROM `Deposit Account`
INNER JOIN `Customer/Deposit Account` ON `Deposit Account`.accountId = `Customer/Deposit
Account`.accountId
INNER JOIN `Customer` ON `Customer/Deposit Account`.`customerNo` = `Customer`.`customerNo`
WHERE `Customer`.deletedFlag = 0 AND `Deposit Account`.deletedFlag = 0" .
(!empty($_POST["cid"])) ? " AND Customer.customerNo = $_POST[cid] : "" . ")";

// checks that the sql query was successful
if (!$result = mysqli_query($con, $sql)) {
    // displays the error that caused the query to fail
    // exits the script
    die("An error in the SQL Query: " . mysqli_error($con));
}

// goes through all the accounts in the result
while ($row = mysqli_fetch_array($result)) {
    // echos out each account to the form
    echo "<option value='{$row[accountNumber]}' />";
}

// closes the connection
mysqli_close($con);
```

## customerDetails.html.php

```
<!--
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 15/03/2025
Customer Details -->
<!-- handles the customerNo from the inputbox -->
<script src="/darian/customerDetails.js"></script>

<!-- a div which groups the input box and it's label -->
<div class="inputbox">
    <label for="cid">Customer number:</label>
    <!-- the cid input box -->
    <input type="number" name="cid" id="cid" placeholder="Customer number"
onchange="inputCustomer(this)"
        title="Customer numbers start at 1" min="0" step="1" required
        value="<?php if (isset($_POST["cid"])) echo $_POST["cid"]; ?>"
</div>

<!-- a div which groups the input box and it's label -->
<div class="inputbox">
    <label for="name">Customer name:</label>
    <!-- the name select box -->
    <select id="name" onchange="inputCustomer(this)" title="Choose a customer by name"
required>
        <option></option>
        <?php require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerListbox.php'); ?>
    </select>
</div>

<!-- a div which groups the input box and it's label -->
<div class="inputbox">
    <label for="address">Address:</label>
    <!-- the address input box -->
    <input type="text" name="address" id="address"
        value="<?php if (isset($_SESSION["address"])) echo $_SESSION["address"] ?>"
placeholder="Address" disabled>
</div>

<!-- a div which groups the input box and it's label -->
<div class="inputbox">
    <label for="eircode">Eircode:</label>
    <!-- the eircode input box -->
    <input type="text" name="eircode" id="eircode"
        value="<?php if (isset($_SESSION["eircode"])) echo $_SESSION["eircode"] ?>"
placeholder="Eircode" disabled>
</div>

<!-- a div which groups the calendar and it's label -->
<div class="inputbox">
    <label for="dob">Date of Birth:</label>
    <!-- the dob calendar -->
    <input type="date" name="dob" id="dob"
        value="<?php if (isset($_SESSION["dob"])) echo $_SESSION["dob"] ?>"
placeholder="Date of Birth" disabled>
</div>
```

## customerDetails.inc.php

```
<?php
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 15/03/2025
Customer Details */
// we're doing database operations, require that file
require($_SERVER["DOCUMENT_ROOT"] . '/db.inc.php');
// declares that these variables are from another file and globally available
global $con;
global $validId;

// default to false
$validId = false;

// stores the SQL statement to be queried later
// selects a customers details, makes sure they aren't deleted
// if no customer number is POSTed, the customer number 0 is selected which doesn't belong
to any customer therefore no customer is selected
$sql = "SELECT address, eircode, dateOfBirth FROM Customer
WHERE deletedFlag = 0 AND Customer.customerNo = " . (!empty($_POST["cid"]) ? $_POST["cid"] :
"0");

// checks that the sql query was successful
if (!$result = mysqli_query($con, $sql)) {
    // displays the error that caused the query to fail
    // exits the script
    die("An error in the SQL Query: " . mysqli_error($con));
}

// checks that only one account was queried
if (mysqli_num_rows($result) == 1) {
    // sets the valid customer to true so that other pieces of code can run elsewhere
    $validId = true;

    // gets the row from the result
    $row = mysqli_fetch_array($result);
    // stores the values in the row
    $_SESSION["address"] = $row["address"];
    $_SESSION["eircode"] = $row["eircode"];
    $_SESSION["dob"] = $row["dateOfBirth"];
} else {
    // clears the values before they are displayed on the form
    unset($_SESSION["address"]);
    unset($_SESSION["eircode"]);
    unset($_SESSION["dob"]);
    // sends an error message to display to the user
    $_SESSION["errorMsg"] .= "No record found for customer number: $_POST[cid]<br>Please try
again!<br>";
}

// closes the connection
mysqli_close($con);
```

## **customerDetails.js**

```
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 15/03/2025
Customer Details */

// function that handles the customerNo from the inputbox
function inputCustomer(input) {
  // gets the form display for the customer id from the form
  const cid = document.getElementById("cid");

  // checks if the function is being run from select or not
  if (input.id == "name") {
    // checks that there is input
    if (input.value) {
      // splits the customer details from the selected customer
      const details = input.value.split(" §"); // details split by § as it shouldn't
appear in a persons address (unlike commas)
      // sets the id from the customer details
      cid.value = details[0];
    } else {
      // sets the id to 0 if there's no input
      cid.value = "0";
    }
  }

  // gets the form on the page
  const form = document.querySelector("form");
  // temporarily stores the id
  let id = cid.value;
  // resets the inputs in the form
  form.reset();
  // updates the id on the form
  cid.value = id;
  // submits the form so that the customers details can be queried
  form.submit();
}
```

## customerListbox.php

```
<?php
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 13/02/2025
Customer List box */
// we're doing database operations, require that file
require($_SERVER["DOCUMENT_ROOT"] . '/db.inc.php');
// declares that these variables are from another file and globally available
global $con;
// set the default timezone
date_default_timezone_set("UTC");

// stores the SQL statement to be queried later
// selects all customers who aren't deleted
$sql = "SELECT customerNo, firstName, surName, address, eircode, dateOfBirth FROM Customer
WHERE deletedFlag = 0";

// checks that the sql query was successful
if (!$result = mysqli_query($con, $sql)) {
    // displays the error that caused the query to fail
    // exits the script
    die("An error in the SQL Query: " . mysqli_error($con));
}

// goes through all the customers in the result
while ($row = mysqli_fetch_array($result)) {
    // gets the values from the row
    $id = $row["customerNo"];
    $fname = $row["firstName"];
    $lname = $row["surName"];
    $name = $fname . " " . $lname;
    $addr = $row["address"];
    $eircode = $row["eircode"];
    $dob = $row["dateOfBirth"];
    // joins all the details into one string
    $allText = "$id $addr $eircode $dob"; // details split by $ as it shouldn't appear in
a persons address (unlike commas)

    // if a customer number was POSTed and matches the one in the current rom
    if (isset($_POST["cid"]) && $_POST["cid"] == $id) {
        // mark this option as the selected one
        echo "<option value='$allText' selected>$name</option>";
    } else {
        // otherwise just echo out the option
        echo "<option value='$allText'>$name</option>";
    }
}

// closes the connection
mysqli_close($con);
```

## **darianScript.js**

```
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 17/03/2025
Scripts */

// function that handles the account number from the inputbox
function inputAccount(input) {
    // gets the form display for the account number from the form
    const cid = document.getElementById("cid");
    // const accountno = document.getElementById("accountno");

    // gets the form on the page
    const form = document.querySelector("form");

    // updates the account number on the form
    if (input.value) cid.value = "";
    // submits the form so that the accounts details can be queried
    form.submit();
}

// function that handles the cancel
function cancel() {
    // gets the form inputs
    const cid = document.getElementById("cid");
    const accountno = document.getElementById("accountno");
    // gets the form on the page
    const form = document.querySelector("form");

    // clears the values on the form
    cid.value = "";
    accountno.value = "";
    // submits the form so that the screen is fresh
    form.submit();
}

// function that handles hiding the display message on the form
function hide(span) {
    // gets the paragraph surrounding the button
    const parent = span.parentElement;
    // removes the paragraph
    parent.remove();
}
```

## darianStyles.css

```
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 13/02/2025
Styles */

/* CSS constants */
:root {
  --sidebar-bg-color: #78569F;
  --content-bg-color: #EED7FB;
}

form {
  /* adds space above the form */
  margin-top: 6em;
  /* sets a light purple background colour */
  background-color: var(--content-bg-color);
  /* thin purple border */
  border: solid var(--sidebar-bg-color) 2px;
  /* rounded borders */
  border-radius: 16px;
  /* space around the form's elements */
  padding: 16px;
}

/* styles the input labels */
.inputbox > label {
  /* slightly larger than the common styles width */
  width: 210px;
}

/* styles the inputs */
.inputbox > input, select {
  /* I'm using !important because the nav menu conflicts with my styles */
  /* thin purple border */
  border: solid var(--sidebar-bg-color) 2px !important;
  /* slight rounded border */
  border-radius: 8px !important;
  /* horizontal padding */
  padding: 0 8px !important;
}

.myButton {
  /* slightly spaces the row of buttons away from the form's content */
  margin-top: 1em;
  /* flexbox so that the buttons can be centred and evenly spaced */
  display: flex;
  justify-content: space-evenly;
}

.button {
  /* thin purple border */
  border: solid var(--sidebar-bg-color) 2px;
  /* slight rounded border */
  border-radius: 8px;
  /* makes the button larger */
  padding: 16px;
  /* makes the button look like it is popping out of the page */
  border-bottom-width: 4px;
}

.button:hover {
  /* highlights the button when it is hovered */
  background-color: var(--sidebar-bg-color);
}
```




```

    color: white;
}
/* styles the small display message at the bottom of each form */
.display {
    /* adds some spacing between the message and the form's buttons */
    margin-top: 1em;
}
/* styles the button within the display message */
.display > span {
    /* changes the color of the text to blue */
    color: blue;
    /* sets a pointer cursor, so the user knows this is clickable */
    cursor: pointer;
}
/* styles the large error message shown below each form */
.errorDisplay {
    /* changes the color of the text to red */
    color: red;
    /* increases the font size */
    font-size: 2em;
    /* centres the text */
    text-align: center;
}
/* styles the heading on the main content of the page */
main > h2 {
    /* add some spacing around the heading */
    margin-top: 2em;
    margin-bottom: 1em;
    text-align: center;
    /* same font size as form */
    font-size: 1.6em;
}
/* styles a table */
table {
    /* same widths as the form */
    min-width: 600px;
    width: 60%;
    max-width: 1000px;
    /* centres the table */
    margin: auto;
    /* background colour for the table */
    background-color: var(--content-bg-color);
    /* border for the table */
    border: solid var(--sidebar-bg-color) 2px;
    border-spacing: 0;
    border-radius: 16px;
}
/* styles all cells in a table */
th, td {
    /* spaces out the cells and aligns them nicely */
    padding: 4px 24px;
    text-align: center;
    /* border in between the cells */
    border-left: solid black 1px;
}
/* styles the first cells in a table row */
th:first-child, td:first-child {
    /* the first cell doesnt have a neighbor on it's left */
    border-left: none;
}

```

## Open Current Account



Lodgements

Withdrawals

Customer File Maintenance

Account Maintenance

Deposit Account

Loan Account

Current Account

Open an account

Close an account

Amend/View an account

Management Menu

Quotes

Reports

Change password

Open Current Account

Customer number:

Customer number

Customer name:

Address:

Address

Eircode:

Eircode

Date of Birth:

dd/mm/yyyy

Account number:

Account number

Overdraft limit:


Overdraft limit

Initial Deposit:

Initial Deposit

Open current account

Cancel



Lodgements

Withdrawals

Customer File Maintenance

Account Maintenance

Deposit Account

Loan Account

Current Account

Open an account

Close an account

Amend/View an account

Management Menu

Quotes

Reports

Change password

Open Current Account

Customer number:

9

Customer name:

Filip Kotacka

Address:

Carlow

Eircode:

G2187A1

Date of Birth:

13/03/2004

Account number:

68007431

Overdraft limit:

0

Initial Deposit:

0

Open current account

Cancel

## index.php

```
<!--
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 13/02/2025
Open Current Account -->
<?php
// start a session
session_start();
// initialises the error message so it can be concatenated to
if (!isset($_SESSION["errorMsg"])) $_SESSION["errorMsg"] = "";
// declares that these variables are from another file and globally available
global $validId;
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Bank - Open Current Account</title>
    <?php require($_SERVER["DOCUMENT_ROOT"] . '/head.html'); ?>
    <link rel="stylesheet" href="/darian/darianStyles.css">
    <script src="/darian/darianScript.js"></script>
    <script src="open.js"></script>
</head>
<body>
<?php
// adds the side menu to the page
require($_SERVER["DOCUMENT_ROOT"] . '/sideMenu.html');
// checks that a customerId was POSTed
if (!empty($_POST["cid"])) {
    // checks that the user confirmed and an account number was generated
    // and an overdraft limit and initial balance was entered
    if (!empty($_POST["confirmed"]) && !empty($_SESSION["accountno"])
        && isset($_POST["overdraftlimit"]) && isset($_POST["initbal"])) {
        // continue to open current account
        require("open.php");
    } else {
        // query customer details
        require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.inc.php');

        // checks that the id entered was valid
        if ($validId) {
            // requires code that can generate a random account number
            require($_SERVER["DOCUMENT_ROOT"] . '/darian/accountno.inc.php');
            // checks if an account number was already generated, generates a new one if not
            if (!isset($_SESSION["accountno"])) $_SESSION["accountno"] =
generateAccountNo();
        } else {
            // clears the random account number so it isn't displayed on the form
            unset($_SESSION["accountno"]);
        }
    }
} else {
    // no customerId was POSTed so clear the values so they aren't displayed on the form
    unset($_SESSION["accountno"]);
    unset($_SESSION["address"]);
    unset($_SESSION["eircode"]);
    unset($_SESSION["dob"]);
}
?>
<main>
```

```

<form action="." onsubmit="return confirmSubmit()" method="post">
  <!-- the heading of the form -->
  <h2>Open Current Account</h2>
  <!-- contains the labels and inputs for a customer -->
  <?php require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.html.php') ?>
  <!-- a div which groups the input box and it's label -->
  <div class="inputbox">
    <label for="accountno">Account number:</label>
    <!-- the accountno input box -->
    <input type="text" name="accountno" id="accountno"
      value="<?php if (isset($_SESSION["accountno"])) echo
$_SESSION["accountno"] ?>"
      placeholder="Account number" disabled>
  </div>
  <!-- a div which groups the input box and it's label -->
  <div class="inputbox">
    <label for="overdraftlimit">Overdraft limit:</label>
    <!-- the overdraftlimit input box -->
    <input type="number" name="overdraftlimit" id="overdraftlimit"
placeholder="Overdraft limit"
      title="0 for no overdraft" min="0" step="0.01" required>
  </div>
  <!-- a div which groups the input box and it's label -->
  <div class="inputbox">
    <label for="initbal">Initial Deposit:</label>
    <!-- the initbal input box -->
    <input type="number" name="initbal" id="initbal" placeholder="Initial Deposit"
      title="0 for no initial deposit" min="0" step="0.01" required>
  </div>
  <!-- a div which groups the buttons -->
  <div class="myButton">
    <!-- the submit button -->
    <input class="button" type="submit" value="Open current account">
    <!-- the reset button -->
    <input class="button" type="reset" value="Cancel" onclick="cancel()">
  </div>
  <!-- hidden input that is used to tell the server that the user has confirmed
closing the current account -->
  <input type="hidden" name="confirmed" id="confirmed" value="0">
  <!-- paragraph that will be used to display a message to the user after submitting
the form -->
  <p class="display">
    <?php
      // checks if there is a message and displays it
      // there's a text button that lets the user hide the message
      if (isset($_SESSION["message"])) echo "<span onclick='hide(this)'">Click here to
hide:</span> " . $_SESSION["message"];
      // clears the message afterward
      unset($_SESSION["message"]); ?></p>
  </form>

  <!-- paragraph that will be used to display an error to the user after submitting the
form -->
  <p class="errorDisplay">
    <?php
      // checks if there is an error and displays it
      if (isset($_SESSION["errorMsg"])) echo $_SESSION["errorMsg"];
      // clears the error afterward
      unset($_SESSION["errorMsg"]); ?></p>
</main>
</body>
</html>

```

## **open.js**

```
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 13/02/2025
Open Current Account */

// function that checks the user wants to submit the form
function confirmSubmit() {
    // displays a confirmation box to the user, the form will be submitted if they press OK
    if (confirm("Are you sure you want to open this current account?")) {
        // sets the hidden confirmed value for the server to read
        document.getElementById("confirmed").value = "1";
        return true;
    } else {
        return false;
    }
}
```

## open.php

```
<?php
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 13/02/2025
Open Current Account */
// start a session
session_start();
// we're doing database operations, require that file
require($_SERVER["DOCUMENT_ROOT"] . '/db.inc.php');
// declares that these variables are from another file and globally available
global $con;
// set the default timezone
date_default_timezone_set("UTC");

// gets the accountNo
$accountNo = $_SESSION["accountno"];

// converts and stores POSTed values to floats from strings
$overdraftlimit = floatval($_POST["overdraftlimit"]);
$initbal = floatval($_POST["initbal"]);

// checks if the overdraft limit is below 0
if ($overdraftlimit < 0) {
    // error
    $_SESSION["errorMsg"] .= "Overdraft limit of $_POST[overdraftlimit] is less than 0. It
must be greater than 0!<br>";
}

// checks if the initial deposit is below 0
if ($initbal < 0) {
    // error
    $_SESSION["errorMsg"] .= "Initial deposit of $_POST[initbal] is less than 0. It must be
greater than 0!<br>";
}

// stores the SQL statement to be queried later
// check that valid customer id was POSTed
$sql = "SELECT customerNo FROM Customer WHERE customerNo = $_POST[cid] AND deletedFlag = 0";
if (!$result = mysqli_query($con, $sql)) {
    // displays the error that caused the query to fail
    // exits the script
    die("An error in the SQL Query: " . mysqli_error($con));
}
// checks that only one account was queried
if (mysqli_num_rows($result) != 1) {
    // error
    $_SESSION["errorMsg"] .= "No record found for customer number: $_POST[cid]<br>";
}

// checks that there are no error messages
if (empty($_SESSION["errorMsg"])) {
    // stores the SQL statement to be queried later
    // creates the new current account
    $sql1 = "INSERT INTO `Current Account` (accountNumber, balance, overdraftLimit)
VALUES ($accountNo,$_POST[initbal],$_POST[overdraftlimit])";

    // checks that the sql query was successful
    if (!mysqli_query($con, $sql1)) {
        // displays the error that caused the query to fail
        // exits the script
    }
}
```

```

        die("An error in the SQL Query1: " . mysqli_error($con));
    }

    // stores the SQL statement to be queried later
    $sql2 = "SELECT accountId FROM `Current Account` WHERE accountNumber = $accountNo";

    // checks that the sql query was successful
    if (!$result = mysqli_query($con, $sql2)) {
        // displays the error that caused the query to fail
        // exits the script
        die("An error in the SQL Query2: " . mysqli_error($con));
    }
    // checks that only one account was queried
    if (mysqli_num_rows($result) == 1) {
        $row = mysqli_fetch_array($result);
        // stores the retrieved account id
        $accountId = $row["accountId"];

        // stores the SQL statement to be queried later
        // links the current account to the customer
        $sql3 = "INSERT INTO `Customer/CurrentAccount` (customerNo, accountId)
VALUES ($_POST[cid], $accountId)";

        // checks that the sql query was successful
        if (!mysqli_query($con, $sql3)) {
            // displays the error that caused the query to fail
            // exits the script
            die("An error in the SQL Query3: " . mysqli_error($con));
        }
        // gets the current date
        $now = date("Y-m-d");
        // stores the SQL statement to be queried later
        // makes the initial transaction
        $sql4 = "INSERT INTO `Current Account History` (accountId, date, transactionType,
amount, balance)
VALUES ('$accountId', '$now', 'Lodgement', '$_POST[initbal]', '$_POST[initbal]')";

        // checks that the sql query was successful
        if (!mysqli_query($con, $sql4)) {
            // displays the error that caused the query to fail
            // exits the script
            die("An error in the SQL Query4: " . mysqli_error($con));
        }
    }

    // cleanup
    session_unset();
    unset($_POST["cid"]);

    // sets the message to show to the user
    $_SESSION["message"] = "Current account opened with account number: " . $accountNo;
}
}
// closes the connection
mysqli_close($con);

```

## Close Current Account

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Customer number:

Customer name:

Address:

Eircode:

Date of Birth:

Account number:

Account balance:

Overdraft limit:

Close current account

Cancel

Balance for account number: 55573485 is: 17.99.  
It must be 0 before the account can be closed.



## index.php

```
<!--
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 03/03/2025
Close Current Account -->
<?php
// start a session
session_start();
// initialises the error message so it can be concatenated to
if (!isset($_SESSION["errorMsg"])) $_SESSION["errorMsg"] = "";
// declares that these variables are from another file and globally available
global $validId;
global $validAccount; ?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Bank - Close Current Account</title>
    <?php require($_SERVER["DOCUMENT_ROOT"] . '/head.html'); ?>
    <link rel="stylesheet" href="/darian/darianStyles.css">
    <script src="/darian/darianScript.js"></script>
    <script src="close.js"></script>
</head>
<body>
<?php
// adds the side menu to the page
require($_SERVER["DOCUMENT_ROOT"] . '/sideMenu.html');
// function that clears any account values, stopping them from being displayed on the form
function clearPreviousAccount()
{
    // clear the values so they aren't displayed on the form
    unset($_POST["accountno"]);
    unset($_SESSION["balance"]);
    unset($_SESSION["overdraftLimit"]);
}
// function that clears any customer values, stopping them from being displayed on the form
function clearPreviousCustomer()
{
    // clear the values so they aren't displayed on the form
    unset($_SESSION["address"]);
    unset($_SESSION["eircode"]);
    unset($_SESSION["dob"]);
}
// stores if we 'got' a value (if it was entered by the user)
$gotAccountNo = !empty($_POST["accountno"]);
$gotCustomerId = !empty($_POST["cid"]);
// checks if the account is to be closed
// checks that the user confirmed and a customerId and account number were entered
if (!empty($_POST["confirmed"]) && $gotCustomerId && $gotAccountNo) {
    // continue to close current account
    require("close.php");
} else if ($gotAccountNo && $gotCustomerId) {
    // user entered both account number and customerId, but didn't confirm so just display
    those details
    // we're doing database operations, require that file
    require($_SERVER["DOCUMENT_ROOT"] . '/db.inc.php');
    // declares that these variables are from another file and globally available
    global $con;
    // stores the SQL statement to be queried later
```

```

// selects the account, makes sure that the customerId entered belongs to the account
number entered
$sql = "SELECT `accountNumber`, `customerNo` FROM `Current Account`
INNER JOIN `Customer/CurrentAccount` ON `Current Account`.`accountId` =
`Customer/CurrentAccount`.`accountId`
WHERE `accountNumber` = '$_POST[accountno]' AND `customerNo` = '$_POST[cid]'";
// checks that the sql query was successful
if (!$result = mysqli_query($con, $sql)) {
    // displays the error that caused the query to fail
    // exits the script
    die("An error in the SQL Query: " . mysqli_error($con));
}
// closes the connection
mysqli_close($con);
// checks that a valid account was selected
if (mysqli_num_rows($result) != 0) {
    // displays both customer details and account details
    require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.inc.php');
    require($_SERVER["DOCUMENT_ROOT"] . '/darian/currentAccountDetails.inc.php');
} else {
    // if the account number and customer mismatch, just display the customers details
    and reset the account details
    require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.inc.php');
    clearPreviousAccount();
}
} else if ($gotAccountNo) {
    // only an account number was entered, display that account
    require($_SERVER["DOCUMENT_ROOT"] . '/darian/currentAccountDetails.inc.php');
    // then if the account entered was valid
    if ($validAccount) {
        // display the customer for that account
        require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.inc.php');
    } else {
        // otherwise clear the selected customer
        clearPreviousCustomer();
    }
}
} else if ($gotCustomerId) {
    // only a customerId was entered, display that customer
    require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.inc.php');
    // clear the account details from before
    clearPreviousAccount();
} else {
    // the form is empty, clear any details
    clearPreviousCustomer();
    clearPreviousAccount();
}
// checks if the account's balance isn't 0, shows an error message if it is
if (isset($_SESSION["balance"]) && $_SESSION["balance"] != 0) $_SESSION["errorMsg"] .=
"Balance for account number: $_POST[accountno] is: $_SESSION[balance].<br>It must be 0
before the account can be closed.<br>";
?>
<main>
<form action="." onsubmit="return confirmSubmit()" method="post">
    <!-- the heading of the form -->
    <h2>Close Current Account</h2>
    <!-- contains the labels and inputs for a customer -->
    <?php require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.html.php') ?>
    <!-- a div which groups the input box and it's label -->
    <div class="inputbox">
        <label for="accountno">Account number:</label>
        <!-- the accountno input box -->

```

```

        <input type="number" name="accountno" id="accountno" list="accounts"
placeholder="Account number"
        title="An account number is 8 digits, in the range 10000000 - 99999999"
        value="<?php if (isset($_POST["accountno"])) echo $_POST["accountno"];
?>"
        onchange="inputAccount(this)" min="10000000" max="99999999" step="1"
required>
        <!-- this datalist is used to help prompt the user with a list of accounts that
the customer has -->
        <datalist id="accounts">
            <?php require($_SERVER["DOCUMENT_ROOT"] . '/darian/currentAccountList.php');?>
        </datalist>
    </div>
    <!-- a div which groups the input box and it's label -->
    <div class="inputbox">
        <label for="accountbal">Account balance:</label>
        <!-- the accountbal input box -->
        <input type="text" name="accountbal" id="accountbal" value="<?php if
(isset($_SESSION["balance"])) {
            require($_SERVER["DOCUMENT_ROOT"] . '/darian/balance.inc.php');
            echo displayBalance($_SESSION["balance"]);
        } ?>" placeholder="Account balance" disabled>
    </div>
    <!-- a div which groups the input box and it's label -->
    <div class="inputbox">
        <label for="overdraftlimit">Overdraft limit:</label>
        <!-- the overdraftlimit input box -->
        <input type="text" name="overdraftlimit" id="overdraftlimit"
        value="<?php if (isset($_SESSION["overdraftLimit"])) echo
$_SESSION["overdraftLimit"]; ?>" placeholder="Overdraft limit" disabled>
    </div>
    <!-- a div which groups the buttons -->
    <div class="myButton">
        <!-- the submit button -->
        <input class="button" type="submit" value="Close current account">
        <!-- the reset button -->
        <input class="button" type="reset" value="Cancel" onclick="cancel()">
    </div>
    <!-- hidden input that is used to tell the server that the user has confirmed
closing the current account -->
    <input type="hidden" name="confirmed" id="confirmed" value="0">
    <!-- paragraph that will be used to display a message to the user after submitting
the form -->
    <p class="display">
        <?php
            // checks if there is a message and displays it
            // there's a text button that lets the user hide the message
            if (isset($_SESSION["message"])) echo "<span onclick='hide(this)'">Click here to
hide:</span> " . $_SESSION["message"];
            // clears the message afterward
            unset($_SESSION["message"]); ?></p>
    </form>
    <!-- paragraph that will be used to display an error to the user after submitting the
form -->
    <p class="errorDisplay">
        <?php
            // checks if there is an error and displays it
            if (isset($_SESSION["errorMsg"])) echo $_SESSION["errorMsg"];
            // clears the error afterward
            unset($_SESSION["errorMsg"]); ?></p>
</main>
</body></html>

```

## **close.js**

```
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 03/03/2025
Close Current Account */

// function that checks the user wants to submit the form
function confirmSubmit() {
    // displays a confirmation box to the user, the form will be submitted if they press OK
    if (confirm("Are you sure you want to close this current account?")) {
        // sets the hidden confirmed value for the server to read
        document.getElementById("confirmed").value = "1";
        return true;
    } else {
        return false;
    }
}
```

## **close.php**

```
<?php
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 03/03/2025
Close Current Account */
// start a session
session_start();
// we're doing database operations, require that file
require($_SERVER["DOCUMENT_ROOT"] . '/db.inc.php');
// declares that these variables are from another file and globally available
global $con;
// set the default timezone
date_default_timezone_set("UTC");

// gets the accountNo
$accountNo = $_POST["accountno"];

// stores the SQL statement to be queried later
// gets the balance on the account
$sql = "SELECT `balance` FROM `Current Account` WHERE accountNumber = $accountNo";

if (!$result = mysqli_query($con, $sql)) {
    // displays the error that caused the query to fail
    // exits the script
    die("An error in the SQL Query: " . mysqli_error($con));
}
// checks that only one account was queried
if (mysqli_num_rows($result) != 1) {
    // error
    $_SESSION["errorMsg"] .= "No record found for account number: $accountNo<br>";
} else {
    // gets the balance on the account
    $balance = mysqli_fetch_array($result)["balance"];

    // checks that the account balance is 0
    if ($balance != 0) {
        // error
        $_SESSION["errorMsg"] .= "Balance for account number: $accountNo is: $balance.<br>It
must be 0 before the account can be closed.<br>";
    }
}
// checks that there are no error messages
if (empty($_SESSION["errorMsg"])) {
    // marks the current account for deletion
    $sql1 = "UPDATE `Current Account` SET deletedFlag = 1 WHERE accountNumber = $accountNo";
    // checks that the sql query was successful
    if (!mysqli_query($con, $sql1)) {
        // displays the error that caused the query to fail
        // exits the script
        die("An error in the SQL Query1: " . mysqli_error($con));
    }
    // cleanup
    session_unset();
    unset($_POST["cid"]);
    unset($_POST["accountno"]);
    // sets the message to show to the user
    $_SESSION["message"] = "Current account closed with account number: " . $accountNo;
}
// closes the connection
mysqli_close($con);
```

# Amend/View Current Account

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Please select a current account and then click the amend button if you wish to update

Amend Details

Customer number:

Customer number

Customer name:

Address:

Address

Eircode:

Eircode

Date of Birth:

dd/mm/yyyy

Account number:

Account number

Account balance:

Account balance

Overdraft limit:

Overdraft limit

Save current account details

Cancel

Last 10 transactions

Date

Type

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Amend/View Current Account

Please select a current account and then click the amend button if you wish to update

Amend Details

Customer number:

7

Customer name:

John Keogh

Address:

Kildare

Eircode:

R340000

Date of Birth:

07/04/2004

Account number:

45976752

Account balance:

Credit €100

Overdraft limit:

8750.24

Save current account details

Cancel

Last 10 transactions

Date

Type

Amount

Balance

2025-03-20

Withdrawal

€10.00

Credit €100

2025-03-20

Withdrawal

€4.00

Credit €110

2025-03-20

Withdrawal

€3.00

Credit €114

2025-03-20

Withdrawal

€2.00

Credit €117

2025-03-20

Withdrawal

€1.00

Credit €118

## index.php

```
<!--
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 06/03/2025
Amend/View Current Account -->
<?php
// start a session
session_start();
// initialises the error message so it can be concatenated to
if (!isset($_SESSION["errorMsg"])) $_SESSION["errorMsg"] = "";
// declares that these variables are from another file and globally available
global $validId;
global $validAccount;
?>
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Bank - Amend/View Current Account</title>
    <?php require($_SERVER["DOCUMENT_ROOT"] . '/head.html'); ?>
    <link rel="stylesheet" href="/darian/darianStyles.css">
    <script src="/darian/darianScript.js"></script>
    <script src="amend-view.js"></script>
</head>

<body>
<?php
// adds the side menu to the page
require($_SERVER["DOCUMENT_ROOT"] . '/sideMenu.html');

// function that clears any account values, stopping them from being displayed on the form
function clearPreviousAccount()
{
    // clear the values so they aren't displayed on the form
    unset($_POST["accountno"]);
    unset($_SESSION["balance"]);
    unset($_SESSION["overdraftLimit"]);
}

// function that clears any customer values, stopping them from being displayed on the form
function clearPreviousCustomer()
{
    // clear the values so they aren't displayed on the form
    unset($_SESSION["address"]);
    unset($_SESSION["eircode"]);
    unset($_SESSION["dob"]);
}

// stores if we 'got' a value (if it was entered by the user)
$gotAccountNo = !empty($_POST["accountno"]);
$gotCustomerId = !empty($_POST["cid"]);

// checks if the account is to be amended
// checks that the user confirmed and a customerId and account number were entered
if (!empty($_POST["confirmed"]) && $gotCustomerId && $gotAccountNo) {
    // continue to amend current account
    require("amend-view.php");
} else if ($gotAccountNo && $gotCustomerId) {
```

```

    // user entered both account number and customerId, but didn't confirm so just display
those details
    // we're doing database operations, require that file
    require($_SERVER["DOCUMENT_ROOT"] . '/db.inc.php');
    // declares that these variables are from another file and globally available
    global $con;

    // stores the SQL statement to be queried later
    // selects the account, makes sure that the customerId entered belongs to the account
number entered
    $sql = "SELECT `accountNumber`, `customerNo` FROM `Current Account`
    INNER JOIN `Customer/CurrentAccount` ON `Current Account`.`accountId` =
`Customer/CurrentAccount`.`accountId`
    WHERE `accountNumber` = '$_POST[accountno]' AND `customerNo` = '$_POST[cid]'";
    // checks that the sql query was successful
    if (!$result = mysqli_query($con, $sql)) {
        // displays the error that caused the query to fail
        // exits the script
        die("An error in the SQL Query: " . mysqli_error($con));
    }
    // closes the connection
    mysqli_close($con);

    // checks that a valid account was selected
    if (mysqli_num_rows($result) != 0) {
        // displays both customer details and account details
        require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.inc.php');
        require($_SERVER["DOCUMENT_ROOT"] . '/darian/currentAccountDetails.inc.php');
    } else {
        // if the account number and customer mismatch, just display the customers details
and reset the account details
        require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.inc.php');
        clearPreviousAccount();
    }
} else if ($gotAccountNo) {
    // only an account number was entered, display that account
    require($_SERVER["DOCUMENT_ROOT"] . '/darian/currentAccountDetails.inc.php');
    // then if the account entered was valid
    if ($validAccount) {
        // display the customer for that account
        require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.inc.php');
    } else {
        // otherwise clear the selected customer
        clearPreviousCustomer();
    }
} else if ($gotCustomerId) {
    // only a customerId was entered, display that customer
    require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.inc.php');
    // clear the account details from before
    clearPreviousAccount();
} else {
    // the form is empty, clear any details
    clearPreviousCustomer();
    clearPreviousAccount();
}
?>
<main>
    <form action="." onsubmit="return confirmSubmit()" method="post">
        <!-- the heading of the form -->
        <h2>Amend/View Current Account</h2>
        <!-- smaller text under the main heading -->

```



```

    <h4>Please select a current account and then click the amend button if you wish to
update</h4>

    <!-- a div which centres the amend button -->
    <div class="myButton">
        <!-- toggle button for viewing/amending account details -->
        <input class="button" type="button" value="Amend Details" id="amendViewbutton"
onclick="toggleLock()">
    </div>

    <!-- contains the labels and inputs for a customer -->
    <?php require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.html.php') ?>

    <!-- a div which groups the input box and it's label -->
    <div class="inputbox">
        <label for="accountno">Account number:</label>
        <!-- the accountno input box -->
        <input type="number" name="accountno" id="accountno" list="accounts"
placeholder="Account number"
        title="An account number is 8 digits, in the range 10000000 - 99999999"
        value="<?php if (isset($_POST["accountno"])) echo $_POST["accountno"];
?>"
        onchange="inputAccount(this)" min="10000000" max="99999999" step="1"
required>
        <!-- this datalist is used to help prompt the user with a list of accounts that
the customer has -->
        <datalist id="accounts">
            <?php require($_SERVER["DOCUMENT_ROOT"] . '/darian/currentAccountList.php');
?>
        </datalist>
    </div>

    <!-- a div which groups the input box and it's label -->
    <div class="inputbox">
        <label for="accountbal">Account balance:</label>
        <!-- the accountbal input box -->
        <input type="text" name="accountbal" id="accountbal" value="<?php if
(isset($_SESSION["balance"])) {
            require($_SERVER["DOCUMENT_ROOT"] . '/darian/balance.inc.php');
            echo displayBalance($_SESSION["balance"]);
        } ?>" placeholder="Account balance" disabled>
    </div>

    <!-- a div which groups the input box and it's label -->
    <div class="inputbox">
        <label for="overdraftlimit">Overdraft limit:</label>
        <!-- the overdraftlimit input box -->
        <input type="number" name="overdraftlimit" id="overdraftlimit"
        value="<?php if (isset($_SESSION["overdraftLimit"])) echo
$_SESSION["overdraftLimit"]; ?>"
        placeholder="Overdraft limit" title="0 for no overdraft" min="0"
step="0.01" required disabled>
    </div>

    <!-- a div which groups the buttons -->
    <div class="myButton">
        <!-- the submit button -->
        <input class="button" type="submit" value="Save current account details">
        <!-- the reset button -->
        <input class="button" type="reset" value="Cancel" onclick="cancel()">
    </div>

```

```

        <!-- hidden input that is used to tell the server that the user has confirmed
closing the current account -->
        <input type="hidden" name="confirmed" id="confirmed" value="0">

        <!-- paragraph that will be used to display a message to the user after submitting
the form -->
        <p class="display">
            <?php
                // checks if there is a message and displays it
                // there's a text button that lets the user hide the message
                if (isset($_SESSION["message"])) echo "<span onclick='hide(this)'">Click here to
hide:</span> " . $_SESSION["message"];
                // clears the message afterward
                unset($_SESSION["message"]); ?></p>
        </form>

        <!-- paragraph that will be used to display an error to the user after submitting the
form -->
        <p class="errorDisplay">
            <?php
                // checks if there is an error and displays it
                if (isset($_SESSION["errorMsg"])) echo $_SESSION["errorMsg"];
                // clears the error afterward
                unset($_SESSION["errorMsg"]); ?></p>

        <!-- the heading of the table -->
        <h2>Last 10 transactions</h2>
        <!-- table of last 10 transactions -->
        <table id="transactions">
            <!-- queries the transactions for the current account -->
            <?php require($_SERVER["DOCUMENT_ROOT"] . '/darian/currentAccountTransactions.php');
?>
        </table>
    </main>
</body>

</html>

```

## **amend-view.js**

```
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 06/03/2025
Amend/View Current Account */

// function that checks the user wants to submit the form
function confirmSubmit() {
    // displays a confirmation box to the user, the form will be submitted if they press OK
    if (confirm("Are you sure you want to amend this current account?")) {
        // sets the hidden confirmed value for the server to read
        document.getElementById("confirmed").value = "1";
        return true;
    } else {
        return false;
    }
}

// function that toggles between amend/view
function toggleLock() {
    // checks the state of the amend button
    if (document.getElementById("amendViewbutton").value == "Amend Details") {
        // amend state, change to view state
        // disables the text inputs
        document.getElementById("overdraftlimit").disabled = false;
        // updates the label on the button
        document.getElementById("amendViewbutton").value = "View Details";
    } else {
        // view state, change to amend state
        // enables the text inputs
        document.getElementById("overdraftlimit").disabled = true;
        // updates the label on the button
        document.getElementById("amendViewbutton").value = "Amend Details";

        // gets the form on the page
        const form = document.querySelector("form");
        // resets the form back to the details from the database
        form.reset();
    }
}
```

## amend-view.php

```
<?php
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 06/03/2025
Amend/View Current Account */
// start a session
session_start();
// we're doing database operations, require that file
require($_SERVER["DOCUMENT_ROOT"] . '/db.inc.php');
// declares that these variables are from another file and globally available
global $con;
// set the default timezone
date_default_timezone_set("UTC");

// gets the accountNo
$accountNo = $_POST["accountno"];
$overdraftLimit = floatval($_POST["overdraftlimit"]);

// checks that the overdraft limit is positive
if ($overdraftLimit < 0) {
    // error
    $_SESSION["errorMsg"] .= "Overdraft limit cannot be below 0.<br>Set to 0 for no overdraft.<br>";
}

// stores the SQL statement to be queried later
// gets the balance on the account
$sql = "SELECT balance FROM `Current Account` WHERE accountNumber = '$accountNo'";

// checks that the sql query was successful
if (!$result = mysqli_query($con, $sql)) {
    // displays the error that caused the query to fail
    // exits the script
    die("An error in the SQL Query: " . mysqli_error($con));
}
// checks that only one account was queried
if (mysqli_num_rows($result) != 1) {
    // error
    $_SESSION["errorMsg"] .= "No record found for account number: $accountNo<br>";
} else {
    // gets the balance on the account
    $balance = floatval(mysqli_fetch_array($result)["balance"]);

    // calculate the minimum overdraft limit allowed for the accounts current balance
    $minOverdraftLimit = 0 - $balance;
    // the limit is 0 if the customer had a positive balance (0 - -x = +x)
    if ($minOverdraftLimit < 0) $minOverdraftLimit = 0;

    // checks that the overdraft limit is less than the minimum
    if ($overdraftLimit < $minOverdraftLimit) {
        // error
        $_SESSION["errorMsg"] .= "The overdraft limit of $overdraftLimit doesn't allow for the current balance of €$balance.<br>Please increase the overdraft limit to at least €$minOverdraftLimit<br>";
    }
}

// checks that there are no error messages
if (empty($_SESSION["errorMsg"])) {
    // stores the SQL statement to be queried later
```

```

    // updates a row in the current account table, uses the user input to set the overdraft
limit
    $sql = "UPDATE `Current Account` SET overdraftLimit = '$_POST[overdraftlimit]' WHERE
accountNumber = '$accountNo'";

    // checks that the sql query was successful
    if (!mysqli_query($con, $sql)) {
        // displays the error that caused the query to fail
        // exits the script
        die("An error in the SQL Query: " . mysqli_error($con));
    }

    // cleanup
    session_unset();
    unset($_POST["cid"]);
    unset($_POST["accountno"]);

    // sets the message to show to the user
    $_SESSION["message"] = "Current account with account number: $accountNo amended.";
}

// closes the connection
mysqli_close($con);

```

## Withdrawals

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Please select a current or deposit account, enter a withdrawal amount, then click the withdraw button to make a withdrawal.

Customer number:

Customer number

Customer name:

Address:

Address

Eircode:

Eircode

Date of Birth:

dd/mm/yyyy

Account number:

Account number

Account type:

Account type

Account balance:

Account balance

Overdraft limit:

Overdraft limit

Withdrawal amount:

Withdrawal amount

Withdraw

Cancel

Bank

Lodgements

Withdrawals

Customer File Maintenance

Account Maintenance

Management Menu

Quotes

Reports

Change password

Withdrawals

Please select a current or deposit account, enter a withdrawal amount, then click the withdraw button to make a withdrawal.

Customer number:

6

Customer name:

Sarah Kelly

Address:

55 Yellow Road, Carlow

Eircode:

R11 A291

Date of Birth:

31/01/2000

Account number:

12451583

Account type:

Deposit

Account balance:

Credit €999.99

Overdraft limit:

0

Withdrawal amount:

0.01

Withdraw

Cancel

## index.php

```
<!--
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 10/03/2025
Withdrawals -->
<?php
// start a session
session_start();
// initialises the error message so it can be concatenated to
if (!isset($_SESSION["errorMsg"])) $_SESSION["errorMsg"] = "";
// declares that these variables are from another file and globally available
global $validId;
global $validAccount;
?>
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Bank - Withdrawals</title>
    <?php require($_SERVER["DOCUMENT_ROOT"] . '/head.html'); ?>
    <link rel="stylesheet" href="/darian/darianStyles.css">
    <script src="/darian/darianScript.js"></script>
    <script src="withdrawals.js"></script>
</head>

<body>
<?php
// adds the side menu to the page
require($_SERVER["DOCUMENT_ROOT"] . '/sideMenu.html');

// function that clears any account values, stopping them from being displayed on the form
function clearPreviousAccount()
{
    // clear the values so they aren't displayed on the form
    unset($_POST["accountno"]);
    unset($_SESSION["balance"]);
    unset($_SESSION["overdraftLimit"]);
}

// function that clears any customer values, stopping them from being displayed on the form
function clearPreviousCustomer()
{
    // clear the values so they aren't displayed on the form
    unset($_SESSION["address"]);
    unset($_SESSION["eircode"]);
    unset($_SESSION["dob"]);
}

// stores if we 'got' a value (if it was entered by the user)
$gotAccountNo = !empty($_POST["accountno"]);
$gotCustomerId = !empty($_POST["cid"]);

// checks if the account is to be withdrawn
// checks that the user confirmed and a customerId and account number were entered
if (!empty($_POST["confirmed"]) && $gotCustomerId && $gotAccountNo) {
    // continue to withdraw from account
    require("withdrawals.php");
} else if ($gotAccountNo && $gotCustomerId) {
    // user entered both account number and customerId
```

```

// we're doing database operations, require that file
require($_SERVER["DOCUMENT_ROOT"] . '/db.inc.php');
// declares that these variables are from another file and globally available
global $con;

// stores the SQL statement to be queried later
// selects the account, makes sure that the customerId entered belongs to the account
number entered
$sql = "SELECT `accountNumber`, `customerNo` FROM `Current Account`
INNER JOIN `Customer/CurrentAccount` ON `Current Account`.`accountId` =
`Customer/CurrentAccount`.`accountId`
WHERE `accountNumber` = '$_POST[accountno]' AND `customerNo` = '$_POST[cid]'";
// checks that the sql query was successful
if (!$result = mysqli_query($con, $sql)) {
    // displays the error that caused the query to fail
    // exits the script
    die("An error in the SQL Query: " . mysqli_error($con));
}
// closes the connection
mysqli_close($con);

// checks that a valid account was selected
if (mysqli_num_rows($result) != 0) {
    // displays both customer details and account details
    require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.inc.php');
    require($_SERVER["DOCUMENT_ROOT"] . '/darian/currentDepositAccountDetails.inc.php');
} else {
    // if the account number and customer mismatch, just display the customers details
    and reset the account details
    require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.inc.php');
    clearPreviousAccount();
}
} else if ($gotAccountNo) {
    // only an account number was entered, display that account
    require($_SERVER["DOCUMENT_ROOT"] . '/darian/currentDepositAccountDetails.inc.php');
    // then if the account entered was valid
    if ($validAccount) {
        // display the customer for that account
        require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.inc.php');
    } else {
        // otherwise clear the selected customer
        clearPreviousCustomer();
    }
} else if ($gotCustomerId) {
    // only a customerId was entered, display that customer
    require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.inc.php');
    // clear the account details from before
    clearPreviousAccount();
} else {
    // the form is empty, clear any details
    clearPreviousCustomer();
    clearPreviousAccount();
}
?>

<main>
<form action="." onsubmit="return confirmSubmit()" method="post">
    <!-- the heading of the form -->
    <h2>Withdrawals</h2>
    <!-- smaller text under the main heading -->
    <h4>Please select a current or deposit account, enter a withdrawal amount, then
click the withdraw button to

```



```

        make a withdrawal.</h4>

<!-- contains the labels and inputs for a customer -->
<?php require($_SERVER["DOCUMENT_ROOT"] . '/darian/customerDetails.html.php') ?>

<!-- a div which groups the input box and it's label -->
<div class="inputbox">
    <label for="accountno">Account number:</label>
    <!-- the accountno input box -->
    <input type="number" name="accountno" id="accountno" list="accounts"
placeholder="Account number"
        title="An account number is 8 digits, in the range 10000000 - 99999999"
        value="<?php if (isset($_POST["accountno"])) echo $_POST["accountno"];
?>"
        onchange="inputAccount(this)" min="10000000" max="99999999" step="1"
required>
    <!-- this datalist is used to help prompt the user with a list of accounts that
the customer has -->
    <datalist id="accounts">
        <?php require($_SERVER["DOCUMENT_ROOT"] .
'/darian/currentDepositAccountList.php'); ?>
    </datalist>
</div>

<!-- a div which groups the input box and it's label -->
<div class="inputbox">
    <label for="accounttype">Account type:</label>
    <!-- the accounttype input box -->
    <input type="text" name="accounttype" id="accounttype" placeholder="Account
type" disabled
        value="<?php if (isset($_SESSION["type"])) echo $_SESSION["type"]; ?>">
</div>

<!-- a div which groups the input box and it's label -->
<div class="inputbox">
    <label for="accountbal">Account balance:</label>
    <!-- the accountbal input box -->
    <input type="text" name="accountbal" id="accountbal" value="<?php if
(isset($_SESSION["balance"])) {
        require($_SERVER["DOCUMENT_ROOT"] . '/darian/balance.inc.php');
        echo displayBalance($_SESSION["balance"]);
    } ?>" placeholder="Account balance" disabled>
</div>

<!-- a div which groups the input box and it's label -->
<div class="inputbox">
    <label for="overdraftlimit">Overdraft limit:</label>
    <!-- the overdraftlimit input box -->
    <input type="text" name="overdraftlimit" id="overdraftlimit"
placeholder="Overdraft limit" disabled
        value="<?php if (isset($_SESSION["overdraftLimit"])) echo
$_SESSION["overdraftLimit"]; ?>">
</div>

<!-- a div which groups the input box and it's label -->
<div class="inputbox">
    <label for="withdrawalamt">Withdrawal amount:</label>
    <!-- the withdrawalamt input box -->
    <input type="number" name="withdrawalamt" id="withdrawalamt"
        value="<?php if (isset($_SESSION["withdrawalamt"])) echo
$_SESSION["withdrawalamt"]; ?>"

```

```

        placeholder="Withdrawal amount" title="Must be above 0" min="0.01"
step="0.01" required>
    </div>

    <!-- a div which groups the buttons -->
    <div class="myButton">
        <!-- the submit button -->
        <input class="button" type="submit" value="Withdraw">
        <!-- the reset button -->
        <input class="button" type="reset" value="Cancel" onclick="cancel()">
    </div>

    <!-- hidden input that is used to tell the server that the user has confirmed
closing the current account -->
    <input type="hidden" name="confirmed" id="confirmed" value="0">

    <!-- paragraph that will be used to display a message to the user after submitting
the form -->
    <p class="display">
        <?php
            // checks if there is a message and displays it
            // there's a text button that lets the user hide the message
            if (isset($_SESSION["message"])) echo "<span onclick='hide(this)'">Click here to
hide:</span> " . $_SESSION["message"];
            // clears the message afterward
            unset($_SESSION["message"]); ?></p>
    </form>

    <!-- paragraph that will be used to display an error to the user after submitting the
form -->
    <p class="errorDisplay">
        <?php
            // checks if there is an error and displays it
            if (isset($_SESSION["errorMsg"])) echo $_SESSION["errorMsg"];
            // clears the error afterward
            unset($_SESSION["errorMsg"]); ?></p>
</main>
</body>

</html>

```

## **withdrawals.js**

```
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 10/03/2025
Withdrawals */

// function that checks the user wants to submit the form
function confirmSubmit() {
    // displays a confirmation box to the user, the form will be submitted if they press OK
    if (confirm("Are you sure you want to make this withdrawal?")) {
        // the account type needs to be POSTed, it must be enabled before submitting the
form
        document.getElementById("accounttype").disabled = false;
        // sets the hidden confirmed value for the server to read
        document.getElementById("confirmed").value = "1";
        return true;
    } else {
        return false;
    }
}
```

## withdrawals.php

```
<?php
/*
Student Name      : Darian Byrne
Student Id Number: C00296036
Date              : 10/03/2025
Withdrawals */
// start a session
session_start();
// we're doing database operations, require that file
require($_SERVER["DOCUMENT_ROOT"] . '/db.inc.php');
// declares that these variables are from another file and globally available
global $con;
// set the default timezone
date_default_timezone_set("UTC");

// gets the accountNo
$accountNo = $_POST["accountno"];

// converts and stores POSTed values to floats from strings
$withdrawalamt = floatval($_POST["withdrawalamt"]);

// checks if the withdrawal amount is below 0.01
if ($withdrawalamt < 0.01) {
    // error
    $_SESSION["errorMsg"] .= "Withdrawal amount of $withdrawalamt is too small, it must be
greater than 0!<br>";
}

// stores the SQL statement to be queried later
// gets the accountId, balance, and overdraftLimit from the current or deposit account of
the customer
// checks if the account type is deposit and replaces the missing overdraftLimit column if
it is
$sql = "SELECT accountId, balance," . ($_POST["accounttype"] == "Deposit" ? " '0' AS" : "")
. " overdraftLimit
FROM `$_POST[accounttype] Account` WHERE deletedFlag = 0 AND accountNumber =
'$_POST[accountno]'";

// checks that the sql query was successful
if (!$result = mysqli_query($con, $sql)) {
    // displays the error that caused the query to fail
    // exits the script
    die("An error in the SQL Query: " . mysqli_error($con));
}
// checks that only one account was queried
if (mysqli_num_rows($result) != 1) {
    // error
    $_SESSION["errorMsg"] .= "No record found for account number: $accountNo<br>";
} else {
    // gets the row from the result
    $row = mysqli_fetch_array($result);
    // stores the values in the row
    $accountId = $row["accountId"];
    $balance = floatval($row["balance"]);
    $overdraftLimit = floatval($row["overdraftLimit"]);
    // calculates the new balance
    $newbal = $balance - $withdrawalamt;

    // checks that the new balance is within the accounts limit
    if ($newbal < 0 - $overdraftLimit) {
        // sets the message to show to the user
    }
}
```

```

        $_SESSION["errorMsg"] .= "The withdrawal of €$_POST[withdrawalamt] from balance
        €$balance exceeds the overdraft limit of €$overdraftLimit.
        <br>The new balance would have been €$newbal.";
    }
}

// checks that there are no error messages
if (empty($_SESSION["errorMsg"])) {
    // stores the SQL statement to be queried later
    // updates a row in the current or deposit account table, uses the user input to set the
    new balance
    $sql = "UPDATE `$_POST[accounttype] Account` SET balance='$newbal' WHERE accountId =
    '$accountId'";

    // checks that the sql query was successful
    if (!mysqli_query($con, $sql)) {
        // displays the error that caused the query to fail
        // exits the script
        die("An error in the SQL Query: " . mysqli_error($con));
    }

    // gets the current date
    $now = date("Y-m-d");
    // stores the SQL statement to be queried later
    // makes the withdrawal transaction
    // checks if the account type is deposit and uses the correct column name if it is
    $sql = "INSERT INTO `$_POST[accounttype] Account History` (accountId, date,
transactionType, "
        . ($_POST["accounttype"] == "Deposit" ? "transactionAmount" : "amount") . ",
balance)
        VALUES ('$accountId', '$now', 'Withdrawal', '$_POST[withdrawalamt]', '$newbal')";

    // checks that the sql query was successful
    if (!mysqli_query($con, $sql)) {
        // displays the error that caused the query to fail
        // exits the script
        die("An error in the SQL Query: " . mysqli_error($con));
    }

    // cleanup
    session_unset();
    unset($_POST["cid"]);
    unset($_POST["accountno"]);

    // sets the message to show to the user
    $_SESSION["message"] = "Withdrawal of €$withdrawalamt made from $_POST[accounttype]
Account with Account Number: $accountNo.";
}

// closes the connection
mysqli_close($con);

```

# Individual work (Kyle Purcell)

## Add Screen

Bank

Lodgements

Withdrawals

Customer File Maintenance ^

Add a new customer

Delete a customer

Amend/View a customer

Account Maintenance v

Management Menu v

Quotes v

Reports v

Change password

First Name

Last Name

Address

Eircode

Date of Birth

Telephone Number

Occupation

Salary

Email Address

Guarantor's Name (if applicable)

Submit

Clear

## add-customer.html.php:

```
<!--
Name: Kyle Purcell
Student Number: C00301808
Date: 24/03/2025
Description: A HTML/PHP file that presents the user with a form to add a customer
-->

<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Bank</title>
<link rel="stylesheet" href="/commonStyles.css">
<link rel="stylesheet" href="./customer.css">
<link rel="stylesheet"
href="https://fonts.googleapis.com/css2?family=Material+Symbols+Outlined:opsz,wght,FILL,GRAD
@20..48,100..700,0..1,-50..200&icon_names=keyboard_arrow_down" />
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Poppins:ital,wght@0,100;0,200;0,300;0,400;0,5
00;0,600;0,700;0,800;0,900;1,100;1,200;1,300;1,400;1,500;1,600;1,700;1,800;1,900&display=swa
p" rel="stylesheet">
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Inter:ital,opsz,wght@0,14..32,100..900;1,14..
32,100..900&family=Lato:ital,wght@0,100;0,300;0,400;0,700;0,900;1,100;1,300;1,400;1,700;1,90
0&family=Merriweather:ital,wght@0,300;0,400;0,700;0,900;1,300;1,400;1,700;1,900&family=Playf
air+Display:ital,wght@0,400..900;1,400..900&family=Poppins:ital,wght@0,100;0,200;0,300;0,400
;0,500;0,600;0,700;0,800;0,900;1,100;1,200;1,300;1,400;1,500;1,600;1,700;1,800;1,900&family=
Roboto:ital,wght@0,100..900;1,100..900&display=swap" rel="stylesheet">
</head>

<body>
<?php require('../sideMenu.html'); // imports the side nav element from sideMenu.html
?>
<main>
<form action="./add-customer.php" method="post" id="add-customer-form"> <!--Add Customer
form-->
<p>
<label for="firstName">First Name</label>
<input type="text" id="firstName" name="firstName" required>
</p>
<p>
<label for="lastName">Last Name</label>
<input type="text" id="lastName" name="lastName" required>
</p>
<p>
<label for="address">Address</label>
<input type="text" name="address" id="address" required>
</p>
<p>
<label for="eircode">Eircode</label>
<input type="text" name="eircode" id="eircode" required>
</p>
<p>
<label for="dateOfBirth">Date of Birth</label>
```

```
<input type="date" name="dateOfBirth" id="dateOfBirth" required>
</p>
<p>
<label for="phoneNumber">Telephone Number</label>
<input type="text" name="phoneNumber" id="phoneNumber" required>
</p>
<p>
<label for="occupation">Occupation</label>
<input type="text" name="occupation" id="occupation" required>
</p>
<p>
<label for="salary">Salary</label>
<input type="text" name="salary" id="salary" required>
</p>
<p>
<label for="email">Email Address</label>
<input type="email" name="email" id="email" required>
</p>
<p>
<label for="guarantorName">Guarantor's Name (if applicable)</label>
<input type="text" name="guarantorName" id="guarantorName">
</p>
<div class="form-buttons">
<input id="submit" type="submit" value="Submit">
<input id="reset" type="reset" value="Clear">
</div>
</form>
</main>
<script src="./addCustomer.js"></script> <!--Links the addCustomer.js file-->
</body>
</html>
```



## add-customer.php:

```
<!-- Name: Kyle Purcell
Student Number: C00301808
Date: 24/03/2025
Description: A PHP file that presents the user with a form to add a customer -->
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Bank</title>
<link rel="stylesheet" href="/commonStyles.css">
<link rel="stylesheet" href="./customer.css">
<link rel="stylesheet"
href="https://fonts.googleapis.com/css2?family=Material+Symbols+Outlined:opsz,wght,FILL,GRAD
@20..48,100..700,0..1,-50..200&icon names=keyboard arrow down" />
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Poppins:ital,wght@0,100;0,200;0,300;0,400;0,5
00;0,600;0,700;0,800;0,900;1,100;1,200;1,300;1,400;1,500;1,600;1,700;1,800;1,900&display=swa
p" rel="stylesheet">
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Inter:ital,opsz,wght@0,14..32,100..900;1,14..
32,100..900&family=Lato:ital,wght@0,100;0,300;0,400;0,700;0,900;1,100;1,300;1,400;1,700;1,90
0&family=Merriweather:ital,wght@0,300;0,400;0,700;0,900;1,300;1,400;1,700;1,900&family=Playf
air+Display:ital,wght@0,400..900;1,400..900&family=Poppins:ital,wght@0,100;0,200;0,300;0,400
;0,500;0,600;0,700;0,800;0,900;1,100;1,200;1,300;1,400;1,500;1,600;1,700;1,800;1,900&family=
Roboto:ital,wght@0,100..900;1,100..900&display=swap" rel="stylesheet">
</head>
<body>
<?php require('../sideMenu.html'); // imports the side nav element from sideMenu.html ?>
<main>
<form action="./add-customer.html.php" method="post" id="add-customer-form"> <!--Add
Customer form-->
<p>
<label for="firstName">First Name</label>
<input type="text" id="firstName" name="firstName" required>
</p>
<p>
<label for="lastName">Last Name</label>
<input type="text" id="lastName" name="lastName" required>
</p>
<p>
<label for="address">Address</label>
<input type="text" name="address" id="address" required>
</p>
<p>
<label for="eircode">Eircode</label>
<input type="text" name="eircode" id="eircode" required>
</p>
<p>
<label for="dateOfBirth">Date of Birth</label>
<input type="date" name="dateOfBirth" id="dateOfBirth" required>
</p>
<p>
<label for="phoneNumber">Telephone Number</label>
<input type="text" name="phoneNumber" id="phoneNumber" required>
</p>
<p>
```

```

<label for="occupation">Occupation</label>
<input type="text" name="occupation" id="occupation" required>
</p>
<p>
<label for="salary">Salary</label>
<input type="text" name="salary" id="salary" required>
</p>
<p>
<label for="email">Email Address</label>
<input type="email" name="email" id="email" required>
</p>
<p>
<label for="guarantorName">Guarantor's Name (if applicable)</label>
<input type="text" name="guarantorName" id="guarantorName">
</p>
<div class="form-buttons">
<input id="submit" type="submit" value="Submit">
<input id="reset" type="reset" value="Clear">
</div>
</form>
<div class="result-container"> <!--Container for displaying query result-->
<?php
include "../db.inc.php"; // database connection file
$dbDate = date("Y-m-d", strtotime($_POST['dateOfBirth'])); // creates a date object to match
database format
$query = "INSERT INTO `Customer`
(`firstName`, `surName`, `address`, `eircode`, `dateOfBirth`, `telephoneNo`, `occupation`,
`salary`,
`emailAddress`, `guarantorName`)
VALUES ('$_POST[firstName]', '$_POST[lastName]', '$_POST[address]', '$_POST[eircode]',
'$dbDate',
'$_POST[phoneNumber]', '$_POST[occupation]', '$_POST[salary]', '$_POST[email]',
'$_POST[guarantorName]')";
$result = mysqli_query($con, $query); // executes the query
if (!$result) { // throws an error if query was unsuccessful
die("Error querying the database" . mysqli_error($con));
}
echo "<h2>No record was added to the database</h2>";
}
echo "<h2>1 record added to the database</h2>";
mysqli_close($con); // closes the database connection
?>
<form action="./add-customer.html.php" method="post" class="close-window">
<!--Close Window button wrapped in a form element that returns to the Add Customer screen-->
<button type="submit" id="return-button">
<div>
<svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24">
<title>window-close</title>
<path
d="M13.46,12L19,17.54V19H17.54L12,13.46L6.46,19H5V17.54L10.54,12L5,6.46V5H6.46L12,10.54L17.5
4,5H19V6.46L13.46,12Z" />
</svg>
</div>
</button>
</form>
</div>
</main>
<script>
document.querySelector("nav").classList.add("disabled"); // adds a disabled class to reduce
opacity
document.querySelector("#add-customer-form").classList.add("disabled");
</script>
</body></html>

```

## **addCustomer.js:**

```
/*
Name: Kyle Purcell
Student Number: C00301808
Date: 24/03/2025
Description: A JS file that adds functionality to the Add Customer webpage
*/

const form = document.querySelector("#add-customer-form"); // selects the form element

function confirmChanges() {
// if the user confirms changes, it submits the form. Otherwise, it returns to the screen
let response = confirm("Are you sure you want to add a new customer?");
if (response) {
return true;
} else {
return false;
}
}

form.addEventListener("submit", confirmChanges); // event listener that invokes the
confirmChanges function when form submits
```

# Delete Screen



Lodgements

Withdrawals

Customer File Maintenance ^

Add a new customer

Delete a customer

Amend/View a customer

Account Maintenance v

Management Menu v

Quotes v

Reports v

Change password

Select a customer

1 - Will Doyle

Confirm Selection

## Delete-customer.html.php:

```
<!--Name: Kyle Purcell
Student Number: C00301808
Date: 24/03/2025
Description: A HTML/PHP file that presents the user with a form to delete a customer -->
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<link rel="stylesheet" href="/commonStyles.css">
<link rel="stylesheet" href="./customer.css">
<link rel="stylesheet"
href="https://fonts.googleapis.com/css2?family=Material+Symbols+Outlined:opsz,wght,FILL,GRAD
@20..48,100..700,0..1,-50..200&icon names=keyboard arrow down" />
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Poppins:ital,wght@0,100;0,200;0,300;0,400;0,5
00;0,600;0,700;0,800;0,900;1,100;1,200;1,300;1,400;1,500;1,600;1,700;1,800;1,900&display=swa
p" rel="stylesheet">
</head>
<body>
<?php require('../sideMenu.html'); // includes the side nav element in sideMenu.html
?>
<main>
<form action="./delete-customer.php" method="post" id="delete-customer-form"> <!--Delete
Customer form-->
<p>
<label for="select-customer">Select a customer</label>
<select name="customerDropdown" id="select-customer">
<?php // renders all customers from the Customer table in the database as option elements
include "../db.inc.php"; // connects to the database
if (!$con) { // throws a connection error if connection fails
die("Database connection failed" . mysqli_connect_error());
}
$sql = "SELECT customerNo, firstName, surName FROM Customer WHERE deletedFlag=0";
$result = mysqli_query($con, $sql); // executes the SQL query
if (!$result) {
// throws an error if the SQL query fails
die("Error in querying the database" . mysqli_error($con));
}
if (mysqli_num_rows($result) === 0) {
// throws an error if no rows are selected
die("No customers found in the Customer table");
}
while ($row = mysqli_fetch_array($result)) {
// creates an option element for each customer by appending values from each result row
$customerID = $row['customerNo'];
$firstName = $row['firstName'];
$surname = $row['surName'];
echo "<option value='{$customerID}'>{$customerID} - {$firstName} {$surname}</option>";
}
mysqli_close($con); // closes the database connection
?></select></p>
<div class="form-buttons">
<input type="submit" value="Confirm Selection" id="confirm-button">
</div></form>
</main><script src="./deleteCustomer.js"></script> <!--Links the deleteCustomer.js file-->
</body></html>
```

## delete-customer.php:

```
<!--
Name: Kyle Purcell
Student Number: C00301808
Date: 24/03/2025
Description: A PHP file that presents the user with a form to delete a customer
-->

<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<link rel="stylesheet" href="/commonStyles.css">
<link rel="stylesheet" href="./customer.css">
<link rel="stylesheet"
href="https://fonts.googleapis.com/css2?family=Material+Symbols+Outlined:opsz,wght,FILL,GRAD
@20..48,100..700,0..1,-50..200&icon_names=keyboard_arrow_down" />
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Poppins:ital,wght@0,100;0,200;0,300;0,400;0,5
00;0,600;0,700;0,800;0,900;1,100;1,200;1,300;1,400;1,500;1,600;1,700;1,800;1,900&display=swa
p" rel="stylesheet">
</head>

<body>
<?php require('../sideMenu.html'); ?>
<main>
<form action="./delete-customer.html.php" method="post" id="delete-customer-form"> <!--
Delete Customer form-->
<p>
<label for="select-customer">Select a customer</label>
<select name="customerDropdown" id="select-customer">
<?php // renders all customers from the Customer table in the database as option elements
include "../db.inc.php"; // connects to the database

if (!$con) { // throws a connection error if connection fails
die("Database connection failed" . mysqli_connect_error());
}

$sql = "SELECT customerNo, firstName, surName FROM Customer WHERE deletedFlag=0";
$result = mysqli_query($con, $sql); // executes the SQL query
if (!$result) {
// throws an error if the SQL query fails
die("Error in querying the database" . mysqli_error($con));
}

if (mysqli_num_rows($result) === 0) {
// throws an error if no rows are selected
die("No customers found in the Customer table");
}

echo "Connected to database.";
echo "<br>Query executed successfully.";

while ($row = mysqli_fetch_array($result)) {
// creates an option element for each customer by appending values from each result row
$customerID = $row['customerNo'];
```

```

$firstName = $row['firstName'];
$surname = $row['surName'];
echo "<option value='{${customerID}}'>{${customerID}} - {${firstName}} {${surname}}</option>";
}

mysqli_close($con); // closes the database connection
?>
</select>
</p>
<div class="form-buttons">
<input type="submit" value="Confirm Selection" id="confirm-button">
</div>
</form>
<div class="result-container"> <!--Container that displays the result of the SQL query-->
<?php
include "../db.inc.php"; // connects to the database
$query = "UPDATE Customer SET deletedFlag=1 WHERE customerNo='$_POST[customerDropdown]'";
$result = mysqli_query($con, $query); // executes the SQL query

if (!$result) {
// throws an error if SQL query is unsuccessful
die("Error querying the database" . mysqli_error($con));
echo "<h2>No records were deleted from the database</h2>";
}

echo "<h2>1 record deleted from the database</h2>";

mysqli_close($con); // closes the database connection
?>
<form action="../delete-customer.html.php" method="post" class="close-window">
<!--Close window button wrapped in a form element that returns to the previous screen-->
<button type="submit" id="return-button">
<div>
<svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24">
<title>window-close</title>
<path
d="M13.46,12L19,17.54V19H17.54L12,13.46L6.46,19H5V17.54L10.54,12L5,6.46V5H6.46L12,10.54L17.5
4,5H19V6.46L13.46,12Z" />
</svg>
</div>
</button>
</form>
</div>
</main>
<script>
document.querySelector("nav").classList.add("disabled"); // adds the disabled class which
reduces opacity
document.querySelector("#delete-customer-form").classList.add("disabled");
</script>
</body>

</html>

```

## **deleteCustomer.js:**

```
/*
Name: Kyle Purcell
Student Number: C00301808
Date: 24/03/2025
Description: A JS file that adds functionality to the Delete Customer screen
*/


const form = document.querySelector("#delete-customer-form"); // selects the form element

function confirmDeletion() {
// if the users confirms deletion, it submits the form. Otherwise, it returns to the
previous screen
let response = confirm("Are you sure you want to delete this customer?");
if (response) {
return true;
} else {
return false;
}
}

// event listener that invokes the confirmDeletion function when the form submits
form.addEventListener("submit", confirmDeletion);
```



## Amend/View Screen



Lodgements

Withdrawals

Customer File Maintenance ^

Add a new customer

Delete a customer

Amend/View a customer

Account Maintenance v

Management Menu v

Quotes v

Reports v

Change password

Select a customer1 - Will Doyle

Amend Details

Customer ID

1

First Name

Will

Last Name

Doyle

Address

SETU Carlow Campus

Eircode

Kilkenny Rd

Date of Birth

dd/mm/yyyy

Telephone Number

R93 V960

Occupation

2003-05-15

Salary

0891234567

Email Address

Student

Guarantor's Name (if applicable)

0.00

Submit

Clear

## amend-view-customer.html.php:

```
<!--
Name: Kyle Purcell
Student Number: C00301808
Date: 24/03/2025
Description: A HTML/PHP file that presents the user with a form to amend and/or view a
customer
-->

<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<link rel="stylesheet" href="/commonStyles.css">
<link rel="stylesheet" href="./customer.css">
<link rel="stylesheet"
href="https://fonts.googleapis.com/css2?family=Material+Symbols+Outlined:opsz,wght,FILL,GRAD
@20..48,100..700,0..1,-50..200&icon_names=keyboard_arrow_down" />
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Poppins:ital,wght@0,100;0,200;0,300;0,400;0,5
00;0,600;0,700;0,800;0,900;1,100;1,200;1,300;1,400;1,500;1,600;1,700;1,800;1,900&display=swa
p" rel="stylesheet">
</head>

<body>
<?php require('../sideMenu.html'); // includes the side nav element in sideMenu.html
?>
<main>
<form action="amend-view-customer.php" method="post" id="amend-view-customer-form">
<!--Amend/View a Customer form-->
<p>
<label for="select-customer">Select a customer</label>
<select name="customer-dropdown" id="select-customer">
<?php include('../listbox.php') // includes the listbox.php file that renders customer list
?>
</select>
</p>
<p class="amend-view-button-container">
<!--Button that enables user to toggle between Amend Customer and View Customer mode-->
<input type="button" value="Amend Details" id="amend-view-button">
</p>
<p>
<label for="customerID">Customer ID</label>
<input type="text" name="customerID" id="customerID">
</p>
<p>
<label for="firstName">First Name</label>
<input type="text" id="firstName" name="firstName" required>
</p>
<p>
<label for="lastName">Last Name</label>
<input type="text" id="lastName" name="lastName" required>
</p>
<p>
<label for="address">Address</label>
<input type="text" name="address" id="address" required>
```

```

</p>
<p>
<label for="eircode">Eircode</label>
<input type="text" name="eircode" id="eircode" required>
</p>
<p>
<label for="dateOfBirth">Date of Birth</label>
<input type="date" name="dateOfBirth" id="dateOfBirth" required>
</p>
<p>
<label for="phoneNumber">Telephone Number</label>
<input type="text" name="phoneNumber" id="phoneNumber" required>
</p>
<p>
<label for="occupation">Occupation</label>
<input type="text" name="occupation" id="occupation" required>
</p>
<p>
<label for="salary">Salary</label>
<input type="text" name="salary" id="salary" required>
</p>
<p>
<label for="email">Email Address</label>
<input type="email" name="email" id="email" required>
</p>
<p>
<label for="guarantorName">Guarantor's Name (if applicable)</label>
<input type="text" name="guarantorName" id="guarantorName">
</p>
<p class="form-buttons">
<input type="submit" value="Submit" id="submit">
<input type="reset" value="Clear" id="reset">
</p>
</form>
</main>
<script src="./amendView.js"></script> <!--Links the amendView.js file-->
</body>

</html>

```

## amend-view-customer.php:

```
<!-- Name: Kyle Purcell
Student Number: C00301808
Date: 24/03/2025
Description: A PHP file that presents the user with a form to amend and/or view a customer
-->
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Return to Amend/View a Customer</title>
<link rel="stylesheet" href="./customer.css">
<link rel="stylesheet" href="../commonStyles.css">
</head>
<body>
<?php require('../sideMenu.html'); // includes the side nav element in sideMenu.html
?>
<main>
<form action="amend-view-customer.php" method="post" id="amend-view-customer-form">
<!--Amend/View a Customer form-->
<p>
<label for="select-customer">Select a customer</label>
<select name="customer-dropdown" id="select-customer">
<?php include('../listbox.php') // includes the listbox.php file that renders customer list
?>
</select>
</p>
<p class="amend-view-button-container">
<!--Button that enables user to toggle between Amend Customer and View Customer mode-->
<input type="button" value="Amend Details" id="amend-view-button">
</p>
<p>
<label for="customerID">Customer ID</label>
<input type="text" name="customerID" id="customerID">
</p>
<p>
<label for="firstName">First Name</label>
<input type="text" id="firstName" name="firstName" required>
</p>
<p>
<label for="lastName">Last Name</label>
<input type="text" id="lastName" name="lastName" required>
</p>
<p>
<label for="address">Address</label>
<input type="text" name="address" id="address" required>
</p>
<p>
<label for="eircode">Eircode</label>
<input type="text" name="eircode" id="eircode" required>
</p>
<p>
<label for="dateOfBirth">Date of Birth</label>
<input type="date" name="dateOfBirth" id="dateOfBirth" required>
</p>
<p>
<label for="phoneNumber">Telephone Number</label>
<input type="text" name="phoneNumber" id="phoneNumber" required>
</p>
<p>
```

```

<label for="occupation">Occupation</label>
<input type="text" name="occupation" id="occupation" required>
</p>
<p>
<label for="salary">Salary</label>
<input type="text" name="salary" id="salary" required>
</p>
<p>
<label for="email">Email Address</label>
<input type="email" name="email" id="email" required>
</p>
<p>
<label for="guarantorName">Guarantor's Name (if applicable)</label>
<input type="text" name="guarantorName" id="guarantorName">
</p>
<p class="form-buttons">
<input type="submit" value="Submit" id="submit">
<input type="reset" value="Clear" id="reset">
</p>
</form>
<div class="result-container"> <!--Container that displays the result of the SQL query-->
<?php include "../db.inc.php"; // connects to the database
// create a date object from the posted date of birth value to match the database table
format
$dbDate = date("Y-m-d", strtotime($_POST['dateOfBirth']));
$query = "UPDATE Customer SET
firstName='$_POST[firstName]', surName='$_POST[lastName]', address='$_POST[address]',
eircode='$_POST[eircode]', dateOfBirth='$_POST[dateOfBirth]',
telephoneNo='$_POST[phoneNumber]',
occupation='$_POST[occupation]', salary='$_POST[salary]', emailAddress='$_POST[email]',
guarantorName='$_POST[guarantorName]' WHERE customerNo='$_POST[customerID]';
$result = mysqli_query($con, $query); // executes the SQL query
if (!$result) {
// throws an error if the SQL query is unsuccessful
die("Error submitting query to the database" . mysqli_error($con));
}
if (mysqli_affected_rows($con) != 0) {
// if at least one row in the table was affected by the SQL query
echo "<h2>";
echo mysqli_affected_rows($con) . " record(s) updated";
echo "</h2>";
} else {
// if no rows in the table were affected by the SQL query
echo "<h2>No records were changed</h2>";
}
mysqli_close($con); // closes the database connection ?>
<form action="../amend-view-customer.html.php" method="post" class="close-window">
<!--Close window button wrapped in a form element that returns to the previous screen-->
<button type="submit" id="return-button">
<div>
<svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24">
<title>window-close</title>
<path
d="M13.46,12L19,17.54V19H17.54L12,13.46L6.46,19H5V17.54L10.54,12L5,6.46V5H6.46L12,10.54L17.5
4,5H19V6.46L13.46,12Z" />
</svg>
</div></button></form></div></main>
<script>
document.querySelector("nav").classList.add("disabled"); // adds the disabled class which
reduces opacity
document.querySelector("#amend-view-customer-form").classList.add("disabled");
</script></body></html>

```

## amendView.js:

```
/*
Name: Kyle Purcell
Student Number: C00301808
Date: 24/03/2025
Description: A JS file that adds functionality to the Amend/View a Customer screen
*/

// select all relevant DOM elements using a querySelector method
const select = document.querySelector("#select-customer");
const options = document.querySelectorAll("option");
const formInputs = document.querySelectorAll("input:not(.form-buttons > input, #amend-view-button)");
const customerIDInput = document.querySelector("#customerID");
const amendViewBtn = document.querySelector("#amend-view-button");
const form = document.querySelector("form");

// event listener that invokes a callback function when DOM content has fully loaded
document.addEventListener("DOMContentLoaded", () => {
// sets all necessary form inputs to disabled to prevent user making changes
formInputs.forEach((input) => {
input.disabled = true;
})
})

// function that fills the input fields
function populateFields() {
const result = select.options[select.selectedIndex].value; // stores the current selected value in result
const customerDetails = result.split(","); // returns result as an array, with each element split by a comma
// adds the corresponding value to the corresponding input field
formInputs.forEach((input, index) => {
input.value = customerDetails[index];
});
}

// function that clears the necessary form input fields
function depopulateFields() {
formInputs.forEach((input) => {
input.value = "";
})
}

// function that selects a customer by their ID value
function selectCustomerByID() {
if (customerIDInput.value) { // if the customer ID input field contains a value
let customerID = customerIDInput.value;
select.value = options[customerID - 1].value; // assigns the select element value to be the index of the customer ID subtract 1
populateFields(); // invokes the populateFields function
} else {
depopulateFields(); // invokes the depopulateFields function
}
}

// function that toggles between Amend Details and View Details mode
function toggleSwitch() {
if (amendViewBtn.value === "Amend Details") {
```

```

amendViewBtn.value = "View Details"; // assigns the value "View Details" if the value is
currently "Amend Details"
enableFormInputs(); // invokes the enableFormInputs function to enable form inputs
} else {
amendViewBtn.value = "Amend Details";
disableFormInputs(); // invokes the disableFormInputs function to disable form inputs
}
}

// function that sets the necessary form inputs to be disabled
function disableFormInputs() {
formInputs.forEach((input) => {
input.disabled = true;
})
}

// function that sets the necessary form inputs to be enabled
function enableFormInputs() {
formInputs.forEach((input) => {
input.disabled = false;
})
}

// function that prompts the user to confirm their changes
function confirmDetails() {
let response = confirm("Are you sure you want to amend this customer's details?");

if (response) {
// if the user confirms, invokes the enableFormInputs function before submitting the form
enableFormInputs();
return true;
} else {
// if the user cancels, invokes the populateFields function to repopulate the input fields
populateFields();
return false;
}
}

// function that displays a confirmation dialog
function showConfirmation() {
const main = document.querySelector("main"); // selects the main HTML element in the DOM
const confirmationDialog = document.createElement("dialog"); // creates a dialog HTML
element
const confirmation = document.createElement("h2"); // creates a h2 HTML element
confirmation.textContent = "The selected customer has been successfully amended";

confirmationDialog.appendChild(confirmation); // appends the h2 element to the dialog
element
main.appendChild(confirmationDialog); // appends the dialog element to the main element
}

select.addEventListener("click", populateFields); // event listener that invokes
populateFields when a click event occurs on the select element

customerIDInput.addEventListener("input", selectCustomerByID); // event listener that
invokes selectCustomerByID when an input event occurs on the customer ID input element

amendViewBtn.addEventListener("click", toggleSwitch); // event listener that invokes
toggleSwitch when a click event occurs on the Amend Details button

form.addEventListener("submit", confirmDetails); // event listner that invokes
confirmDetails when the form submits

```

## **listbox.php:**

```
<!--
Name: Kyle Purcell
Student Number: C00301808
Date: 24/03/2025
Description: A PHP file that renders a list of option elements that contain values from the
Customer table
-->

<?php
include "../db.inc.php"; // connects to the database
date_default_timezone_set("UTC"); // sets the default timezone to UTC

if (!$con) { // throws an error if an error occurs connecting to the database
die("Database connection failed" . mysqli_connect_error());
}

$sql = "SELECT * FROM Customer WHERE deletedFlag=0"; // select all customers from the
Customer table that have not been deleted
$result = mysqli_query($con, $sql); // execute SQL query


if (!$result) { // throws an error if SQL query fails
die("Error fetching query from the database" . mysqli_error($con));
}

while ($row = mysqli_fetch_array($result)) { // while a row from the SQL query result set is
returned and exists
$customerID = $row['customerNo'];
$firstName = $row['firstName'];
$lastName = $row['surName'];
$address = $row['address'];
$eircode = $row['eircode'];
$dateOfBirth = $row['dateOfBirth'];
$telephoneNo = $row['telephoneNo'];
$occupation = $row['occupation'];
$salary = $row['salary'];
$email = $row['emailAddress'];
$guarantorName = $row['guarantorName'];
$values =
"$customerID,$firstName,$lastName,$address,$eircode,$dateOfBirth,$telephoneNo,$occupation,$s
alary,$email,$guarantorName";
echo "<option value='{$values}'>{$customerID} - {$firstName} {$lastName}</option>";
}

mysqli_close($con); // closes the database connection
```



## Lodgements Screen



Lodgements

Withdrawals

Customer File Maintenance

Account Maintenance

Management Menu

Quotes

Reports

Change password

Select an account type

Current Account

Select an account

1 - Will Doyle - 18883297

Customer ID

1

Account Number

18883297

Account ID

82

Balance

200.00

First Name

Will

Last Name

Doyle

Address

SETU Carlow Campus, Kilkenny Rd, Carlow

Date of Birth

15/05/2003

Telephone Number

0891234567

Email Address

student@setu.ie

Lodgement Amount

0

Confirm

## lodgements.html.php:

```
<!--
Name: Kyle Purcell
Student Number: C00301808
Date: 24/03/2025
Description: A HTML/PHP file that presents the user with a form to make a lodgement into an account
-->

<?php session_start();
// when user submits the form and values are posted
if ($_SERVER['REQUEST_METHOD'] == 'POST' && isset($_POST['accountType'], $_POST['account-
dropdown'])) {
$_SESSION['accountType'] = $_POST['accountType']; // creates PHP session variables
$_SESSION['selectedAccount'] = $_POST['account-dropdown'];
}
?>
<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Lodgements</title>
<?php require("../head.html") // links the head.html file
?>
<link rel="stylesheet" href="../customer.css" />
</head>

<body>
<?php require("../sideMenu.html") // includes the side nav element in sideMenu.html
?>
<main>
<form action="../lodgements.php" method="post" name="lodgementsForm" id="lodgements-form">
<p>
<label for="account-type">Select an account type</label>
<select name="accountType" id="account-type">
<!--If the session variable accountType is equal to the account type, it selects the option
element-->
<option value="currentAccount" <?php echo (isset($_SESSION['accountType'])) &&
$_SESSION['accountType'] == 'currentAccount') ? 'selected' : '' ?>>Current Account</option>
<option value="depositAccount" <?php echo (isset($_SESSION['accountType'])) &&
$_SESSION['accountType'] == 'depositAccount') ? 'selected' : '' ?>>Deposit Account</option>
<option value="loanAccount" <?php echo (isset($_SESSION['accountType'])) &&
$_SESSION['accountType'] == 'loanAccount') ? 'selected' : '' ?>>Loan Account</option>
</select>
</p>
<p>
<label for="account-dropdown">Select an account</label>
<select name="account-dropdown" id="account-dropdown">
<?php require("../lodgementsListbox.php") // renders the customer accounts
?>
</select>
</p>
<p>
<label for="customerID">Customer ID</label>
<input type="text" name="customerID" id="customerID">
</p>
<p>
<label for="accountNumber">Account Number</label>
<input type="text" name="accountNumber" id="accountNumber">
```

```

</p>
<p>
<label for="accountID">Account ID</label>
<input type="text" name="accountID" id="accountID">
</p>
<p>
<label for="balance">Balance</label>
<input type="text" name="balance" id="balance">
</p>
<p>
<label for="firstName">First Name</label>
<input type="text" id="firstName" name="firstName" required>
</p>
<p>
<label for="lastName">Last Name</label>
<input type="text" id="lastName" name="lastName" required>
</p>
<p>
<label for="address">Address</label>
<input type="text" name="address" id="address" required>
</p>
<p>
<label for="dateOfBirth">Date of Birth</label>
<input type="date" name="dateOfBirth" id="dateOfBirth" required>
</p>
<p>
<label for="phoneNumber">Telephone Number</label>
<input type="text" name="phoneNumber" id="phoneNumber" required>
</p>
<p>
<label for="email">Email Address</label>
<input type="email" name="email" id="email" required>
</p>
<p>
<label for="lodgementAmount">Lodgement Amount</label>
<input type="text" name="lodgementAmount" id="lodgementAmount">
</p>
<div class="form-buttons">
<input type="submit" value="Confirm" id="submitBtn" name="submitBtn">
</div>
</form>
</main>

<script src="./lodgement.js"></script> <!--Links the lodgement.js file-->
</body>

</html>

```

## lodgements.php:

```
<!--
Name: Kyle Purcell
Student Number: C00301808
Date: 24/03/2025
Description: A PHP file that presents the user with a form to make a lodgement into an
account
-->

<?php session_start();
// when user submits the form and values are posted
if ($_SERVER['REQUEST_METHOD'] == 'POST' && isset($_POST['accountType'], $_POST['account-
dropdown'])) {
$_SESSION['accountType'] = $_POST['accountType']; // creates PHP session variables
$_SESSION['selectedAccount'] = $_POST['account-dropdown'];
}
?>
<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Lodgements</title>
<?php require("../head.html") // links the head.html file
?>
<link rel="stylesheet" href="../customer.css" />
</head>

<body>
<?php require("../sideMenu.html") // includes the side nav element in sideMenu.html
?>
<main>
<form action="../lodgements.html.php" method="post" name="lodgementsForm" id="lodgements-
form">
<p>
<label for="account-type">Select an account type</label>
<select name="accountType" id="account-type">
<!--If the session variable accountType is equal to the account type, it selects the option
element-->
<option value="currentAccount" <?php echo (isset($_SESSION['accountType'])) &&
$_SESSION['accountType'] == 'currentAccount') ? 'selected' : '' ?>>Current Account</option>
<option value="depositAccount" <?php echo (isset($_SESSION['accountType'])) &&
$_SESSION['accountType'] == 'depositAccount') ? 'selected' : '' ?>>Deposit Account</option>
<option value="loanAccount" <?php echo (isset($_SESSION['accountType'])) &&
$_SESSION['accountType'] == 'loanAccount') ? 'selected' : '' ?>>Loan Account</option>
</select>
</p>
<p>
<label for="account-dropdown">Select an account</label>
<select name="account-dropdown" id="account-dropdown">
<?php require("../lodgementsListbox.php") // renders the customer accounts
?>
</select>
</p>
<p>
<label for="customerID">Customer ID</label>
<input type="text" name="customerID" id="customerID">
</p>
<p>
<label for="accountNumber">Account Number</label>
```

```

<input type="text" name="accountNumber" id="accountNumber">
</p>
<p>
<label for="accountID">Account ID</label>
<input type="text" name="accountID" id="accountID">
</p>
<p>
<label for="balance">Balance</label>
<input type="text" name="balance" id="balance">
</p>
<p>
<label for="firstName">First Name</label>
<input type="text" id="firstName" name="firstName" required>
</p>
<p>
<label for="lastName">Last Name</label>
<input type="text" id="lastName" name="lastName" required>
</p>
<p>
<label for="address">Address</label>
<input type="text" name="address" id="address" required>
</p>
<p>
<label for="dateOfBirth">Date of Birth</label>
<input type="date" name="dateOfBirth" id="dateOfBirth" required>
</p>
<p>
<label for="phoneNumber">Telephone Number</label>
<input type="text" name="phoneNumber" id="phoneNumber" required>
</p>
<p>
<label for="email">Email Address</label>
<input type="email" name="email" id="email" required>
</p>
<p>
<label for="lodgementAmount">Lodgement Amount</label>
<input type="text" name="lodgementAmount" id="lodgementAmount">
</p>
<div class="form-buttons">
<input type="submit" value="Confirm" id="submitBtn" name="submitBtn">
</div>
</form>
</main>

<script src="./lodgement.js"></script> <!--Links the lodgement.js file-->
</body>

</html>

```

## lodgement.js:

```
/*
Name: Kyle Purcell
Student Number: C00301808
Date: 24/03/2025
Description: A JS file that adds functionality to the Lodgements screen
*/

// document event listener that invokes a callback function when DOM content is loaded
document.addEventListener("DOMContentLoaded", () => {
// selects elements in the DOM
const form = document.querySelector("#lodgements-form");
const accountTypeDropdown = document.querySelector("#account-type");
const customerAccountDropdown = document.querySelector("#account-dropdown");
const customerOptions = document.querySelectorAll("#account-dropdown > option");
const formInputs = document.querySelectorAll("input:not(#submitBtn)");
const customerIDInput = document.querySelector("#customerID");
const accountNumberInput = document.querySelector("#accountNumber");
const lodgementAmount = document.querySelector("#lodgementAmount");

// event listener that invokes a callback function when the select value changes
accountTypeDropdown.addEventListener("change", () => {
enableFormInputs(); // invokes the enableFormInputs function
form.submit(); // submits the form
})
// function that retrieves the selected customer account's values and populates the input
fields
// with their corresponding values
function populateFields() {
const result = customerAccountDropdown.options[customerAccountDropdown.selectedIndex].value;
const customerDetails = result.split(";");
formInputs.forEach((input, index) => {
input.value = customerDetails[index];
});
lodgementAmount.value = 0;
}
// function that clears the values from the input fields
function depopulateFields() {
formInputs.forEach((input) => {
input.value = "";
})
}
// function that selects a customer by their ID and populates the input fields
function selectCustomerByID() {
if (customerIDInput.value) {
let customerID = customerIDInput.value;
customerAccountDropdown.value = customerOptions[customerID - 1].value;
populateFields();
} else {
depopulateFields();
}
}
// function that selects a customer by their account number and populates the input fields
function selectCustomerByAccountNumber() {
if (accountNumberInput.value) {
let accountNumber = accountNumberInput.value;
let customerArray = Array.from(customerOptions); // creates an array from the customer
options node list
let accountNumbers = customerArray.map((option) => {
// map returns a new array from the data in customerArray
let result = option.value.split(";"); // returns the values as an array, split by ";"

```

```

return result[1]; // returns the element at index 1 (accountNumber)
})
for (let i = 0; i < accountNumbers.length; i++) {
// loop through each accountNumber and check if it matches the account number input field's
value
if (accountNumbers[i] == accountNumberInput.value) {
// if true, customerAccountDropdown value is assigned the value of the customer account
option element
customerAccountDropdown.value= customerOptions[i].value;
populateFields();
}
}
} else {
depopulateFields();
}
}
// function that disables form inputs
function disableFormInputs() {
formInputs[2].disabled = true;
formInputs[3].disabled = true;
formInputs[4].disabled = true;
formInputs[5].disabled = true;
formInputs[6].disabled = true;
formInputs[7].disabled = true;
formInputs[8].disabled = true;
formInputs[9].disabled = true;
}

// function that enables form inputs
function enableFormInputs() {
formInputs.forEach((input) => {
input.disabled = false;
})
}
// function that prompts the user to confirm their changes
function confirmLodgement() {
let lodgementAmount = document.querySelector("#lodgementAmount");
let response = confirm(`Are you sure you want to lodge the following amount:
${lodgementAmount.value}?`);
if (response) { // user clicks confirm
form.action = "../transaction.php"; // sets the action of the form element
enableFormInputs();
return true;
} else { // user clicks cancel
depopulateFields();
return false;
}
}

populateFields(); // invokes populateFields when DOM content is loaded
disableFormInputs(); // invokes disableFormInputs when DOM content is loaded
// event listener that invokes populateFields when user clicks on customer account dropdown
customerAccountDropdown.addEventListener("click", populateFields);
// event listener that invokes selectCustomerByID when user types in the customer ID input
field
customerIDInput.addEventListener("input", selectCustomerByID);
// event listener that invokes selectCustomerByAccountNumber when user types in the account
number input field
accountNumberInput.addEventListener("input", selectCustomerByAccountNumber);
// event listener that invokes confirmLodgement when user submits the form
form.addEventListener("submit", confirmLodgement);
})

```

## lodgementsListbox.php:

```
<!--
Name: Kyle Purcell
Student Number: C00301808
Date: 24/03/2025
Description: A PHP file that renders a list of all current, deposit and loan accounts
-->

<?php
session_start(); // starts the PHP session
require "../db.inc.php"; // connects to the database
date_default_timezone_set("UTC"); // sets the default timezone to UTC

// when user submits the form and values are posted
if ($_SERVER['REQUEST_METHOD'] == 'POST' && isset($_POST['accountType'], $_POST['account-
dropdown'])) {
$_SESSION['accountType'] = $_POST['accountType']; // creates PHP session variables
$_SESSION['selectedAccount'] = $_POST['account-dropdown'];
}

// creates variable accountType and assigns it the value of the accountType session variable
// if it exists, otherwise assigns it an empty string
$accountType = isset($_SESSION['accountType']) ? $_SESSION['accountType'] : '';

$sql = ""; // declares an empty variable called sql

// assigns the variable sql with the relevant SQL query statement that corresponds to the
selected account type
switch ($accountType) {
case "currentAccount":
$sql = "SELECT `Customer`.`customerNo`, `Customer`.`firstName`, `Customer`.`surName`,
`Customer`.`address`, `Customer`.`eircode`, `Customer`.`dateOfBirth`,
`Customer`.`telephoneNo`, `Customer`.`occupation`, `Customer`.`salary`,
`Customer`.`emailAddress`, `Customer`.`guarantorName`, `Current Account`.`accountId`,
`Current Account`.`accountNumber`, `Current Account`.`balance` FROM
`Customer/CurrentAccount` INNER JOIN `Customer` ON
`Customer/CurrentAccount`.`customerNo`=`Customer`.`customerNo` INNER JOIN `Current Account`
ON `Customer/CurrentAccount`.`accountId`=`Current Account`.`accountId` WHERE
`Customer`.`deletedFlag`=0";
break;
case "depositAccount":
$sql = "SELECT `Customer`.`customerNo`, `Customer`.`firstName`, `Customer`.`surName`,
`Customer`.`address`, `Customer`.`eircode`, `Customer`.`dateOfBirth`,
`Customer`.`telephoneNo`, `Customer`.`occupation`, `Customer`.`salary`,
`Customer`.`emailAddress`, `Customer`.`guarantorName`, `Deposit Account`.`accountId`,
`Deposit Account`.`accountNumber`, `Deposit Account`.`balance` FROM `Customer/Deposit
Account` INNER JOIN `Customer` ON `Customer/Deposit
Account`.`customerNo`=`Customer`.`customerNo` INNER JOIN `Deposit Account` ON
`Customer/Deposit Account`.`accountId`=`Deposit Account`.`accountId` WHERE
`Customer`.`deletedFlag`=0";
break;
case "loanAccount":
$sql = "SELECT `Customer`.`customerNo`, `Customer`.`firstName`, `Customer`.`surName`,
`Customer`.`address`, `Customer`.`eircode`, `Customer`.`dateOfBirth`,
`Customer`.`telephoneNo`, `Customer`.`occupation`, `Customer`.`salary`,
`Customer`.`emailAddress`, `Customer`.`guarantorName`, `Loan Account`.`accountId`, `Loan
Account`.`accountNumber`, `Loan Account`.`balance`, `Loan Account`.`loanAmount` FROM
`Customer/LoanAccount` INNER JOIN `Customer` ON
`Customer/LoanAccount`.`customerNo`=`Customer`.`customerNo` INNER JOIN `Loan Account` ON
`Customer/LoanAccount`.`accountId`=`Loan Account`.`accountId` WHERE
`Customer`.`deletedFlag`=0";
```



```

break;
default: // default SQL query if none above match
$sql = "SELECT `Customer`.`customerNo`, `Customer`.`firstName`, `Customer`.`surName`,
`Customer`.`address`, `Customer`.`eircode`, `Customer`.`dateOfBirth`,
`Customer`.`telephoneNo`, `Customer`.`occupation`, `Customer`.`salary`,
`Customer`.`emailAddress`, `Customer`.`guarantorName`, `Current Account`.`accountId`,
`Current Account`.`accountNumber`, `Current Account`.`balance` FROM
`Customer/CurrentAccount` INNER JOIN `Customer` ON
`Customer/CurrentAccount`.`customerNo`=`Customer`.`customerNo` INNER JOIN `Current Account`
ON `Customer/CurrentAccount`.`accountId`=`Current Account`.`accountId` WHERE
`Customer`.`deletedFlag`=0";
break;
}

$result = mysqli_query($con, $sql); // executes the SQL query

if (!$result) { // throws an error if the SQL query is unsuccessful
die("Error querying the database" . mysqli_error($con));
}

// if no rows are returned in the result set from the SQL query
if (mysqli_num_rows($result) == 0) {
echo "No rows";
}

// while a row is returned from the result set and exists: creates an option element and
assigns it the below values
while ($row = mysqli_fetch_array($result)) {
$_SESSION['loanBalance'] = $row['balance'];
$customerID = $row['customerNo'];
$firstName = $row['firstName'];
$lastName = $row['surName'];
$address = $row['address'];
$dob = $row['dateOfBirth'];
$telephone = $row['telephoneNo'];
$email = $row['emailAddress'];
$accountID = $row['accountId'];
$accountNumber = $row['accountNumber'];
$balance = $row['balance'];
$values =
"$customerID;$accountNumber;$accountID;$balance;$firstName;$lastName;$address;$dob;$telephon
e;$email";
$selected = ($_SESSION['selectedAccount'] == $values) ? 'selected' : '';

echo "<option value='{ $values}' { $selected}>{ $customerID} - { $firstName} { $lastName} -
{ $accountNumber}</option>";
}

mysqli_close($con); // closes the database connection

```

## transaction.php:

```
<!--
Name: Kyle Purcell
Student Number: C00301808
Date: 24/03/2025
Description: A HTML/PHP file that displays the result of a lodgement attempt
-->
<?php session_start();
// when user submits the form and values are posted
if ($_SERVER['REQUEST_METHOD'] == 'POST' && isset($_POST['accountType'])) {
$_SESSION['accountType'] = $_POST['accountType']; // creates PHP session variables
$_SESSION['selectedAccount'] = $_POST['account-dropdown'];
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Lodgements</title>
<?php require("../head.html") // links the head.html file
?>
<link rel="stylesheet" href="../customer.css" />
</head>
<body>
<?php require("../sideMenu.html") // includes the side nav element in sideMenu.html
?>
<main>
<h1>Transaction Page</h1>
<form action="../lodgements.html.php" method="post" name="lodgementsForm" id="lodgements-form">
<p>
<label for="account-type">Select an account type</label>
<select name="accountType" id="account-type">
<!--If the session variable accountType is equal to the account type, it selects the option element-->
<option value="currentAccount" <?php echo (isset($_SESSION['accountType'])) && $_SESSION['accountType'] == 'currentAccount' ? 'selected' : '' ?>>Current Account</option>
<option value="depositAccount" <?php echo (isset($_SESSION['accountType'])) && $_SESSION['accountType'] == 'depositAccount' ? 'selected' : '' ?>>Deposit Account</option>
<option value="loanAccount" <?php echo (isset($_SESSION['accountType'])) && $_SESSION['accountType'] == 'loanAccount' ? 'selected' : '' ?>>Loan Account</option>
</select>
</p>
<p>
<label for="account-dropdown">Select an account</label>
<select name="account-dropdown" id="account-dropdown">
<?php require("../lodgementsListbox.php") // renders the customer accounts
?>
</select>
</p>
<p>
<label for="customerID">Customer ID</label>
<input type="text" name="customerID" id="customerID">
</p>
<p>
<label for="accountNumber">Account Number</label>
<input type="text" name="accountNumber" id="accountNumber">
</p>
<p>
<label for="accountID">Account ID</label>
```

```

<input type="text" name="accountID" id="accountID">
</p>
<p>
<label for="balance">Balance</label>
<input type="text" name="balance" id="balance">
</p>
<p>
<label for="firstName">First Name</label>
<input type="text" id="firstName" name="firstName" required>
</p>
<p>
<label for="lastName">Last Name</label>
<input type="text" id="lastName" name="lastName" required>
</p>
<p>
<label for="address">Address</label>
<input type="text" name="address" id="address" required>
</p>
<p>
<label for="dateOfBirth">Date of Birth</label>
<input type="date" name="dateOfBirth" id="dateOfBirth" required>
</p>
<p>
<label for="phoneNumber">Telephone Number</label>
<input type="text" name="phoneNumber" id="phoneNumber" required>
</p>
<p>
<label for="email">Email Address</label>
<input type="email" name="email" id="email" required>
</p>
<p>
<label for="lodgementAmount">Lodgement Amount</label>
<input type="text" name="lodgementAmount" id="lodgementAmount">
</p>
<div class="form-buttons">
<input type="submit" value="Confirm" id="submitBtn" name="submitBtn">
</div>
</form>
<div class="result-container"> <!--Container that displays the result of the SQL query-->
<?php
include "../db.inc.php"; // connects to the database
$accountType = $_POST['accountType'] ?? null; // assigns accountType the posted value,
otherwise assigns null
$newBalance = 0; // declare variable newBalance with value of 0

// check if balance, lodgementAmount and accountID have been posted
if (isset($_POST['balance'], $_POST['lodgementAmount'], $_POST['accountID'])) {
// creates SQL query statement for the corresponding selected account type
switch ($accountType) {
case "currentAccount":
// new balance is calculated by adding the previous balance and lodgement amount
$newBalance = $_POST['balance'] + $_POST['lodgementAmount'];
$sql = "UPDATE `Current Account` SET balance='$newBalance' WHERE
accountID='$_POST[accountID]'";
break;
case "depositAccount":
// new balance is calculate by adding the previous balance and lodgement amount
$newBalance = $_POST['balance'] + $_POST['lodgementAmount'];
$sql = "UPDATE `Deposit Account` SET balance='$newBalance' WHERE
accountID='$_POST[accountID]'";
break;
case "loanAccount":

```

```

// new balance is calculate by subtracting the lodgement amount from the previous balance
$newBalance = $_POST['balance'] - $_POST['lodgementAmount'];
$sql = "UPDATE `Loan Account` SET balance='$newBalance' WHERE
accountID='$_POST[accountID]'";
break;
}
}
$result = mysqli_query($con, $sql); // executes the SQL query
if (!$result) { // throws an error if SQL query is unsuccessful
die("Error querying the database" . mysqli_error($con));
}
// if at least one row is updated in the table
if (mysqli_affected_rows($con) != 0) {
echo "<h2>Lodgement Successful! New Balance: $newBalance</h2>";
} else { // if no rows are updated in the table
echo "<h2>Lodgement Unsuccessful</h2>";
}
$todayDate = date("Y-m-d"); // creates a today's date object that matches the database table
format

// if SQL query is successful and at least one row was updated in the table
if ($result && mysqli_affected_rows($con) != 0) {
// Inserts an account history entry for the corresponding account type
switch ($accountType) {
case "currentAccount":
$sql = "INSERT INTO `Current Account History` (accountID, date, transactionType, amount,
balance) VALUES ('$_POST[accountID]', '$todayDate', 'Lodgement', '$_POST[lodgementAmount]',
'$newBalance')";
break;
case "depositAccount":
$sql = "INSERT INTO `Deposit Account History` (accountID, date, transactionType,
transactionAmount, balance) VALUES ('$_POST[accountID]', '$todayDate', 'Lodgement',
'$_POST[lodgementAmount]', '$newBalance')";
break;
case "loanAccount":
$sql = "INSERT INTO `Loan Account History` (accountID, transactionDate, transactionType,
repaymentAmount, balance) VALUES ('$_POST[accountID]', '$todayDate', 'Lodgement',
'$_POST[lodgementAmount]', '$newBalance')";
break;
}
}
$result = mysqli_query($con, $sql); // executes the SQL query
if (!$result) { // throws an error if the SQL query is unsuccessful
die("Error querying the database" . mysqli_error($con));
} ?>
<!--Close window button wrapped in a form element that returns to the previous screen-->
<form action="./lodgements.html.php" method="post" class="close-window">
<button type="submit" id="return-button">
<div>
<svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24">
<title>window-close</title>
<path
d="M13.46,12L19,17.54V19H17.54L12,13.46L6.46,19H5V17.54L10.54,12L5,6.46V5H6.46L12,10.54L17.5
4,5H19V6.46L13.46,12Z" />
</svg>
</div>
</button>
</form>
</div>
</main>
</body>
</html>

```

# CSS

## customer.css:

```
/*
Name: Kyle Purcell
Student Number: C00301808
Date: 24/03/2025
Description: A CSS file that styles the Add Customer, Delete Customer, Amend/View a Customer
and Lodgements screens
*/

* {
margin: 0; /*Removes the default margin for all elements*/
padding: 0; /*Removes the default padding for all elements*/
box-sizing: border-box; /*Ensures that padding and border width/length are not included in
element width/height*/
}

#add-customer-form,
#delete-customer-form,
#amend-view-customer-form,
#lodgements-form {
background-color: #faf4ff;
border: 2px solid purple;
padding: 2rem;
display: grid;
gap: 1.6rem;
margin: 2rem 0;
border-radius: 20px;
min-width: 80%;
}

#add-customer-form {
gap: 0.4rem!important; /*Sets the CSS specificity to the highest so that the style rules
will always be applied*/
}

label {
font-family: lato;
font-size: 1.4rem;
flex: 1;
}

form p:not(.address-section, .amend-view-button-container, .form-buttons) {
display: flex; /*Flex container that can expand and grow*/
align-items: center; /*Centers elements within the flex container along the y-axis*/
justify-content: space-between; /*Sets elements within the flex container to have an even
space between them along the x-axis*/
}

input:not(#submit, #reset, #submitBtn),
#select-customer,
#confirm-button,
#account-dropdown,
#account-type {
font-size: 1rem;
padding: 0.6rem 1rem;
border: 2px solid purple;
border-radius: 6px; /*Rounds the border to make it appear more curved*/
background-color: #fffcff;
min-width: 50%;
```

```

}

#select-customer, #account-dropdown, #account-type {
padding-right: 1rem;
min-width: 50%;
}

.address-heading {
font-size: 1.4rem;
padding: 0.5rem 0rem;
}

.form-buttons {
display: flex;
align-items: center;
justify-content: space-evenly; /*Evenly distributes the space between each element and the
edge of the flex container along the x-axis*/
margin-top: 1rem;
}

.form-buttons>input {
font-size: 1.2rem;
background-color: #fffcff;
border: 2px solid #56007a;
border-radius: 8px;
padding: 0.6rem 3rem;
box-shadow: 0px 1px 0px #56007a; /*Adds a shadow underneath the element*/
}

.form-buttons>input:hover,
#amend-view-button:hover,
#return-button:hover,
.close-window button:hover {
cursor: pointer; /*Styles the cursor to be a pointer for clicking on elements*/
opacity: 0.8; /*Reduces the tone and visibility of the element*/
background-color: #774491!important;
color: white;
border: 2px solid #56007a!important;
}

.form-buttons>input:active,
#amend-view-button:active,
#return-button:active,
.close-window button:active {
transform: translateY(5px); /*Places the element across its y-axis by 5px when it is
active*/
box-shadow: 0px 0px 0px; /*Removes the box shadow when element is active*/
}

main {
display: flex;
flex-direction: column; /*Sets direction from default row (horizontal) to column
(vertical)*/
align-items: center; /*Centers flex items along the flex container's y-axis*/
justify-content: center; /*Centers flex items along the flex container's x-axis*/
}

.customer-info {
display: flex;
flex-direction: column;
gap: 0.4rem;
}

```

```

.amend-view-button-container {
display: flex;
align-items: center;
justify-content: center;
}

#amend-view-button {
margin-top: 1rem;
}

.result-container {
position: absolute; /*Positions the element relative to the nearest parent element and
removes it from the normal document flow*/
display: flex;
flex-direction: column;
align-items: center;
justify-content: center;
gap: 3rem; /*Sets a gap between flex items of 3rem*/
background-color: #fffcff;
border: 2px solid purple;
border-radius: 16px;
padding: 4rem 0rem;
}

.result-container form {
display: flex;
align-items: center;
justify-content: center;
}

.result-container > h2, .result-container > form > input {
font-size: 1.4rem!important;
padding: 3rem 6rem;
color: #2c004d;
}

.close-window {
position: absolute;
top: 6px;
right: 6px;
display: flex;
align-items: center;
justify-content: center;
}

.close-window button:hover {
cursor: pointer;
}

.close-window svg {
width: 40px;
height: 40px;
fill: white; /*Fill property is used to style the background colour of an SVG element*/
}

.close-window button {
border: 2px solid black;
border-radius: 8px;
background-color: #2c004d;
}

.disabled {
opacity: 0.4;
pointer-events: none; /*Disables all cursor activity over an element, disabling clicking on
the element*/
}

```

# Individual work (Oliwier Jakubiec)

## Add Screen

Bank

Lodgements

Withdrawals

Customer File Maintenance

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custID

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Kildare

Eircode

R340000

Date Of Birth

07/04/2004

Phone number

phone

Account Number

Enter the loan amount

loanAmount

Enter the term of the loan

term

Monthly repayments

repayments

Calculate Repayments

Open Loan Account



## index.php :

```
<!--
Name: Oliwier Jakubiec
Date: Feb 2025
ID : C00296807
Title: main page for open loan account
-->
<?php session_start(); // start the session
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <!-- meta data -->
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Open Loan Account</title>
    <!-- important css stuff for the sidemenu -->
    <?php require('.././head.html') ?>
    <!-- css file -->
    <link rel="stylesheet" href="../oliwierStyles.css">
    <!-- javascript file -->
    <script src="script.js"></script>
</head>

<body>
    <!-- include sidemenu -->
    <?php require($_SERVER["DOCUMENT_ROOT"] . '/sideMenu.html'); ?>

    <main>

    <div class="theForm">
    <!-- create form with action displayview and method post
         this empty form is used for confirming the customer, the fields for it
         are later in the form for clarity -->
    <form id="checkCustomer" action="displayView.php" method="post"></form>

    <!-- main form with action insert.php-->
    <form id="mainForm" action="insert.php" method="post" onsubmit="return confirmCheck()">

        <h1>Open Loan Account</h1>

        <!-- box for customer name -->
        <!-- the text changes depending on the value of the session var 'name' -->
        <div class="inputbox">
            <label for="custName">Customer name </label>
            <select name='listbox' id ='listbox' onchange ="return populate()"
            value="<?php if (ISSET($_SESSION['name'])) ) echo $_SESSION['name'];?>"
                <?php include "listbox.php" ?>
            </select>
        </div>

        <!-- input for customer ID -->
        <!-- the text changes depending on the value of the session var 'customer ID' -->
        <div class="inputbox">
            <label for="custID">Customer Number </label>
            <input type="number" name="custID" id="custID" placeholder="custID"
autocomplete=off required form="checkCustomer" min="0"
            title="Enter a customer number"
            value="<?php if (ISSET($_SESSION['customerID'])) ) echo
$_SESSION['customerID'];?>" />
        </div>
    </form>
    </main>
</body>
</html>
```

```

<!-- button to submit customer ID -->
<div class="button">
    <!-- submit button -->
    <input type="submit" value="Confirm customer" form="checkCustomer"/>
</div>

<!-- box for address -->
<!-- the text changes depending on the value of the session var 'address' -->
<div class="inputbox">
    <label for="address">Address</label>
    <input type="text" name="address" id="address" placeholder="address" disabled
    value="<?php if (ISSET($_SESSION['address'])) echo $_SESSION['address'];?>"/>
</div>

<!-- box for Last name -->
<!-- the text changes depending on the value of the session var 'eircode' -->
<div class="inputbox">
    <label for="eircode">Eircode</label>
    <input type="text" name="eircode" id="eircode" placeholder="eircode" disabled
    value="<?php if (ISSET($_SESSION['eircode'])) echo $_SESSION['eircode'];?>"/>
/>

    </div>

<!-- box for date of birth -->
<!-- the text changes depending on the value of the session var 'dob' -->
<div class="inputbox">
    <label for="dob">Date Of Birth</label>
    <input type="date" name="dob" id="dob" placeholder="Date of Birth" disabled
    value="<?php if (ISSET($_SESSION['dob'])) echo $_SESSION['dob'];?>"/>
</div>

<!-- box for customer phone no. -->
<!-- the text changes depending on the value of the session var 'phone' -->
<div class="inputbox">
    <label for="phone">Phone number</label>
    <input type="text" name="phone" id="phone" placeholder="phone" disabled
    value="<?php if (ISSET($_SESSION['phone'])) echo $_SESSION['phone'];?>"/>
</div>

<!-- box for account number that is generated -->
<!-- the text changes depending on the value of the session var 'dob' -->
<div class="inputbox">
    <label for="accountNumber">Account Number</label>
    <input type="text" name="accountNumber" id="accountNumber" disabled
    value="<?php if (ISSET($_SESSION['loanaccountNumber'])) echo
$_SESSION['loanaccountNumber'];?>"/>
</div>

<!-- box for loan amount. -->
<!-- the text changes depending on the value of the session var 'amount' -->
<div class="inputbox">
    <label for="loanAmount">Enter the loan amount </label>
    <input type="number" name="loanAmount" id="loanAmount" placeholder="loanAmount"
autocomplete=off
    required form="calcpay" step="0.01" min="0" onclick="clearRepayments()"
    title = "Enter the loan amount as a positive number"
    value="<?php if (ISSET($_SESSION['amount'])) echo $_SESSION['amount'];?>"/>
</div>

<!-- box for loan term. -->
<!-- the text changes depending on the value of the session var 'term' -->

```

```

<div class="inputbox">
  <label for="term">Enter the term of the loan</label>
  <input type="number" name="term" id="term" placeholder="term" autocomplete=off
required form="calcpay" min="0"
  onclick="clearRepayments()" title="Enter the term of the loan in months"
  value="<?php if (ISSET($_SESSION['term'])) ) echo $_SESSION['term'];?>"/>
</div>

<!-- box for calculated monthly repayments -->
<!-- the text changes depending on the value of the session var 'repayamount' -->
<div class="inputbox">
  <label for="repayments">Monthly repayments</label>
  <input type="text" name="repayments" id="repayments" onblur=""
placeholder="repayments" disabled
  title="Press 'calculate repayments' to fill this field"
  value="<?php if (ISSET($_SESSION['repayAmount'])) ) echo
$_SESSION['repayAmount'];?>"
  />
</div>

<!-- div to align both buttons -->
<div class="button" style="display: flex; justify-content: space-between;">
  <!-- calculate repayments button -->
  <div class="button">
    <input type="submit" value="Calculate Repayments" form="calcpay" />
  </div>
  <!-- submit button -->
  <div class="button">
    <input type="submit" value="Open Loan Account" />
  </div>
</div>

</form>

<form id="calcpay" action="calcRate.php" method="post"></form>

</div>
<!-- php section -->
<?php
  // if the name is unset and the id is, after the query was made print the error
message
  if (!ISSET($_SESSION['name']) and ISSET($_SESSION['customerID'])) {

    echo '<p class="errorStyle">
    No record found for a customer with id : ' . $_SESSION['customerID'] . ' <br>
Please try again!
    </p>';
    // unset the customerID to clear the variable
    unset ($_SESSION['customerID']);
  }
?>
</main>
</body>
</html>

```

## insert.php:

```
<!--
Name: Oliwier Jakubiec
Date: 30/1/2025
ID : C00296807
Title: insert page php
-->

<?php
session_start();          // start session
?>
<!DOCTYPE html>
<head>
    <!-- meta data -->
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Open Loan Account</title>
    <!-- important css stuff for the sidemenu -->
    <?php require('.././head.html') ?>
    <!-- css file -->
    <link rel="stylesheet" href="../oliwierStyles.css">
    <!-- javascript file -->
    <script src="script.js"></script>
</head>

<?php
// include sidemenu
require($_SERVER["DOCUMENT_ROOT"] . '/sideMenu.html');
?>
<main>
    <?php
    include '.././db.inc.php';          // include db connection file
    date_default_timezone_set("UTC");    // set default timezone
    echo "The details sent down are: <br>";

    // confirm the data being sent to the db
    echo "Customer ID is : " . $_SESSION['customerID'] . "<br>";
    echo "Account Number is : " . $_SESSION['loanaccountNumber'] . "<br>";
    echo "Term is : " . $_SESSION['term'] . "<br>";
    echo "Loan Ammount is : " . $_SESSION['amount'] . "<br>";
    echo "Repayments is : " . $_POST['repayments'] . "<br>";

    $date=date("Y-m-d");                // create the date object
    // prepare the sql statement for inserting the values
    $sql = "INSERT INTO `Loan Account` (
        accountNumber,
        balance,
        loanAmount,
        loanStartDate,
        loanTerm,
        loanMonthlyRepayments)
    VALUES ('$_SESSION[loanaccountNumber]', '$_SESSION[amount]',
'$_SESSION[amount]', '$date', '$_SESSION[term]', '$_POST[repayments]')";

    // check if any errors in the sql have occurred
    if (!mysqli_query($con,$sql)) {
        die ("An error in the sql query: " . mysqli_error($con));
    }

    // create new sql statement to get the new accountID
```

```

    $sql = "SELECT accountID FROM `Loan Account` WHERE accountNumber =
'$_SESSION[loanaccountNumber]'";

    // check if any errors in the sql have occurred
    if (!$result = mysqli_query($con,$sql)) {
        die ('Error in querying the database' . mysqli_error($con));
    }
    // get the accountID
    while ($row = mysqli_fetch_array($result)) {
        $accountID = $row['accountID'];
    }

    // prepare the sql statement for inserting the values into the linking table
    $sql = "INSERT INTO `Customer/LoanAccount` (
        customerNo,
        accountID)"
        . "VALUES ('$_SESSION[customerID]', '$accountID')";

    // check if any errors in the sql have occurred
    if (!$result = mysqli_query($con,$sql)) {
        die ('Error in querying the database' . mysqli_error($con));
    }

    //close connection
    mysqli_close($con);

    session_destroy();        // destroy the session
    unset($_SESSION);        // unset the session
    ?>

    <!-- form to send you back to the submit page -->
    <form action = "index.php" method = "POST" >
        <br>
        <input type="submit" value = "Return to Insert Page"/>
    </form>
</main>

```

## listbox.php:

```
<!--
Author   : Oliwier Jakubiec
Date     : Mar 2025
ID       : C00296807
Purpose  : dropdown list of customers
-->

<?php
// include db connection and set timezone
include '../db.inc.php';
date_default_timezone_set("UTC");

// create sql query
$sql = "SELECT customerNo, firstName, surName, address, eircode, dateOfBirth, telephoneNo
FROM Customer WHERE deletedFlag = 0";

// check if query is successful
if (!$result = mysqli_query($con, $sql)) {
    die("Error in querying the database " . mysqli_error($con));
}

// if customerId is not null, get the value, otherwise set it to empty string
// do the same for account number
$selectedCust = $_SESSION['customerID'] ?? '';

// create dropdown
echo "<option value='placeholder'>Select a customer</option>";

// loop through the result and create an option for each customer
while ($row = mysqli_fetch_array($result)) {
    // get the values from the row
    $id = $row["customerNo"];
    $fname = $row["firstName"];
    $lname = $row["surName"];
    $name = $fname . " " . $lname;
    $addr = $row["address"];
    $eircode = $row["eircode"];
    $dob = $row["dateOfBirth"];
    $phone = $row["telephoneNo"];
    $allText = "$id#$addr#$eircode#$dob#$phone";

    // if the selected customer from the session is the same as the current
    // customer, set the selected attribute to selected, else set it to empty string
    $selected = ($id == $selectedCust) ? "selected" : "";
    echo "<option value='$allText' $selected>$name</option>";
}
// close connection
mysqli_close($con);
```

## displayView.php:

```
<!--
Name: Oliwier Jakubiec
Date: Feb 2025
ID : C00296807
Title: display view php
-->
<?php
    // start session
    session_start();
    include '../db.inc.php';      // include DB access file

    // prepare sql statement
    $sql = "SELECT customerNo, firstName, surName, address, eircode, dateOfBirth,
telephoneNo
        FROM Customer WHERE deletedFlag = '0' AND customerNo = ". $_POST['custID'];

    // check if any errors occurred in the query
    if (!$result = mysqli_query($con,$sql)) {
        die ('Error in querying the database' . mysqli_error($con));
    }

    // get the number of rows
    $rowcount = mysqli_affected_rows($con);

    // set session 'customerid' as customerId from the Post
    $_SESSION['customerID']=$_POST['custID'];

    // if theres one rowcount then a record has been found
    if ($rowcount == 1) {
        // fetch associative array from the query
        $row = mysqli_fetch_array($result);

        // set all session variables as the fetched values from the table
        $_SESSION['customerID']=$row['customerNo'];
        $_SESSION['name']=$row['firstName'];
        $_SESSION['address']=$row['address'];
        $_SESSION['eircode']=$row['eircode'];
        $_SESSION['dob']=$row['dateOfBirth'];
        $_SESSION['phone']=$row['telephoneNo'];
    }
    else if ($rowcount == 0) {
        // if no record found unset all session variables
        unset ($_SESSION['name']);
        unset ($_SESSION['dob']);
        unset ($_SESSION['address']);
        unset ($_SESSION['eircode']);
        unset ($_SESSION['dob']);
        unset ($_SESSION['phone']);
    }

    // set variables to true
    $run = true;
    $keepRunning = true;

    // loop until we get a unique account number
    while ($run) {
        // generate a random number between 10000000 and 99999999
        $random = rand(10000000,99999999);
```

```

// prepare sql query to get all account numbers
$sql = "SELECT accountNumber FROM `Deposit Account` UNION
        SELECT accountNumber FROM `Loan Account` UNION
        SELECT accountNumber FROM `Current Account`";

// check if any errors occurred in the query
if (!$result = mysqli_query($con,$sql)) {
    die ('Error in querying the database' . mysqli_error($con));
}

// loop through the result and check if the random number is unique
while ($row = mysqli_fetch_array($result)) {

    // if the random number is the same as the account number
    if ($random == $row['accountNumber']) {
        // keep generating random numbers
        $keepRunning = true;
    }
    else {
        // stop generating random numbers
        $keepRunning = false;
    }
}

// if we have a unique account number
if ($keepRunning == false) {
    // set session variable to the random number
    $run = false;
    $_SESSION['loanaccountNumber'] = $random;
}

}
// close connection
mysqli_close($con);
//Go back to the calling form with the values that we need to display in session
variables
header('Location: index.php' );
?>

```



## calcRate:

```
<!--
Name: Oliwier Jakubiec
Date: Feb 2025
ID : C00296807
Title: calculate the loan repayment amount php file
-->
<?php
    include 'db.inc.php';          // include DB access file
    session_start();               // start session

    // prepare sql statement
    $sql = "SELECT rate FROM `Rate Table` WHERE rateType = 'Interest'";

    // check if any errors occurred in the query
    if (!$result = mysqli_query($con, $sql)) {
        die('Error in querying the database' . mysqli_error($con));
    }

    // get the number of rows
    $rowcount = mysqli_affected_rows($con);

    $row = mysqli_fetch_array($result);
    // get the rate from the row of the rate table
    $rate = $row['rate'];

    // get the term and loan amount from the post
    $term = $_POST['term'];
    $loanAmount = $_POST['loanAmount'];

    // calculate the repay amount
    $repayAmount = $loanAmount / $term;
    $repayAmount *= 1 + $rate;

    // set the session variables
    $_SESSION['amount'] = $loanAmount;
    $_SESSION['term'] = $term;
    $_SESSION['repayAmount'] = $repayAmount;

    //close connection
    mysqli_close($con);

    //Go back to the calling form with the values that we need to display in session
    variables
    header('Location: index.php');

?>
```

## script.js:

```
// Name: Oliwier Jakubiec
// Date: Feb 2025
// ID : C00296807
// Title: js file for the open loan account page

// function to display a customer details based on the value in listbox
function populate() {
    // get the listbox element
    var sel = document.getElementById("listbox");
    // get the selected item in the dropdown
    var result = sel.options[sel.selectedIndex].value;
    if (result == "placeholder") {
        // if the placeholder is selected clear the fields
        document.getElementById("custID").value = "";
        document.getElementById("address").value = "";
        document.getElementById("eircode").value = "";
        document.getElementById("dob").value = "";
        document.getElementById("phone").value = "";
        document.getElementById("accountNumber").value = "";
        document.getElementById("loanAmount").disabled = true;
        document.getElementById("loanAmount").value = "";
        document.getElementById("term").disabled = true;
        document.getElementById("term").value = "";
        document.getElementById("repayments").value = "";
        return;
    }
    // make an array of the customer details by splitting the result by the delimiter ','
    var personDetails = result.split('#');
    // get elements and display the results in the array
    document.getElementById("custID").value = personDetails[0];
    document.getElementById("address").value = personDetails[1];
    document.getElementById("eircode").value = personDetails[2];
    document.getElementById("dob").value = personDetails[3];
    document.getElementById("phone").value = personDetails[4];

    document.getElementById("loanAmount").disabled = false;
    document.getElementById("term").disabled = false;
}

// function to check if the user wants to really submit the updated form
function confirmCheck() {
    // check if the form is valid first
    if (!checkValid()) {return false;}

    // declare variable
    var response;
    // confirm returns true if the Ok option is selected
    response = confirm('Are you sure you want to save these changes?');
    if (response) { // check for "ok"
        // enable the textboxes as disabled boxes cannot send their data
        document.getElementById("repayments").disabled = false;
        return true; // returns true
    } else { // the user cancelled the confirmation
        return false;
    }
}

// check if the form is valid
function checkValid() {
    // get the elements to check
```

```

var loanAmount = document.getElementById("loanAmount");
var term = document.getElementById("term");
var payments = document.getElementById("repayments");
var accountNo = document.getElementById("accountNumber");
// get the listbox element
var sel = document.getElementById("listbox");
// get the selected item in the dropdown
var result = sel.options[sel.selectedIndex].value;

// the dropdown is set to placeholder
if (result == "placeholder") {
    alert("Please select a customer");
    return false;
}
// check if the loan amount is a positive number
if (loanAmount.value == "" || loanAmount.value < 0) {
    alert("Please enter the loan amount as a positive number");
    return false;
}
// check if the term is a positive number
if (term.value == "" || loanAmount.value < 0) {
    alert("Please enter the term length as a positive number");
    return false;
}
// check if the repayments are calculated
if (payments.value == "") {
    alert("Please calculate the repayment amounts");
    return false;
}
// check if the account number is generated
if (accountNo.value == "") {
    alert("Please confirm the customer to generate the account number");
    return false;
}
// return true if all checks pass
return true;
}

// function to clear repayments when the user changes the loan amount or term
function clearRepayments() {
    // get the repayments element
    var payments = document.getElementById("repayments").value;
    // clear the field
    payments = "";
    document.getElementById("repayments").disabled = false;
    document.getElementById("repayments").value = "";
    document.getElementById("repayments").disabled = true;
}

```

# Delete Screen

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Customer name

Select a customer

Customer Number

custID

Account Number

10000000

Confirm customer

Address

address

Eircode

eircode

Date Of Birth

dd/mm/yyyy

Phone number

phone

Loan Balance

balance

Close Loan Account

## index.php

```
<!--
Name: Oliwier Jakubiec
Date: Mar 2025
ID : C00296807
Title: main page for close loan account
-->
<?php session_start(); // start the session
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <!-- meta data -->
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Close Loan Account</title>
    <!-- important css stuff for the sidemenu -->
    <?php require('../././head.html') ?>
    <!-- css file -->
    <link rel="stylesheet" href="../oliwierStyles.css">
    <!-- javascript file -->
    <script src="script.js"></script>
</head>

<body>
    <!-- include sidemenu -->
    <?php require($_SERVER["DOCUMENT_ROOT"] . '/sideMenu.html'); ?>

    <main>
    <!-- create form with action displayview and method post
         this empty form is used for confirming the customer, the fields for it
         are later in the form for clarity -->
    <form id="checkCustomer" action="displayView.php" method="post"></form>

    <!-- main section -->
    <div class="theForm">
        <h1>Close Loan Account</h1>
        <form id="mainForm" action="delete.php" method="post" onsubmit="return confirmCheck()">
            <!-- box for customer name -->
            <!-- the text changes depending on the value of the session var 'name' -->
            <div class="inputbox">
                <label for="custName">Customer name </label>
                <select name='listbox' id='listbox' onchange ="return populate()" value="<?php
if (ISSET($_SESSION['close_loaname'])) echo $_SESSION['close_loaname'];?>">
                    <?php include "listbox.php" ?>
                </select>
            </div>

            <!-- input for customer ID -->
            <!-- on input make sure to disable the submit to confirm which account is being
deleted -->
            <div class="inputbox">
                <label for="custID">Customer Number </label>
                <input type="number" name="custID" id="custID" placeholder="custID"
autocomplete=off form="checkCustomer"
                oninput="disableSubmit()" title="Enter a customer number" min="0"
                value="<?php if (ISSET($_SESSION['close_customerID'])) echo
$_SESSION['close_customerID'];?>" />
            </div>

            <!-- box for account number that is generated -->
```

```

        <!-- the text changes depending on the value of the session var 'closeAccountNumber'
-->
        <!-- on input make sure to disable the submit to confirm which account is being
deleted -->
        <div class="inputbox">
            <label for="closeAccountNumber">Account Number</label>
            <input type="text" name="closeAccountNumber" id="closeAccountNumber"
placeholder="10000000" form="checkCustomer" required oninput="disableSubmit()"
title="Enter the account number as an 8 digit long number" pattern="[\\d]{8}"
value="<?php if (ISSET($_SESSION['close_AccountNumber'])) ) echo
$_SESSION['close_AccountNumber']?>" />
        </div>

        <div class="button">
            <!-- submit button -->
            <input type="submit" value="Confirm customer" form="checkCustomer" />
        </div>
        <!-- box for address -->
        <!-- the text changes depending on the value of the session var 'address' -->
        <div class="inputbox">
            <label for="address">Address</label>
            <input type="text" name="address" id="address" placeholder="address" disabled
value="<?php if (ISSET($_SESSION['close_address'])) ) echo
$_SESSION['close_address']?>" />
        </div>

        <!-- box for Last name -->
        <!-- the text changes depending on the value of the session var 'eircode' -->
        <div class="inputbox">
            <label for="eircode">Eircode</label>
            <input type="text" name="eircode" id="eircode" placeholder="eircode" disabled
value="<?php if (ISSET($_SESSION['close_eircode'])) ) echo
$_SESSION['close_eircode']?>" />
        </div>

        <!-- box for date of birth -->
        <!-- the text changes depending on the value of the session var 'dob' -->
        <div class="inputbox">
            <label for="dob">Date Of Birth</label>
            <input type="date" name="dob" id="dob" placeholder="Date of Birth" disabled
value="<?php if (ISSET($_SESSION['close_dob'])) ) echo
$_SESSION['close_dob']?>" />
        </div>

        <!-- box for customer phone no. -->
        <!-- the text changes depending on the value of the session var 'phone' -->
        <div class="inputbox">
            <label for="phone">Phone number</label>
            <input type="text" name="phone" id="phone" placeholder="phone" disabled
value="<?php if (ISSET($_SESSION['close_phone'])) ) echo
$_SESSION['close_phone']?>" />
        </div>

        <!-- box for loan balance. -->
        <!-- the text changes depending on the value of the session var 'balance' -->
        <div class="inputbox">
            <label for="balance">Loan Balance </label>
            <input type="number" name="balance" id="balance" placeholder="balance"
autocomplete=off required form="calcpay"
form="mainForm" disabled
value="<?php if (ISSET($_SESSION['close_balance'])) ) echo
$_SESSION['close_balance']?>" />

```

```

</div>

<!-- submit button -->
<div class="button">
    <input type="submit" id="submit" value="Close Loan Account"
    <?php echo ISSET($_SESSION['close_accountConfirmed']) ? '' : 'disabled'
    // Ternary statement here to check if the button should be disabled onload based
on if
    // account has been confirmed already
    ?>/>
</div>

</form>
</div>
<!-- php section -->
<?php
    // if the name is unset and the id is, after the query was made print the error
message
    if (!ISSET($_SESSION['close_loaname']) and ISSET($_SESSION['close_AccountNumber'])) {
        echo '<p class="errorStyle">
        No record found for account number : ' . $_SESSION['close_AccountNumber'] . ' <br>
        Please try again!
        </p>';
        // unset the customerID to clear the variable
        unset ($_SESSION['close_AccountNumber']);
    }
    ?>
</main>
</body>
</html>

```

## listbox.php

```
<!--
Author   : Oliwier Jakubiec
Date     : Mar 2025
ID       : C00296807
Purpose  : dropdown list of customers
-->
<?php
// include db connection and set timezone
include '../db.inc.php';
date_default_timezone_set("UTC");

// create sql query
$sql = "SELECT Customer.customerNo, firstName, surName, address, eircode, dateOfBirth,
telephoneNo,
        `Loan Account`.`accountNumber`, `Loan Account`.accountID, `Loan Account`.balance
FROM (`Customer` INNER JOIN `Customer/LoanAccount`
        ON Customer.customerNo = `Customer/LoanAccount`.`customerNo`) INNER JOIN `Loan
Account` ON `Loan Account`.`accountID` =
        `Customer/LoanAccount`.`accountID` WHERE Customer.deletedFlag = 0 AND `Loan
Account`.`deletedFlag` = 0";

// check if query is successful
if (!$result = mysqli_query($con, $sql)) {
    die("Error in querying the database " . mysqli_error($con));
}

// if customerId is not null, get the value, otherwise set it to empty string
// do the same for account number
$selectedCust = $_SESSION['close_customerID'] ?? '';
$selectedAcc = $_SESSION['close_AccountNumber'] ?? '';

// create dropdown
echo "<option value='placeholder'>Select a customer</option>";

// loop through the result and create an option for each customer
while ($row = mysqli_fetch_array($result)) {
    // get the values from the row
    $id = $row["customerNo"];
    $fname = $row["firstName"];
    $lname = $row["surName"];
    $addr = $row["address"];
    $eircode = $row["eircode"];
    $dob = $row["dateOfBirth"];
    $phone = $row["telephoneNo"];
    $accountNo = $row["accountNumber"];
    $balance = $row["balance"];
    $name = $fname . " " . $lname . " : " . $accountNo;
    // create a string with all the values
    $allText = "$id#$addr#$eircode#$dob#$phone#$accountNo#$balance";

    // if the selected customer from the session is the same as the current
    // customer, set the selected attribute to selected, else set it to empty string
    $selected = (($id == $selectedCust) && ($accountNo == $selectedAcc)) ? "selected" : "";
    echo "<option value='$allText' $selected>$name</option>";
}
// close connection
mysqli_close($con);
```



## displayView:

```
<!--
Name: Oliwier Jakubiec
Date: 13/2/2025
ID : C00296807
Title: display view php-->
<?php
// start session
session_start();
include '../db.inc.php';      // include DB access file
// prepare sql statement
$sql = "SELECT Customer.customerNo, firstName, surName, address, eircode, dateOfBirth,
telephoneNo,
    `Loan Account`.`accountNumber`, `Loan Account`.accountID, `Loan Account`.balance
FROM (`Customer` INNER JOIN `Customer/LoanAccount`
    ON Customer.customerNo = `Customer/LoanAccount`.`customerNo`) INNER JOIN `Loan
Account` ON `Loan Account`.`accountID` =
    `Customer/LoanAccount`.`accountID` WHERE `Loan Account`.`accountNumber` = " .
$_POST['closeAccountNumber'] . " ";

// check if any errors occurred in the query
if (!$result = mysqli_query($con, $sql)) {
    die('Error in querying the database' . mysqli_error($con));
}
// get the number of rows
$rowcount = mysqli_affected_rows($con);
// set session 'personid' as personid from the Post
$_SESSION['close_AccountNumber'] = $_POST['closeAccountNumber'];

// if theres one rowcount then a record has been found
if ($rowcount == 1) {
    // fetch associative array from the query
    $row = mysqli_fetch_array($result);
    // set all session variables as the fetched values from the table
    $_SESSION['close_customerID'] = $row['customerNo'];
    $_SESSION['close_loaname'] = $row['firstName'];
    $_SESSION['close_address'] = $row['address'];
    $_SESSION['close_eircode'] = $row['eircode'];
    $_SESSION['close_dob'] = $row['dateOfBirth'];
    $_SESSION['close_phone'] = $row['telephoneNo'];
    $_SESSION['close_AccountNumber'] = $row['accountNumber'];
    $_SESSION['close_balance'] = $row['balance'];
    $_SESSION['close_accountConfirmed'] = true;
} else if ($rowcount == 0) { // if no record found unset all session variables
    unset($_SESSION['close_customerID']);
    unset($_SESSION['close_loaname']);
    unset($_SESSION['close_dob']);
    unset($_SESSION['close_address']);
    unset($_SESSION['close_eircode']);
    unset($_SESSION['close_dob']);
    unset($_SESSION['close_phone']);
    unset($_SESSION['close_balance']);
    unset($_SESSION['close_accountConfirmed']);
}
// close connection
mysqli_close($con);
//Go back to the calling form with the values that we need to display in session variables,
if a record was found
header('Location: index.php');
?>
```

## delete.php:

```
<!--
Name: Oliwier Jakubiec
Date: 30/1/2025
ID : C00296807
Title: close page php
-->
<?php
session_start();          // start session
?>
<!DOCTYPE html>
<head>
    <!-- meta data -->
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Close Loan Account</title>
    <!-- important css stuff for the sidemenu -->
    <?php require('../../head.html') ?>
    <!-- css file -->
    <link rel="stylesheet" href="../oliwierStyles.css">
    <!-- javascript file -->
    <script src="script.js"></script>
</head>

<?php
// include sidemenu
require($_SERVER["DOCUMENT_ROOT"] . '/sideMenu.html');
?>
<main>
    <?php
    include '../../db.inc.php';          // include db connection file
    date_default_timezone_set("UTC");    // set default timezone
    echo "The details sent down are: <br>";

    // confirm the data being sent to the db
    echo "Customer ID is :" . $_SESSION['close_customerID'] . "<br>";
    echo "Account Number is :" . $_SESSION['close_AccountNumber'] . "<br>";

    // prepare the sql statement for closing the account
    $sql = "UPDATE `Loan Account` SET deletedFlag=1 WHERE accountNumber =
'$_SESSION[close_AccountNumber]'";

    // check if any errors in the sql have occurred
    if (!mysqli_query($con, $sql)) {
        die("An error in the sql query: " . mysqli_error($con));
    }

    //close connection
    mysqli_close($con);

    session_destroy();          // destroy the session
    unset($_SESSION);          // unset the session
    ?>

    <!-- form to send you back to the submit page -->
    <form action="index.php" method="POST">
        <br>
        <input type="submit" value="Return to delete Page" />
    </form>
</main>
```

## **script.js:**

```
// Author   : Oliwier Jakubiec
// ID      : C00296807
// Date    : Mar 2025
// Purpose  : This file contains the javascript functions for the amend/view loan account
page

// function to display a customer and their account details based on the value in listbox
function populate() {
    // get the listbox element
    var sel = document.getElementById("listbox");
    // get the selected item in the dropdown
    var result = sel.options[sel.selectedIndex].value;
    document.getElementById("submit").disabled = true;

    if (result == "placeholder") {
        // if the placeholder is selected clear the fields
        document.getElementById("custID").value = "";
        document.getElementById("address").value = "";
        document.getElementById("eircode").value = "";
        document.getElementById("dob").value = "";
        document.getElementById("phone").value = "";
        document.getElementById("closeAccountNumber").value = "";
        document.getElementById("balance").value = "";
        return;
    }
    // make an array of the customer details by splitting the result by the delimiter '#'
    var personDetails = result.split('#');

    // get elements and display the results in the array

    document.getElementById("custID").value = personDetails[0];
    document.getElementById("address").value = personDetails[1];
    document.getElementById("eircode").value = personDetails[2];
    document.getElementById("dob").value = personDetails[3];
    document.getElementById("phone").value = personDetails[4];
    document.getElementById("closeAccountNumber").value = personDetails[5];
    document.getElementById("balance").value = personDetails[6];
}

// function to check if the user wants to really submit the updated form
function confirmCheck() {
    // check if the form is valid first
    if (!checkValid()) {return false;}

    // declare variable
    var response;
    // confirm returns true if the Ok option is selected
    response = confirm('Are you sure you want to delete this account?');
    if (response) { // check for "ok"
        return true; // returns true
    } else { // the user cancelled the confirmation
        return false;
    }
}

// function to check if the form is valid
function checkValid() {

    // get the balance value
```

```
var balance = document.getElementById("balance").value;
// check if the balance is not 0
if (balance != 0) {
    alert("Balance must be 0 to close the account");
    return false;
}
return true;
}

// function to disable the submit button
function disableSubmit() {
    var submit = document.getElementById("submit");
    submit.disabled = true;
}
```

## View / Amend Screen

Bank

Lodgements

Withdrawals

Customer File Maintenance

Account Maintenance

Deposit Account

Loan Account

Open an account

Close an account

Amend/View an account

Current Account

Management Menu

Quotes

Reports

Change password

### Amend/View Loan Account

Customer name

Select a customer

Customer Number

custID

Account Number

10000000

Confirm customer

Amend Details

Address

address

Eircode

eircode

Date Of Birth

dd/mm/yyyy

Phone number

phone

Loan Balance

balance

Loan amount

loanAmount

Term of loan

term

Monthly repayments

repayments

Update Account

## index.php:

```
<!--
Name: Oliwier Jakubiec
Date: March 2025
ID : C00296807
Title: main page for amend loan account -->
<?php session_start(); // start the session
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <!-- meta data -->
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Amend Loan Account</title>
    <!-- important css stuff for the sidemenu -->
    <?php require('../../head.html') ?>
    <!-- css file -->
    <link rel="stylesheet" href="../oliwierStyles.css">
    <!-- javascript file -->
    <script src="script.js"></script>
</head>
<body>
    <!-- include sidemenu -->
<?php require($_SERVER["DOCUMENT_ROOT"] . '/sideMenu.html'); ?>
<main>
    <!-- create form with action displayview and method post
         this empty form is used for confirming the customer, the fields for it
         are later in the form for clarity -->
    <form id="checkCustomer" action="displayView.php" method="post"></form>
    <!-- main section -->
    <div class="theForm">
        <h1>Amend/View Loan Account</h1>
        <form id="mainForm" action="amend.php" method="post" onsubmit="return confirmCheck()">
            <!-- dropdown with customer name -->
            <!-- the text changes depending on the value of the session var 'amend_name' -->
            <!-- these three next inputs are for the "checkCustomer" form -->
            <div class="inputbox">
                <label for="custName">Customer name </label>
                <select name='listbox' id='listbox' onchange ="return populate()"
                    value="<?php if (ISSET($_SESSION['amend_name'])) ) echo
$_SESSION['amend_name'];?>">
                    <?php include "listbox.php" ?>
                </select>
            </div>
            <!-- input for customer number -->
            <!-- on input make sure to unconfirm the account to prevent incorrect changes -->
            <div class="inputbox">
                <label for="custID">Customer Number </label>
                <input type="number" name="custID" id="custID" placeholder="custID"
autocomplete=off form="checkCustomer"
                oninput="unconfirmAccount()" title="Enter a customer number" min="0"
                value="<?php if (ISSET($_SESSION['amend_customerID'])) ) echo
$_SESSION['amend_customerID'];?>" />
            </div>

            <!-- box for account number that is generated -->
            <!-- the text changes depending on the value of the session var 'closeAccountNumber'
-->
            <!-- on input make sure to unconfirm the account to prevent incorrect changes -->
            <div class="inputbox">
```

```

        <label for="AccountNumber">Account Number</label>
        <input type="text" name="AccountNumber" id="AccountNumber"
        placeholder="10000000" form="checkCustomer" required
oninput="unconfirmAccount()"
        title="Enter the account number as an 8 digit long number" pattern="[\\d]{8}"
        value="<?php if (ISSET($_SESSION['amend_AccountNumber'])) ) echo
$_SESSION['amend_AccountNumber']?>"/>
    </div>

    <!-- buttons to confirm the customer and toggle view -->
    <div class="button" style="display: flex; justify-content: space-between;">
        <!-- submit button -->
        <input type="submit" value="Confirm customer" form="checkCustomer"/>
        <!-- toggle button -->
        <!-- set the form as null to make it not submit to anything -->
        <input type="button" id="toggle" value="Amend Details" onclick="toggleForm()"
form=""
        <?php echo ISSET($_SESSION['amend_accountConfirmed']) ? '' : 'disabled'
        // ternary statement here to check if the button should be disabled onload
based on if
        // account has been confirmed already
        ?>/>
    </div>
    <!-- box for address -->
    <!-- the text changes depending on the value of the session var 'address' -->
    <div class="inputbox">
        <label for="address">Address</label>
        <input type="text" name="address" id="address" placeholder="address" disabled
        value="<?php if (ISSET($_SESSION['amend_address'])) ) echo
$_SESSION['amend_address']?>"/>
    </div>
    <!-- box for eircode -->
    <!-- the text changes depending on the value of the session var 'eircode' -->
    <div class="inputbox">
        <label for="eircode">Eircode</label>
        <input type="text" name="eircode" id="eircode" placeholder="eircode" disabled
        value="<?php if (ISSET($_SESSION['amend_eircode'])) ) echo
$_SESSION['amend_eircode']?>"/>
    </div>
    <!-- box for date of birth -->
    <!-- the text changes depending on the value of the session var 'dob' -->
    <div class="inputbox">
        <label for="dob">Date Of Birth</label>
        <input type="date" name="dob" id="dob" placeholder="Date of Birth" disabled
        value="<?php if (ISSET($_SESSION['amend_dob'])) ) echo
$_SESSION['amend_dob']?>"/>
    </div>

    <!-- box for customer phone no. -->
    <!-- the text changes depending on the value of the session var 'phone' -->
    <div class="inputbox">
        <label for="phone">Phone number</label>
        <input type="text" name="phone" id="phone" placeholder="phone" disabled
        value="<?php if (ISSET($_SESSION['amend_phone'])) ) echo
$_SESSION['amend_phone']?>"/>
    </div>
    <!-- box for loan balance. -->
    <!-- the text changes depending on the value of the session var 'balance' -->
    <div class="inputbox">
        <label for="balance">Loan Balance </label>
        <input type="number" name="balance" id="balance" placeholder="balance"
autocomplete=off required

```

```

        form="mainForm" disabled
        value="<?php if (ISSET($_SESSION['amend_balance'])) ) echo
$_SESSION['amend_balance']?>"/>
    </div>

    <!-- box for loan amount. -->
    <!-- the text changes depending on the value of the session var 'loan amount' -->
    <div class="inputbox">
        <label for="loanAmount">Loan amount </label>
        <input type="number" name="loanAmount" id="loanAmount" placeholder="loanAmount"
autocomplete=off required
        form="mainForm" disabled min="0"
        title="Enter the loan amount"
        value="<?php if (ISSET($_SESSION['amend_amount'])) ) echo
$_SESSION['amend_amount']?>"/>
    </div>
    <!-- box for loan term. -->
    <!-- the text changes depending on the value of the session var 'term' -->
    <div class="inputbox">
        <label for="term">Term of loan</label>
        <input type="number" name="term" id="term" placeholder="term" autocomplete=off
required
        form="mainForm" onclick="clearRepayments()" disabled min="0" step="1"
        title="Enter the term of the loan in months"
        value="<?php if (ISSET($_SESSION['amend_term'])) ) echo
$_SESSION['amend_term']?>"/>
    </div>
    <!-- box for monthly repayments -->
    <!-- the text changes depending on the value of the session var 'repayments' -->
    <div class="inputbox">
        <label for="repayments">Monthly repayments</label>
        <input type="text" name="repayments" id="repayments" onblur=""
placeholder="repayments" disabled
        onclick="clearRepayments()"
        value="<?php if (ISSET($_SESSION['amend_repayments'])) ) echo
$_SESSION['amend_repayments']?>"
    </div>
    <!-- submit button -->
    <div class="button">
        <input type="submit" id="submit" value="Update Account" disabled />
    </div>
</form>
</div>
<!-- php section -->
<?php
// if the name is unset and the id is, after the query was made print the error
message
if (!ISSET($_SESSION['amend_name']) and ISSET($_SESSION['amend_AccountNumber'])) {

    echo '<p class="errorStyle">
No record found for account number : ' . $_SESSION['amend_AccountNumber'] . '
<br> Please try again!
</p>';
    // unset the customer id to clear the variable
    unset ($_SESSION['amend_customerID']);
}
?>
</main>
</body>
</html>

```



## listbox.php

```
<!--
Author   : Oliwier Jakubiec
Date     : Mar 2025
ID       : C00296807
Purpose  : dropdown list of customers
-->
<?php
// include db connection and set timezone
include '../db.inc.php';
date_default_timezone_set("UTC");

// create sql query
$sql = "SELECT Customer.customerNo, firstName, surName, address, eircode, dateOfBirth,
        telephoneNo, `Loan Account`.`accountNumber`, `Loan Account`.`accountID`, `Loan
Account`.`balance,
        `Loan Account`.`loanMonthlyRepayments`, `Loan Account`.`loanTerm`, `Loan
Account`.`loanAmount` FROM
        (`Customer` INNER JOIN `Customer/LoanAccount` ON Customer.customerNo =
`Customer/LoanAccount`.`customerNo`)
        INNER JOIN `Loan Account` ON `Loan Account`.`accountID` =
`Customer/LoanAccount`.`accountID`
        WHERE Customer.deletedFlag = 0 AND `Loan Account`.`deletedFlag` = 0;";

// check if query is successful
if (!$result = mysqli_query($con, $sql)) {
    die("Error in querying the database " . mysqli_error($con));
}
// if customerId is not null, get the value, otherwise set it to empty string
// do the same for account number
$selectedCust = $_SESSION['amend_customerID'] ?? '';
$selectedAcc = $_SESSION['amend_AccountNumber'] ?? '';
// create dropdown
echo "<option value='placeholder'>Select a customer</option>";

// loop through the result and create an option for each customer
while ($row = mysqli_fetch_array($result)) {
    // get the values from the row
    $id = $row["customerNo"];
    $fname = $row["firstName"];
    $lname = $row["surName"];
    $addr = $row["address"];
    $eircode = $row["eircode"];
    $dob = $row["dateOfBirth"];
    $phone = $row["telephoneNo"];
    $accountNo = $row["accountNumber"];
    $balance = $row["balance"];
    $repayments = $row["loanMonthlyRepayments"];
    $term = $row["loanTerm"];
    $loanAmount = $row["loanAmount"];
    $name = $fname . " " . $lname . " : " . $accountNo;
    // create a string with all the values
    $allText =
"$id#$addr#$eircode#$dob#$phone#$accountNo#$balance#$repayments#$term#$loanAmount";
    // if the selected customer from the session is the same as the current
    // customer, set the selected attribute to selected, else set it to empty string
    $selected = (($id == $selectedCust) && ($accountNo == $selectedAcc)) ? "selected" : "";
    echo "<option value='$allText' $selected>$name</option>";
}
// close connection
mysqli_close($con);
```

## displayView.php

```
<!--
Name: Oliwier Jakubiec
Date: 13/2/2025
ID : C00296807
Title: display view php
-->
<?php
// start session
session_start();
include '../db.inc.php';      // include DB access file

// prepare sql statement
$sql = "SELECT Customer.customerNo, firstName, surName, address, eircode, dateOfBirth,
        telephoneNo, `Loan Account`.`accountNumber`, `Loan Account`.`accountID`, `Loan
        Account`.`balance`, `Loan Account`.`loanMonthlyRepayments`, `Loan Account`.`loanTerm`,
        `Loan Account`.`loanAmount` FROM
        (`Customer` INNER JOIN `Customer/LoanAccount` ON Customer.customerNo =
        `Customer/LoanAccount`.`customerNo`)
        INNER JOIN `Loan Account` ON `Loan Account`.`accountID` =
        `Customer/LoanAccount`.`accountID`
        WHERE `Loan Account`.`accountNumber` = " . $_POST['AccountNumber'] . " ";

// check if any errors occurred in the query
if (!$result = mysqli_query($con, $sql)) {
    die('Error in querying the database' . mysqli_error($con));
}

// get the number of rows
$rowcount = mysqli_affected_rows($con);

// set session 'personid' as personid from the Post
$_SESSION['amend_AccountNumber'] = $_POST['AccountNumber'];

// if theres one rowcount then a record has been found
if ($rowcount == 1) {
    // fetch associative array from the query
    $row = mysqli_fetch_array($result);

    // set all session variables as the fetched values from the table
    $_SESSION['amend_customerID'] = $row['customerNo'];
    $_SESSION['amend_name'] = $row['firstName'];
    $_SESSION['amend_address'] = $row['address'];
    $_SESSION['amend_eircode'] = $row['eircode'];
    $_SESSION['amend_dob'] = $row['dateOfBirth'];
    $_SESSION['amend_phone'] = $row['telephoneNo'];
    $_SESSION['amend_AccountNumber'] = $row['accountNumber'];
    $_SESSION['amend_balance'] = $row['balance'];
    $_SESSION['amend_repayments'] = $row['loanMonthlyRepayments'];
    $_SESSION['amend_term'] = $row['loanTerm'];
    $_SESSION['amend_amount'] = $row['loanAmount'];
    $_SESSION['amend_accountConfirmed'] = true;
} else if ($rowcount == 0) { // if no record found unset all session variables
    unset($_SESSION['amend_customerID']);
    unset($_SESSION['amend_name']);
    unset($_SESSION['amend_dob']);
    unset($_SESSION['amend_address']);
    unset($_SESSION['amend_eircode']);
    unset($_SESSION['amend_dob']);
    unset($_SESSION['amend_phone']);
```

```
unset($_SESSION['amend_balance']);
unset($_SESSION['amend_accountConfirmed']);
unset($_SESSION['amend_repayments']);
unset($_SESSION['amend_term']);
unset($_SESSION['amend_amount']);
unset($_SESSION['amend_accountConfirmed']);
}
// close connection
mysqli_close($con);
//Go back to the calling form with the values that we need to display in session variables,
if a record was found
header('Location: index.php');

?>
```

## amend.php

```
<!--
Name: Oliwier Jakubiec
Date: 30/1/2025
ID : C00296807
Title: amend page php-->
<?php session_start(); ?>          // start session
<!DOCTYPE html>
<head>
    <!-- meta data -->
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Amend Loan Account</title>
    <!-- important css stuff for the sidemenu -->
    <?php require('../../head.html') ?>
    <!-- css file -->
    <link rel="stylesheet" href="../oliwierStyles.css">
    <!-- javascript file -->
    <script src="script.js"></script>
</head>
<?php
// include sidemenu
require($_SERVER["DOCUMENT_ROOT"] . '/sideMenu.html');
?>
<main>
    <?php
    include '../../db.inc.php';          // include db connection file
    date_default_timezone_set("UTC");    // set default timezone
    echo "The details sent down are: <br>";

    // confirm the data being sent to the db
    echo "Customer ID is :" . $_SESSION['amend_customerID'] . "<br>";
    echo "Account Number is :" . $_SESSION['amend_AccountNumber'] . "<br>";
    echo "Term is :" . $_POST['term'] . "<br>";
    echo "Loan Ammount is :" . $_POST['loanAmount'] . "<br>";
    echo "Repayments is :" . $_SESSION['amend_repayments'] . "<br>";

    // prepare the sql statement for updating the values
    $sql = "UPDATE `Loan Account` SET loanTerm='$_POST[term]' ,
loanAmount='$_POST[loanAmount]' WHERE accountNumber = '$_SESSION[amend_AccountNumber]'";

    // check if any errors in the sql have ocured
    if (!mysqli_query($con, $sql)) {
        die("An error in the sql query: " . mysqli_error($con));
    }

    //close connection
    mysqli_close($con);

    session_destroy();          // destroy the session
    unset($_SESSION);          // unset the session
    ?>

    <!-- form to send you back to the submit page -->
    <form action="index.php" method="POST">
        <br>
        <input type="submit" value="Return to amend Page" />
    </form>
</main>
```

## **script.js**

```
// Author   : Oliwier Jakubiec
// ID      : C00296807
// Date    : Mar 2025
// Purpose : This file contains the javascript functions for the amend/view loan account
page

// function to display a customer and their account details based on the value in listbox
function populate() {
    // get the listbox element
    var sel = document.getElementById("listbox");
    // get the selected item in the dropdown
    var result = sel.options[sel.selectedIndex].value;
    document.getElementById("submit").disabled = true;
    document.getElementById("toggle").disabled = true;

    if (result == "placeholder") {
        // if the placeholder is selected clear the fields
        document.getElementById("custID").value = "";
        document.getElementById("address").value = "";
        document.getElementById("eircode").value = "";
        document.getElementById("dob").value = "";
        document.getElementById("phone").value = "";
        document.getElementById("AccountNumber").value = "";
        document.getElementById("balance").value = "";
        document.getElementById("loanAmount").value = "";
        document.getElementById("term").value = "";
        document.getElementById("repayments").value = "";
        return;
    }
    // make an array of the customer details by splitting the result by the delimiter '#'
    var personDetails = result.split('#');

    // get elements and display the results in the array

    document.getElementById("custID").value = personDetails[0];
    document.getElementById("address").value = personDetails[1];
    document.getElementById("eircode").value = personDetails[2];
    document.getElementById("dob").value = personDetails[3];
    document.getElementById("phone").value = personDetails[4];
    document.getElementById("AccountNumber").value = personDetails[5];
    document.getElementById("balance").value = personDetails[6];
    document.getElementById("repayments").value = personDetails[7];
    document.getElementById("term").value = personDetails[8];
    document.getElementById("loanAmount").value = personDetails[9];
}

// function to check if the user wants to really submit the updated form
function confirmCheck() {
    // declare variable
    var response;
    // confirm returns true if the Ok option is selected
    response = confirm('Are you sure you want to save these changes?');
    if (response) { // check for "ok"
        return true; // returns true
    } else { // the user cancelled the confirmation
        return false;
    }
}
```

```

// function to disable the fields when the user changes account
function unconfirmAccount() {
    document.getElementById("term").disabled = true;
    document.getElementById("loanAmount").disabled = true;
    document.getElementById("toggle").disabled = true;
    document.getElementById("submit").disabled = true;
}

// function to toggle the form between view and amend
function toggleForm() {

    // get the value of the button
    var toggleButton = document.getElementById("toggle").value;
    // if its set to amend details, change it to view details
    // and enable the fields
    if (toggleButton == "Amend Details") {
        document.getElementById("toggle").value = "View Details";
        document.getElementById("term").disabled = false;
        document.getElementById("loanAmount").disabled = false;
        document.getElementById("submit").disabled = false;
    }
    else { // if its set to view details, change it to amend details and disable the fields
        document.getElementById("toggle").value = "Amend Details";
        document.getElementById("term").disabled = true;
        document.getElementById("loanAmount").disabled = true;
        document.getElementById("submit").disabled = true;
    }
}
}

```

## Account Report Screen

Bank

Lodgements

Withdrawals

Customer File Maintenance

Account Maintenance

Management Menu

Quotes

Reports

Deposit account history

Loan account history

Current account history

Customer report

Current account interest report

Account report

Change password

### Account Report

Customer name

Select a customer

Customer ID

custID

Address

address

Date Of Birth

dd/mm/yyyy

Phone number

phone

View Accounts

Bank

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Loan account history

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Customer report

Current account interest report

Account report

Change password

### Account Report

Customer name

Harry Doyle

Customer ID

3

Address

54 The WillowsTulowCarlow

Date Of Birth

29/05/1999

Phone number

+353 859941521

View Accounts

Account Type	Account ID	Account Number	Balance
Current	84	93200745	-1.00
Loan	49	73263782	1000.00

Start date (optional):

dd/mm/yyyy

End date (optional):

dd/mm/yyyy

View Report

## index.php

```
<!--
Author   : Oliwier Jakubiec
Date     : Mar 2025
ID       : C00296807
Name     : index.php
Purpose  : Main page for account report
-->

<?php session_start(); // start the session
?>
<!-- html -->
<!DOCTYPE html>
<html lang="en">

<head>
    <!-- meta data -->
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Account Report</title>
    <!-- important css stuff for the sidemenu -->
    <?php require('../..//head.html') ?>
    <!-- css file -->
    <link rel="stylesheet" href="../../oliwierStyles.css">
    <!-- javascript file -->
    <script src="script.js"></script>
</head>

<!-- body of file -->

<body>
    <!-- include the sidemenu -->
    <?php require($_SERVER["DOCUMENT_ROOT"] . '/sideMenu.html');

    // if the view accounts button has been clicked then set the session vars to the values
of the form
    // this is done beforehand so the the values are set before the table is created
    if (isset($_POST['viewAccounts'])) {
        // set the session variables
        $_SESSION['report_customerID'] = $_POST['custID'];
        $_SESSION['report_address'] = $_POST['address'];
        $_SESSION['report_dob'] = $_POST['dob'];
        $_SESSION['report_phone'] = $_POST['phone'];
    }
    ?>

    <!-- main section -->
    <main>
        <!-- div for the form -->
        <div class="theForm">
            <h1>Account Report</h1>
            <form id="mainForm" action=".." method="post" onsubmit="return uncheckID()">
                <!-- box for customer name -->
                <!-- the text changes depending on the value of the session var 'name' -->
                <div class="inputbox">
                    <label for="custName">Customer name </label>
                    <select name="listbox" id="listbox" onchange="return populate()"
value="<?php if (isset($_SESSION['report_name']))
                    echo $_SESSION['report_name'] ?>">
                        <?php include "listbox.php" ?>
                    </select>
```



```

    </div>

    <!-- input for customer ID -->
    <!-- the text changes depending on the value of the session var 'customerID'
-->

    <!-- all fields are disabled -->
    <div class="inputbox">
        <label for="custID">Customer ID </label>
        <input type="number" name="custID" id="custID" placeholder="custID"
autocomplete=off required
            disabled value="<?php if (isset($_SESSION['report_customerID']))
                echo $_SESSION['report_customerID'] ?>" />
        </div>

    <!-- box for address -->
    <!-- the text changes depending on the value of the session var
'address' -->

    <div class="inputbox">
        <label for="address">Address</label>
        <input type="text" name="address" id="address" placeholder="address"
disabled
            value="<?php if (isset($_SESSION['report_address']))
                echo $_SESSION['report_address'] ?>" />
        </div>

    <!-- box for date of birth -->
    <!-- the text changes depending on the value of the session var 'dob' --
>

    <div class="inputbox">
        <label for="dob">Date Of Birth</label>
        <input type="date" name="dob" id="dob" placeholder="Date of Birth"
disabled value="<?php if (isset($_SESSION['report_dob']))
            echo $_SESSION['report_dob'] ?>" />
        </div>

    <!-- box for customer phone no. -->
    <!-- the text changes depending on the value of the session var 'phone'
-->

    <div class="inputbox">
        <label for="phone">Phone number</label>
        <input type="text" name="phone" id="phone" placeholder="phone"
disabled
            value="<?php if (isset($_SESSION['report_phone']))
                echo $_SESSION['report_phone'] ?>" />
        </div>

    <!-- submit button -->
    <div class="button">
        <input type="submit" name="viewAccounts" value="View Accounts" />
    </div>

</form> <!-- end of form -->

<!-- php section -->
<?php
    // if the view accounts button has been clicked then display the accounts
and rest of the form
    if (isset($_POST['viewAccounts'])) {
        // include the database connection
        include '../db.inc.php';
        // create the table

```

```

echo "<table>
    <thead><tr><th>Account Type</th>
        <th>Account ID</th>
        <th>Account Number</th>
        <th>Balance</th></tr>
    </thead>
    <tbody>";

// create query for current accounts first
$sql = "SELECT Customer.customerNo, firstName, surName, `Current
Account`.accountID, `Current Account`.accountNumber, balance FROM Customer
INNER JOIN `Customer/CurrentAccount` ON Customer.customerNo =
`Customer/CurrentAccount`.`customerNo`
INNER JOIN `Current Account` ON `Customer/CurrentAccount`.`accountID` =
`Current Account`.`accountID`
WHERE Customer.deletedFlag=0 AND `Current Account`.`deletedFlag` = 0 AND
Customer.customerNo = '$_POST[custID]';";

// check for sql errors
if (!$result = mysqli_query($con, $sql)) {
    die("Error in querying the database " . mysqli_error($con));
}

// if the number of rows in the result is greate than 0 then display the
results
if ($result->num_rows > 0) {
    // loop through the results and display them in the table
    while ($row = $result->fetch_assoc()) {
        // get all the values from the row
        $custNo = $row["customerNo"];
        $fname = $row["firstName"];
        $lname = $row["surName"];
        $accID = $row["accountID"];
        $accNum = $row["accountNumber"];
        $balance = $row["balance"];
        // create a string with all the values and current
        $allText = "$custNo#$fname#$lname#$accID#$accNum#Current";
        // display the row in the table
        // set the id of the row to the string with all the row values
        so that it can be accessed later
        // onclick showDetails(this) selects the row
        echo "<tr class='accountRow' id='$allText'
onclick='showDetails(this)'"
            <td>Current</td>
            <td>" . $row['accountID'] . "</td>
            <td>" . $row['accountNumber'] . "</td>
            <td>" . $row['balance'] . "</td>
            </tr>";
    }
}

// create query for loan accounts
$sql = "SELECT Customer.customerNo, firstName, surName, `Loan
Account`.accountID, `Loan Account`.accountNumber, balance FROM Customer
INNER JOIN `Customer/LoanAccount` ON Customer.customerNo =
`Customer/LoanAccount`.`customerNo`
INNER JOIN `Loan Account` ON `Customer/LoanAccount`.`accountID` = `Loan
Account`.`accountID`
WHERE Customer.deletedFlag=0 AND `Loan Account`.`deletedFlag` =0 AND
Customer.customerNo = '$_POST[custID]';";

// check for sql errors

```

```

if (!$result = mysqli_query($con, $sql)) {
    die("Error in querying the database " . mysqli_error($con));
}

// if the number of rows in the result is greater than 0 then display the
results
if ($result->num_rows > 0) {
    // loop through the results and display them in the table
    while ($row = $result->fetch_assoc()) {
        // get all the values from the row
        $custNo = $row["customerNo"];
        $fname = $row["firstName"];
        $lname = $row["surName"];
        $accID = $row["accountID"];
        $accNum = $row["accountNumber"];
        $balance = $row["balance"];
        // create a string with all the values and loan
        $allText = "$custNo#$fname#$lname#$accID#$accNum#Loan";
        // display the row in the table
        // set the id of the row to the string with all the row values
        so that it can be accessed later
        // onclick showDetails(this) selects the row
        echo "<tr class='accountRow' id='$allText'
onclick='showDetails(this)'"

            <td>Loan</td>
            <td>" . $row['accountID'] . "</td>
            <td>" . $row['accountNumber'] . "</td>
            <td>" . $row['balance'] . "</td>
        </tr>";
    }
}
// close the table tag
echo "</tbody></table>";
// close the connection
mysqli_close($con);

// create the form for the account report
echo '<form action="report.php" method="POST">
    <input type="hidden" name="accountNumber" id="accountNumber"
value="" />

    <div class="inputbox">
        <label for="startDate">Start date (optional):</label>
        <input type="date" name="startDate" id="startDate" />
    </div>
    <div class="inputbox">
        <label for="endDate">End date (optional):</label>
        <input type="date" name="endDate" id="endDate"/>
    </div>';

    echo    "<div class='button'>
            <input type='submit' value='View Report' name='View Report'
id='submit' disabled/>

            </div>
        </form>";
    }
    ?> <!-- end of php section -->

    </div> <!-- end of form -->
</main>
</body>
</html>

```

## listbox.php

```
<!--
Author   : Oliwier Jakubiec
Date     : Mar 2025
ID       : C00296807
Purpose  : dropdown list of customers
-->
<?php
// include db connection and set timezone
include '../db.inc.php';
date_default_timezone_set("UTC");

// create sql query
$sql = "SELECT customerNo, firstName, surName, address, dateOfBirth, telephoneNo
        FROM `Customer` WHERE deletedFlag = 0;";

// check if query is successful
if (!$result = mysqli_query($con, $sql)) {
    die("Error in querying the database " . mysqli_error($con));
}

// if customerId is not null, get the value, otherwise set it to empty string
$selectedCust = $_SESSION['report_customerID'] ?? '';

// create dropdown
echo "<option value='placeholder'>Select a customer</option>";

// loop through the result and create an option for each customer
while ($row = mysqli_fetch_array($result)) {
    // get the values from the row
    $id = $row["customerNo"];
    $fname = $row["firstName"];
    $lname = $row["surName"];
    $addr = $row["address"];
    $dob = $row["dateOfBirth"];
    $phone = $row["telephoneNo"];
    $name = $fname . " " . $lname;
    // create a string with all the values
    $allText = "$id#$addr#$dob#$phone";
    // if the selected customer from the session is the same as the current
    // customer, set the selected attribute to selected, else set it to empty string

    $selected = ($id == $selectedCust) ? "selected" : "";
    echo "<option value='$allText' $selected>$name</option>";
}
// close connection
mysqli_close($con);
```

## report.php

```
<!--
Author   : Oliwier Jakubiec
Date     : Mar 2025
Name     : confirmAcc.php
Purpose  : confirm the account and displau the report for the account
-->
<?php session_start(); // start the session
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <!-- meta data -->
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Account Report</title>
    <!-- important css stuff for the sidemenu -->
    <?php require('../../head.html') ?>
    <!-- css file -->
    <link rel="stylesheet" href="../oliwierStyles.css">
    <!-- javascript file -->
    <script src="/script.js"></script>
</head>
<!-- body -->
<body>
    <!-- include sidemenu -->
    <?php require($_SERVER["DOCUMENT_ROOT"] . '/sideMenu.html');?>
    <main>
        <?php
            // include db connection
            include '../db.inc.php';
            echo "<h1>Account Report</h1>";
            // split the account info back into an array
            //customerNo firstName surName accountId accountNum balance
            $accountInfo = explode("#", $_POST['accountNumber']);

            // get the values from the array
            $customerNo = $accountInfo[0];
            $name = $accountInfo[1] . " " . $accountInfo[2];
            $accountId = $accountInfo[3];
            $accountNum = $accountInfo[4];
            $accountType = $accountInfo[5];

            // create the div for the report
            echo "<div class='report'>";
            // get the date 6 months ago and today
            $dateMinus6months = date("Y-m-d", strtotime("-6 months"));
            $today = date("Y-m-d");

            // check to see if the account is a current account or a loan account
            if ($accountType == "Current") {
                // print account info
                echo "<u>Current Account</u><br><br>";
                echo "<div style='display: flex; justify-content: space-between;'>
                    <p>Account Number: $accountNum</p>
                    <p>Customer Name: $name</p>
                </div>";

                // check to see what time frame the user has selected
                // if no dates are selected, set the time frame to the last 6 months
                if ($_POST['startDate'] == "" && $_POST['endDate'] == "") {
```

```

        $timeFrame = "AND date BETWEEN '$dateMinus6months' AND '$today'";
    } // if start date is not selected, set the time frame to the end date selected
    else if ($_POST['startDate'] == "") {
        $timeFrame = "AND date >= '' . $_POST['endDate'] . ''";
    } // if end date is not selected, set the time frame to the start date
selected
    else if ($_POST['endDate'] == "") {
        $timeFrame = "AND date <= '' . $_POST['startDate'] . ''";
    } // else both dates are selected, set the time frame to the dates selected
    else {
        $timeFrame = "AND date BETWEEN '' . $_POST['endDate'] . '' AND '' .
$_POST['startDate'] . ''";
    }

    // create the sql query
    $sql = "SELECT * FROM `Current Account History` WHERE accountId='$accountId'
$timeFrame ORDER BY `Current Account History`.date ASC;";
    // check for sql errors
    if (!$result = mysqli_query($con, $sql)) {
        die('Error in querying the database ' . mysqli_error($con));
    }

    if (mysqli_affected_rows($con) == 0) {
        // if no transactions found display message
        echo "<p id='message'>No transactions found within the selected time
frame</p>";
    } else {
        // if transactions found display table of transactions
        echo "<table>
            <thead><tr>
                <th>Date</th>
                <th>Transaction Type</th>
                <th>Transaction Amount</th>
                <th>Balance</th>
            </tr></thead>
            <tbody>";
        // while there are rows in the result, display the data in the table
        while ($row = mysqli_fetch_array($result)) {
            // format the date to dd-mm-yyyy
            $date = date_create($row['date']);
            $date = date_format($date, "d-m-Y");
            // display the data in the table
            echo "<tr>
                <td>". $date . "</td>
                <td>". $row['transactionType'] . "</td>
                <td>". $row['amount'] . "</td>
                <td>". $row['balance'] . "</td>
            </tr>";
        }
        // close the table
        echo "</tbody></table>";
    }
} // else the account is a loan account
else {
    // print account info
    echo "<u>Loan Account</u><br><br>";
    echo "<div style='display: flex; justify-content: space-between;'>
        <p>Account Number: $accountNum</p>
        <p>Customer Name: $name</p>
    </div>";
    // check to see what time frame the user has selected
    // if no dates are selected, set the time frame to the last 6 months

```

```

        if ($_POST['startDate'] == "" && $_POST['endDate'] == "") {
            $timeFrame = "AND transactionDate BETWEEN '$dateMinus6months' AND '$today'";
        } // if start date is not selected, set the time frame to the end date selected
        else if ($_POST['startDate'] == "") {
            $timeFrame = "AND transactionDate >= '" . $_POST['endDate'] . "'";
        } // if end date is not selected, set the time frame to the start date
selected
        else if ($_POST['endDate'] == "") {
            $timeFrame = "AND transactionDate <= '" . $_POST['startDate'] . "'";
        } // else both dates are selected, set the time frame to the dates selected
        else {
            $timeFrame = "AND transactionDate BETWEEN '" . $_POST['endDate'] . "' AND '"
. $_POST['startDate'] . "'";
        }
        // create the sql query
        $sql = "SELECT * FROM `Loan Account History` WHERE accountId='$accountId'
$timeFrame ORDER BY `Loan Account History`.transactionDate ASC";
        // check for sql errors
        if (!$result = mysqli_query($con, $sql)) {
            die("Error in querying the database " . mysqli_error($con));
        }
        // create table
        echo "<table>
            <thead><tr>
                <th>Date</th>
                <th>Transaction Type</th>
                <th>Transaction Amount</th>
                <th>Balance</th>
            </tr></thead>
            <tbody>";
        // while there are rows in the result, display the data in the table
        while ($row = mysqli_fetch_array($result)) {
            // format the date to dd-mm-yyyy
            $date = date_create($row['transactionDate']);
            $date = date_format($date, "d-m-Y");
            // display the data in the table
            echo "<tr>
                <td>".$date."</td>
                <td>".$row['transactionType']."</td>
                <td>".$row['repaymentAmount']."</td>
                <td>".$row['balance']."</td>
            </tr>";
        }
        // close the table
        echo "</tbody></table>";
    }
    // close the report div
    echo "</div>";
    // close the connection
    mysqli_close($con);
    ?>

<!-- back button to send you back to customer and account selection-->
<form action="." method="post">
    <div class="button">
        <input type="submit" value="Back">
    </div>
</form>

</main>
</body>
</html>

```

## script.js

```
// Author   : Oliwier Jakubiec
// ID      : C00296807
// Date    : Mar 2025
//Purpose: This file contains the javascript functions for the account-report page
// function to display a customer details based on the value in listbox
function populate() {
    // get the listbox element
    var sel = document.getElementById("listbox");
    // get the selected item in the dropdown
    var result = sel.options[sel.selectedIndex].value;
    if (result == "placeholder") {
        // if the placeholder is selected clear the fields
        document.getElementById("custID").value = "";
        document.getElementById("address").value = "";
        document.getElementById("dob").value = "";
        document.getElementById("phone").value = "";
        return;
    }
    // make an array of the customer details by splitting the result by the delimiter '#'
    var personDetails = result.split('#');
    // get elements and display the results in the array
    document.getElementById("custID").value = personDetails[0];
    document.getElementById("address").value = personDetails[1];
    document.getElementById("dob").value = personDetails[2];
    document.getElementById("phone").value = personDetails[3];
}
// function to undisable the fields so that they can be posted
function uncheckID() {
    // set all the fields to be enabled
    document.getElementById("custID").disabled = false;
    document.getElementById("address").disabled = false;
    document.getElementById("dob").disabled = false;
    document.getElementById("phone").disabled = false;
    return true;
}
// function to select the account
function showDetails(element) {
    // if the element is already selected, deselect it
    if (element.classList.contains("selectedAccount")) {
        element.classList.remove("selectedAccount");
        document.getElementById("submit").disabled = true;
        document.getElementById("accountNumber").value = "";
        return; // return to avoid the rest of the function
    }
    // get all the elements with the class name accountRow
    var array = document.getElementsByClassName("accountRow");
    // for each element in the array, remove the selectedAccount class
    for (var i = 0; i < array.length; i++) {
        array[i].classList.remove("selectedAccount")
    }
    // add the selectedAccount class to the clicked element
    element.classList.add("selectedAccount");
    // enable the submit button
    document.getElementById("submit").disabled = false;
    // set the value of the accountNumber hidden field to the id of the selected account
    document.getElementById("accountNumber").value = element.id;
}
```



# CSS

## oliwierStyles.css

```
/*
Name: Oliwier Jakubiec
Date: March 2025
ID : C00296807
Title: loan Account and account report Css file
*/

/* some css constant variables for consistent colours between pages */
:root {
  --sidebar-bg-color: #78569F;
  --content-bg-color: #EED7FB;
}

/* give all elements box sizing of border box */
* {
  box-sizing: border-box;
}

/* the main div */
.theForm {
  /* adds space above the form */
  margin-top: 6em;
  /* sets a light purple background colour */
  background-color: var(--content-bg-color);
  /* thin purple border */
  border: solid var(--sidebar-bg-color) 2px;
  /* rounded borders */
  border-radius: 16px;
  /* space around the form's elements */
  margin-top: 50px;
  padding: 16px;
  max-width: 50%;
  min-width: fit-content;
  margin: 50px auto 10px;
}

/* styles the inputs */
.inputbox > input, select {
  /* !important because the nav menu conflicts with these styles */
  /* thin purple border */
  border: solid var(--sidebar-bg-color) 2px !important;
  /* slight rounded border */
  border-radius: 8px !important;
  /* horizontal padding */
  padding: 4px 8px !important;
}

/* inputs of id submit when disabled */
input#submit:disabled, input#toggle:disabled {
  /* darken the color */
  background-color: #d9cfd7;
  color: #7c7c7c;
  border-color: #c5c5c5;
  /* no cursor */
  cursor: default;
}

/* button input */
```

```

.button > input {
  /* padding */
  padding: 0.2rem 3rem;
  font-size: 1.2rem;
  height: auto;
  display: block; /* lets it be centered */
  border-radius: 5px;
  background-color: #f8fdff;
  color: black;
  border: solid var(--sidebar-bg-color) 2px;
  cursor: pointer; /* cursor changes to pointer when hovered */
  transition-timing-function: ease-out; /* smooth transition */
  transition: 0.6s; /* transition time */
  margin: 10px auto; /* center the button */
}

/* button input when hovered */
.button > input:hover {
  color: white;
  background-color: var(--sidebar-bg-color);
}

/* read only inputs */
input:read-only, input:read-only:focus {
  outline: none;
}

/* table styles */
table {
  /* center table */
  margin: 0 auto;
  border-spacing: 0px; /* no space between cells */
  padding: 10px;
  width: -webkit-fill-available; /* fill the width available*/
}

/* style for each row in the table */
.accountRow {
  /* center row */
  margin: 0 auto;
  padding: 5px;
  max-width: fit-content; /* fit the content */
  cursor: pointer; /* cursor changes to pointer when hovered */
}

/* style for the currently selected account */
.selectedAccount {
  /* change the background color, important makes it override the old color */
  background: #ae6fae !important;
  color: white;
  /* underline for emphasis */
  text-decoration: underline;
}

/* style for the report */
.report {
  /* adds space above the form */
  margin-top: 6em;
  /* sets a light purple background colour */
  background-color: var(--content-bg-color);
  /* thin purple border */

```

```

border: solid var(--sidebar-bg-color) 2px;
/* rounded borders */
border-radius: 16px;
/* space around the form's elements */
margin-top: 50px;
padding: 16px;
max-width: 50%;
min-width: 800px;
/* center */
margin: 50px auto;
}

/* make paragraphs slightly larger */
p {
  font-size: 1.1rem;
}

/* align cell text in the center and add padding */
td {
  text-align: center;
  padding: 2px;
}

/* table header padding */
th {
  padding: 10px;
}

/* each table track that is an even child so 2,4,6,... */
tr:nth-child(even) {
  background-color: #e0c7ea;
}

/* make labels a little larger */
.inputbox > label {
  width: 275px;
}

/* style for error messages */
.errorStyle {
  color: red;
  text-align: center;
  font-size: 30px;
}

```