Instructions

- 1. **The project** assignment for the module consists of one question which contributes **70%** to your final marks covering both elements of the web and databases.
- 2. The project assignment should be done **individually**.
- 3. The project assignment task is to develop **web application pages** that connect to a database for the business processes defined in the question. The web application should be developed using **PHP which should be connected to SQLite**.
- 4. The deliverable submission should use the following naming convention:

DBWCoursework_StudentID.zip

example: DBWCoursework_232208.zip

- 5. The submission point is via Turnitin Blackboard and Github (if applicable).
- 6. Please read the question and requirements carefully.

Key Dates

Hand-out: 1 Nov 2021, Monday, 3pm.

Hand-in: 16 Dec 2021, Thursday, 3pm.

In-Module Retrieval

See Appendix B

Question

Bank ABC is organising a campaign for their customers. The campaign is only open to new customers to the bank. The bank would like customers to access a web page to register their interest in account opening during the campaign period (2 Jan 2022 – 30 Jan 2022) and the customers will enjoy the following benefits:

Account name: Time Deposit Account-Jan2022 Free £15 voucher – upon successful placement Interest rate 2.88% AER p.a.

On top of these benefits, the customers stand a chance of winning £10,000 (for 10 customers),

Placement Amount	Minimum	Lucky Draw Entry
	Tenure (Month)	
£100	6	10
£300	5	15
£500	3	25
£800	3	35
£1000	3	45
£5000	3	55
£10,000	5	60
£15,000	5	65

(Entries are automatic upon successful deposit placement)

Develop web application pages for the following business processes:

Customer Page

There are **TWO** (2) pages that need to be developed for customers' access.

1. Register for interest page

The page where customers can access and register interest to open a Time Deposit Account-Jan2022 during the campaign period. The following fields are to be captured upon submission,

- First Name
- Last Name
- Date of birth
- Month of birth

- Postcode
- Contact number
- Product

Placement amounts and their tenures should be presented in the **dropdown** button as per the table above.

On top of the fields above, there should be additional fields that are needed for internal use (staff of the bank) such as *application status*, *application date*, *application ID*, and *lucky draw entries*. New submissions from customers should be captured as a "new" status.

Upon submission (register for interest), the customer will be provided with the following message,

"Thank you for your interest to open a Time Deposit Account with us under this campaign. Your application ID is WWXXYYZZZZZZZZZ. Only one application is allowed per customer.

You will have xx entries for the lucky draw (stand a chance to win £10,000) upon successful deposit placement until the end of account tenure.

Your record has been successfully submitted. You may update your record as long as your application status is "new" by providing the application ID from this link"

The application ID should have the following format:

WW – the first 2 letters from the last name XX – the first 2 letters from the first name YY – the last 2 letters from the postcode ZZZZZZZZ – dateRandomNumber

Example:

First Name: Zairul Last Name: Jilani Postcode: S11WB

Date of application: 28 March 2021

The application ID will be: jizawb2800001

2. Update record page

Write a page where the customer can access and input their **application ID**, **postcode**, and their **last name**. The customer would be able to update the following records:

- Product
- Withdraw my application (should be "Yes" or "No" radio button)

If the customer wishes to withdraw the application, the status of the field in the database should be updated as "withdrawn". Upon completion of this process, appropriate message should be prompted to the customer.

Admin Page

Admin is the staff of the bank. The staff would be able to login to the page and see a **list of customers** who have registered interest in the campaign. The staff is able to **edit** the customers' details and update status from "**new**" to "**in the process**". The staff is also able to update the application status as follows

New, In-process, Complete, On-hold, Withdrawn

Note: *Application ID* is **NOT** editable even though the customer has changed their first name, last name and postcode.

Also, take note that lucky draw entries should be updated accordingly every time the product record is updated (from the admin or customers).

IMPORTANT NOTES:

Following requirements contribute excellent marks to your work,

- User login and authentication
- Sessions
- Audit trail for customer updates^{Note A}
- Filter customers by status to view
- Delete customers with withdrawn status only
- PDF report

Note A: Since customer is allowed to update their record, the staff should be able to see who and what have been updated.

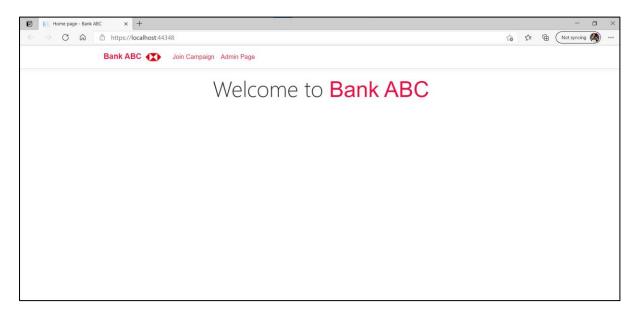
Assignment Deliverables

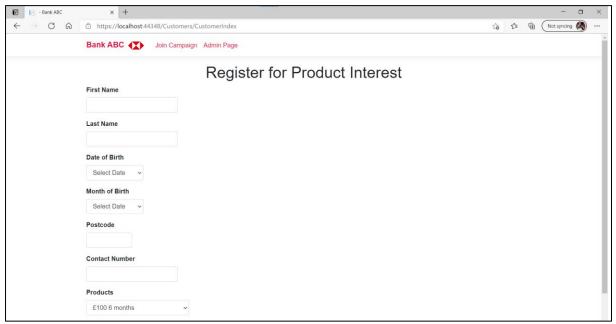
There are three (3) MANDATORY deliverables for the work,

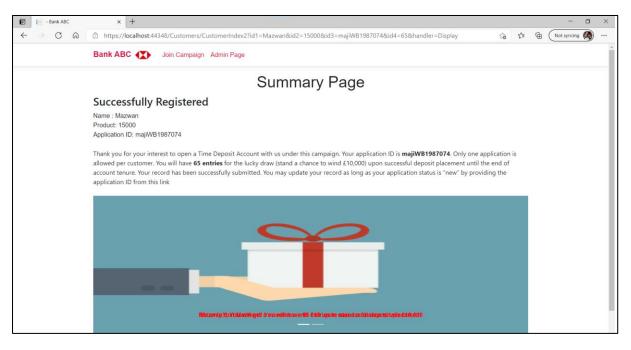
- 1. A video (**NOT** more than **10 minutes**) showcasing the web pages and their source codes. You will loss 15% if you do not submit this deliverable.
- 2. The web application source-code. Can be **EITHER** Github **OR** upload the source-code to blackboard. If the source-code is submitted via Github, make sure the project is **public** and **share the Github link the word document** in the deliverable (3) below.
- 3. A word document outlining the tables and their SQL statements used in the program.

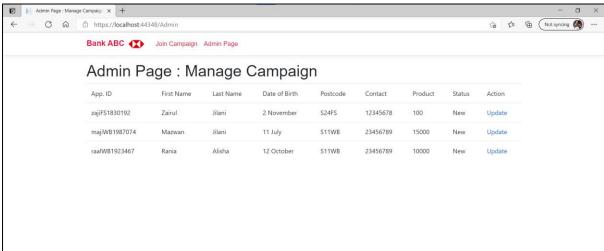
Appendix A

Examples of pages (Minimal Requirements)









(Screenshots are for guidance, your deliverable should be as per the question requirements)

Appendix B

In-module Retrieval

Following first-sit assessment, In-Module Retrieval (IMR) will be offered to students achieving below 40% for this assessment task.

IMR means that you will have an opportunity to resubmit a reworked version of your original assignment, following feedback, within a short space of time (usually 5-10 working days) in order to achieve a pass grade. The maximum mark available is 40%. You will need to look out for an email from your Module Leader (to your SHU email address) shortly after the marks have been released. This will give you more details and tell you what you need to do next.

If you decide not to participate in the In-Module Retrieval attempt and subsequently do not pass the module, you will be referred which means you will have an opportunity to resubmit an assignment during the reassessment period (usually July for students on standard courses).

The time available to you to submit an IMR attempt will be less for those students who submit after the original submission deadline date (with or without an approved extension).

Further information about IMR is available on Assessment 4 Students on shuspace.

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Marking Scheme

Section	Marks
Web application	50
Databases	50
Total marks	100

The Web	Fail	Pass	2-2	2-1	First	
Requirement (20%)	<40%	40-49%	50-59%	60-69%	>70%	Weightage
					The page is	
					delivered beyond	
					the business	
					requirement and	
		Attempt to		Good work in	expectation,	
		develop the page		delivering the	covering summary	
		is shown,	The page is	page as per the	page with	
Customer register for	No evidence for	however plenty of	delivered with	business	appropriate	
interest page	the page	errors presence	minor errors	requirement	messages.	10%
		Attempt to		Good work in	The page is	
		develop the page		delivering the	delivered beyond	
		is shown,	The page is	page as per the	the business	
Customer update	No evidence for	however plenty of	delivered with	business	requirement and	
application page	the page	errors presence	minor errors	requirement	expectation	10%
		Attempt to				
		develop the login		Good work in	The page is	
		page for admin,		delivering the	delivered covering	
		however plenty of	The page is	page as per the	exceptional	
	No evidence for	errors presence	delivered with	business	handling and	
Admin login page	the page	and not working	minor errors	requirement	session	10%

The Web	Fail	Pass	2-2	2-1	First	
Requirement (20%)	<40%	40-49%	50-59%	60-69%	>70%	Weightage
					The pages are	
					delivered beyond	
					the business	
					requirement and	
		Attempt to		Good work in	expectation,	
		develop the		delivering the	covering PDF,	
Admin nages (view and		pages is shown,	The page/s are	pages as per the	filter customers by	
Admin pages (view and	No evidence for	however plenty of	delivered with	business	status to view,	
update)	the pages	errors presence	minor errors	requirement	and audit trail.	10%
Function/code for		Attempt to	These	The logic for the	Functions are	
getting number of		develop this	requirements are	requirements	written in a class	
entries and application	No evidence for	feature in the	delivered with	presence in the	and being called	
ID.	this function	web pages	errors.	program.	appropriately.	5%
		nes pege		Very good		
			Good	development of a	Excellent	
	Poor	The student has	understanding of	web application.	development of a	
	development of	evident the logic	web application	Some part of the	web application	
Technical and code	the web	of developing a	development in the	code can be	presented in the	
quality.	application.	web application.	source-code.	improved.	source-code.	5%
				Evidence of	Evidence of	
Insert record.	This requirement	Insertion of	Evidence of	inserting data into	inserting data into	
macri record.	is not included.	record is included	inserting at least	more than one	all the required	
		but some errors	one record	table	tables	
		exist when	successfully.	successfully.	successfully.	
		inserting records.				15%
		Update of record			Evidence of	
		is included but	Evidence of	Evidence of	updating records	
		some errors exist	updating at least	updating more	on all required	
	This requirement	when updating	one record	than one record	tables	
Update record.	is not included.	records.	successfully.	successfully.	successfully.	10%

The Web	Fail	Pass	2-2	2-1	First	
Requirement (20%)	<40%	40-49%	50-59%	60-69%	>70%	Weightage
					The admin staff is	
					allowed to delete	
					customer records	
					who have	
					<i>withdrawn</i> only.	
					Customer records	
		Deletion of record			with other than	
		is included but	Evidence of	Evidence of	this status are not	
		some errors exist	deleting at least	deleting more	allowed to be	
Delete customers with	This requirement	when deleting	one record	than one record	deleted by the	
withdrawn status only.	is not included.	records.	successfully.	successfully.	admin staff.	10%
					Excellent	
					presentation	
					delivered within	
				Good video	10 minutes	
	These			presentation with	covering the	
	requirements or		A video	clear explanation	application end to	
A vide a na aprelia a	some parts of the	Only one of the	presentation and	on the feature	end process and	
A video recording,	requirements are	deliverables is	source codes are	delivered in the	presented their	
source codes	not delivered.	submitted.	submitted.	work.	source code.	15%
Total						100%