



Unit: Dynamic Websites

Assignment title: Home Library System

December 2015 – Sample Assignment

Marking Scheme

Markers are advised that, unless a task specifies that an answer be provided in a particular form, then an answer that is correct (factually or in practical terms) **must** be given the available marks. If there is doubt as to the correctness of an answer, the relevant NCC Education materials should be the first authority.

This marking scheme has been prepared as a **guide only** to markers and there will frequently be many alternative responses which will provide a valid answer.

Each candidate's script must be fully annotated with the marker's comments (where applicable) and the marks allocated for each part of the tasks.

Throughout the marking, please credit any valid alternative point.

Where markers award half marks in any part of a task, they should ensure that the total mark recorded for the task is rounded up to a whole mark.

Task	Guide	Maximum Marks
1	Setup Page for Database	
	The set up page should create a table of users (2 marks) and books	
	(2 marks). It should ensure that auto-incrementing primary keys are	
	set on the appropriate fields (2 marks). It should make use of	10
	appropriate data types (2 marks) and a timestamp field (2 marks)	
2	Login and Registration	
	The login and registration should include the following:	
	A prompt to register if a login fails (3 marks) Onde to be relie attempting to register an existing vacarrage (2).	
	 Code to handle attempting to register an existing username (3 marks) 	
	 Code to check the provided password against the stored password (3 marks) 	
	Code to create a new user when a registration is attempted (3)	
	marks)	
	Additional marks are available for making the login system more	
	robust as discussed in the module book (3 marks):	
	Limit number of attempts	
	Reset of attempts after a set period of time	15
3	Adding books	
	Adding books is relatively complex, and requires the following:	
	Pulling information from an HTML front-end (5 marks)	
	Sending information to a PHP backend via GET or POST (5	
	marks)	
	Accessing a web service to identify ISBN (5 marks)	20
4	Updating the front-end as elements are added (5 marks) Correling for books	20
4	Searching for books Ensure that users can search for a book by use of the fields: author	
	(4 marks), title (4 marks), year of publication (4 marks) and current	
	location (4 marks).	
	An additional 4 marks are available for making the keyword search	
	facility for title as comprehensive as possible (i.e. allow flexibility in	
	choice(s) of keyword(s))	20
5	Deletion of books / modification of records	
	Displaying a list of all a user's books along with options for	
	deleting or modifying (3 marks)	
	Allowing the facility to delete a book (3 marks)	
	Allowing the record for a book to be modified (4 marks)	10
6	Use of Sessions or Cookies	
	Marks should be awarded for the use of sessions or cookies, for	
	example:	
	Storing username on login	
	 Using cookie or session information for database queries 	5
7	Ease of use, Evaluation and Accessibility	
	Ease of use and accessibility (5 marks)	
	 Evidence showing how the student has tested and evaluated 	
	the system (5 marks)	
		10

Task	Guide	Maximum Marks
8	Reflection	
	A 500 word reflection on the activity.	
	What has been learnt?	
	How could the system be improved or further developed?	
	Award marks for a well written, honest reflective account	10

Learning Outcomes matrix

Task	Learning Outcomes assessed	Marker can differentiate between varying levels of achievement
1	1, 2, 3	Yes
2	1, 2, 3	Yes
3	1, 2, 3, 4, 5	Yes
4	1, 2, 3	Yes
5	1, 2, 3	Yes
6	1, 2, 3	Yes
7	1, 2, 3	Yes
8	1, 2, 3, 4, 5	Yes

Grade descriptors

Learning Outcome	Pass	Merit	Distinction
Understand the	Demonstrate	Demonstrate robust	Demonstrate highly
various tools and	adequate	understanding of	comprehensive
techniques used for	understanding of	tools and techniques	understanding of
Web Application	tools and		tools and techniques
development	techniques		
Be able to develop	Show adequate	Show sound and	Show innovative and
data-driven	development	appropriate	highly appropriate
websites		development	development
Be able to apply the	Demonstrate	Demonstrate sound	Demonstrate detailed
various tools and	adequate and	and consistently	and highly
techniques used to	appropriate	appropriate	appropriate
build data-driven	application of tools	application of tools	application of tools
websites	and techniques	and techniques	and techniques
Understand the	Demonstrate	Demonstrate robust	Demonstrate highly
functions of web	adequate level of	level of	comprehensive level
services	understanding	understanding	of understanding
Be able to create	Demonstrate ability	Demonstrate ability	Demonstrate ability to
and deploy web	to perform the task	to perform the task	perform the task to
services		consistently well	the highest standard