ASSESSMENT BRIEF 4 – Group Assignment

COURSE: Bachelor of Information Technology	
Unit Code:	DWIN309
Unit Title:	Developing Web Information Systems
Type of Assessment:	Task 4 – Formative Assessment
Length/Duration:	Weeks 3 - 12
Unit Learning Outcomes addressed:	1. Develop a web-based information system using basic technologies such as mark-up languages, stylesheets, JavaScript, PHP, and databases. 2. Produce relevant design, implementation and test documentation, including risk, service and change management plans. 3. Critically analyse a range of software development methodologies, compare their strengths and weaknesses and have an in-depth understanding of the design process, platforms and tools for developing a web information system. 4. Work effectively as part of a team in the production of a web information system and related documentation and reports.
Submission Date:	Week 12
Assessment Task:	Group Assignment – Final Working Tested System and Documentation
Total Mark:	65 marks
Weighting:	60%

Students are advised that **submission of an Assessment Task past the due date without a formally signed approved Assignment Extension Form** (Kent Website *MyKent Student Link> FORM – Assignment Extension Application Form – Student Login Required)* **or previously approved application for other extenuating circumstances impacting course of study, incurs a 5% penalty per calendar day**, calculated by deduction from the total mark.
For example. An Assessment Task marked out of 40 will incur a 2 mark penalty for each calendar day.

More information, please refer to *(*Kent Website *MyKent Student Link> POLICY – Assessment Policy & Procedures – Student Login Required)*

ASSESSMENT DESCRIPTION:

This assignment will be undertaken in groups of **Three or Four students**. Based on the case study provided in Task 1 (System Design Solution Assignment), students are required to build, implement a web-site and submit the project (Working Tested System – program code) as well as a document report for the system.

The document report should address the following points:

- Achieves the required functionality – clearly articulate what worked well and why, what did not work well and why, how to improve.
- Testing the system - testing of an individual program or module including identifying and eliminating execution errors that could the program to terminate abnormally, and logic errors that could have been missed during desk checking.
- Program documentation - describing the inputs, outputs, and processing logic for all program modules.
- System documentation – describing the system's functions and how they are implemented – eg. Data dictionary entries, data flow diagrams, screen layout, source documentation.
- User documentation - consisting of instructions and information to users who will interact with the system and includes user manuals.

This assignment is aimed at developing a web-based application for a fictious banking website. The system is an online application that can be accessed throughout the organization and outside as well with proper login provided.

The directory of the website has been planned to have a simple MVC architecture, with a centralised storage of the database. The user interfaces have to be designed using HTML5 and CSS3 styling when necessary. The middleware can be developed using PHP scripts along with the SQL queries.

Following are the functional needs of the system:

1. Customer must have a valid user ID and password to login to the system. (You can have a hardcoded user details to start with in the back end. Also have initial balance to start with zero)
2. After the valid user logs in, the system shows the present balance in that particular account.
3. Customer can perform transactions like deposit and withdrawal from his/her account. There are only three types of account available: Saving Bank Account, Credit Bank Account, and Everyday Bank Account.
4. Transfer of funds to other accounts.
5. Deposit of funds by the client.
6. You need to keep track of all the transactions for future references as this is supposed to be show the customer as a statement.
7. It is required that the system also have another type of user who is an Administrator of the system.
8. Administrator can see, add, edit and remove any customers from the banking list.
9. When a user logs out after depositing funds or transferring funds and then logs in back again, the old transactions along with the updated balance should not be lost.
10. All the above-mentioned tasks should be interacting with the Database in the backend using SQL queries along with the PHP scrips in the middleware and HTML, HTML5 and CSS for the front end.

ASSESSMENT SUBMISSION:

A written assignment undertaken in groups of in the form of a report addressing a selected topic related to abovementioned project. This assessment is a group project/activity and students are required to work with their respective groups. No individual submission will be accepted. You will not receive any marks for this assignment if your group members collectively report against you for non-participation or non-cooperation. You have to nominate someone as your group leader to coordinate the assignment submission. Only one submission is accepted for each group.

MARKING GUIDE (RUBRIC):

Marking Criteria	Lecturer Expectation	Marks	Comments
Teamwork and good organisatio	Team has energy and enthusiasm; each member has a clear role. Active participation in projects, assignments, attendance/discussions, and critiques	5	
Construction of web structure	Good organisation of files and folders. The directory structure of the web site groups files in directories, following the MVC pattern, which make it easy to find the files for specific purpose.	5	
User Interface using HTML/CSS3	User interface is constructed using both HTML and CSS. Pages are well designed with proper layout. Each page contains appropriate navigation, header, and footer.	10	
PHP/MySQL Coding with Comments	Database creation, Database connectivity, displaying results, transactions. Well documented code, making it easier to understand the logic and program flows.	5	
Achieves required functionality	Achieves all the required functional requirements as identified in the design solution	15	
Testing the system	Team used systematic testing to validate or drive refinement for testing of	10	

	an individual program or module including identifying and eliminating execution errors that could the program to terminate abnormally, and logic errors that could have been missed during desk checking.		
Support Documentation	Documents program, explains well the inputs, outputs, and processing logic for all program modules. System documentation describes well the system's functions and how they are implemented – eg. Data dictionary entries, data flow diagrams, screen layout, source documentation. User documentation explains, well and clear with no use of jargon, instructions and information to users who will interact with the system. Documents process, explains ideas well, clear introduction and conclusion, obvious transitions, doesn't use jargon, demonstrates knowledge of key points.	15	
Total Marks		**65**	

GENERAL NOTES FOR ASSESSMENT TASKS

Content for Assessment Task papers should incorporate a formal introduction, main points and conclusion.

Appropriate academic writing and referencing are inevitable academic skills that you must develop and demonstrate in work being presented for assessment. The content of high quality work presented by a student must be fully referenced within-text citations and a Reference List at the end. Kent strongly recommends you refer to the Academic Learning Support Workshop materials available on the Kent Learning Management System (Moodle). For details please click the link http://moodle.kent.edu.au/kentmoodle/mod/folder/view.php?id=3606 and download the file titled "Harvard Referencing Workbook". This Moodle Site is the location for Workbooks

and information that are presented to Kent Students in the ALS Workshops conducted at the beginning of each Trimester.

Kent recommends a minimum of **FIVE (5)** references in work being presented for assessment. Unless otherwise specifically instructed by your Lecturer or as detailed in the Unit Outline for the specific Assessment Task, any paper with less than five (5) references may be deemed not meeting a satisfactory standard and possibly be failed.

Content in Assessment tasks that includes sources that are not properly referenced according to the "*Harvard Referencing Workbook*" will be penalised.

Marks will be deducted for failure to adhere to the word count if this is specifically stated for the Assessment Task in the Unit Outline. As a general rule there is an allowable discretionary variance to the word count in that it is generally accepted that a student may go over or under by 10% than the stated length.

General Notes for Referencing

References are assessed for their quality. Students should draw on quality academic sources, such as books, chapters from edited books, journals etc. The textbook for the Unit of study can be used as a reference, but not the Lecturer Notes. The Assessor will want to see evidence that a student is capable of conducting their own research. Also, in order to help Assessors determine a student's understanding of the work they cite, all in-text references (not just direct quotes) must include the specific page number(s) if shown in the original. Before preparing your Assessment Task or own contribution, please review this 'YouTube' video (Avoiding Plagiarism through Referencing) by clicking on the following link: link:
http://moodle.kent.edu.au/kentmoodle/mod/folder/view.php?id=3606

A search for peer-reviewed journal articles may also assist students. These type of journal articles can be located in the online journal databases and can be accessed from the Kent Library homepage. Wikipedia, online dictionaries and online encyclopaedias are acceptable as a starting point to gain knowledge about a topic, but should not be over-used – these should constitute no more than 10% of your total list of references/sources. Additional information and literature can be used where these are produced by legitimate sources, such as government departments, research institutes such as the National Health and Medical Research Council (NHMRC), or international organisations such as the World Health Organisation (WHO). Legitimate organisations and government departments produce peer reviewed reports and articles and are therefore very useful and mostly very current. The content of the following link explains why it is not acceptable to use non-peer reviewed websites (Why can't I just Google?): https://www.youtube.com/watch?v=N39mnu1Pkgw
(thank you to La Trobe University for access to this video).