

CAB230 Web Computing

Project: Implementation of a data-driven website

Date	Change Detail	Version
10/03/2018	Initial version	1.0
04/05/2018	a. Removed requirement for "Date" in registration form b. Add Mobile Ready testing	1.1

Summary	Marks
Section A: Sample Client Side Demonstration (Due Week 7)	/5
Section B: Core Functionality	/20
Section C: User Input Validation	/5
Section D: Security	/5
Section E: Testing	/15
Section F: Design	/10
Section G: Programming Principles	/20
Section H: Database	/5
Section I: Add On #1 Maps	/5
Section J: Add On #2 Metadata and Microdata	/5
Section k: Add On #3 Mobile Ready Design	/5
Total Marks	/100

Note: Marks will be given based on the performance level (ranges from 1 to 7, the higher the better) against each marking criterion. Refer to CAB230 Performance Level Criteria for more details.

Section A: Sample Client Side Demonstration (Due Week 7)	Marks
A.1 Sample Search Form	/1
A.2 Sample Results Page	/1
A.3 Sample Individual Item Page	/1
A.4 Sample User Registration Page	/1
A.5 Validation of different data types (Numeric, Alphabetic Input, Email, Dates)	/1
Marks can be deducted for the following: No CSS (-1 Mark), quality of pages	
Total Section A: Sample Client Side Demonstration	/5

Section B: Core Functionality	Marks
B.1 Search form allows users to search according to: suburb, name, rating and location.	/3
B.2 Search results page implemented showing relevant data in a well-structured, meaningful format with hyperlinks to individual results page	/3
B.3 Individual item page implemented with details for item as well as reviews and ratings in a well-organized format	/3
B.4 Registration page allows users to register and contains a submit button and appropriate form elements of four or more different types and relevant attributes	/3

B.5 Registered user can log in	/1
B.6 User can add a review	/2
B.7 HTML Pages contain a header, footer and menu	/1
B.8 Design is unified with a consistent look and feel	/1
B.9 Web pages achieve layout using <div> elements or HTML5 semantic elements	/1
B.10 Web pages follow Web Content Accessibility Guidelines with text alternatives for images and sufficient contrast display.	/1
B.11 All web pages can operate across multiple resolutions via flexible or centred design	/1
Total Section B: Core Functionality	/20

Section C: User Input Validation	Marks
C.1 Data of different formats, at least numeric, alphabetic, and email formats, is validated correctly	/1
C.2 Validation error messages are shown and give a detailed explanation of the error and how it could be corrected	/1
C.3 Multiple users can not register with the same username	/1
C.4 Users cannot log in if they are not in the database	/1
C.5 In the event of an error the user is re-presented with the input form, pre-filled with all valid data.	/1
Total Section C: User Input Validation	/5

Section D: Security	Marks
D.1 A login page checks whether the password matches username.	/1
D.2 Salted and Hashed passwords are stored in the database (i.e. not in clear text).	/2
D.3 No transactions vulnerable to cross site scripting attack.	/1
D.4 No transactions vulnerable to SQL injection attack.	/1
Total Section D: Security	/5

Section E: Testing	Marks
The report should contain evidence of the following actions. For parts E.1 – E.13 suitable input and output needs to be provided – preferably using screenshots; For each part, the full mark will be given if both input and output is provided and 50% of the full mark will be given if only input or output is given. For part E.14 an appropriate section of code should be provided.	
E.1 Home screen	/1
E.2 Registering as a new user	/1
E.3 Logging in with existing user	/1
E.4 Logging out	/1
E.5 Adding Review	/1
E.6 Searching for an item that exists in the database	/1
E.7 Searching for an item that does not exist in the database	/1
E.8 Individual item page	/1
E.9 A user not being able to register with invalid data including examples of invalid numeric, alphabetic, and email	/1
E.10 Attempts to use a cross site scripting attack that are unsuccessful	/1
E.11 Attempts to use a SQL attack that are unsuccessful	/1
E.12 A user not being able to log in if they are not registered	/1
E.13 Evidence of site operating gracefully in multiple resolutions	/1

E.14 Evidence of Mobile Ready (site accessible from a button on mobile phone)	/1
E.15 An example of a SQL Query that is implemented in code and a description of where this Query is located.	/1
Total Section E: Testing	/15
Section F: Design	Marks
F.1 Report contains a discussion on how the Web Site achieves Web Design Principles of User Experience with example.	/2.5
F.2 Report contains a discussion on how the Web Site achieves Web Design Principles of Visual Design with example.	/2.5
F.3 Report contains a discussion on how the Web Site achieves Web Design Principles of Page Layout with example.	/2.5
F.4 Report contains a discussion on how the Web Site achieves Web Design Principles of Standards with example.	/2.5
Total Section F: Design	/10

Section G: Programming Principles	Marks
G.1 HTML validates with no errors.	/1
G.2 HTML has appropriate titles and basic meta data in all cases	/1
G.3 Use of CSS in all HTML pages.	/4
G.4 CSS validates with no errors.	/1
G.5 All CSS is located in external files.	/1
G.6 All JavaScript is located in external files.	/1
G.7 PHP functions used to generate all repeated input controls.	/1
G.8 PHP pages post back to themselves in all cases.	/1
G.9 Query strings used to pass and receive information between pages in all cases.	/1
G.10 Meaningful names used for every file, function and variable.	/1
G.11 Logical folders used to organize all types of files (e.g. javascript, css, php and more)	/1
G.12 Code is perfectly laid out and easy to read with consistent formatting	/1
G.13 Code contains sufficient comments	/1
G.14 Code has been structured with a number of functions with little or no repeated code	/1
G.15 All user input validated at client side	/1
G.16 All user input validated at sever side	/1
G.17 Database validation performed before every database interaction	/1
Total Section G: Programming Principles	/20

Section H: Database	Marks
I.1 Members table has been created as per specification and can be populated with data or contains data.	/1
I.2 Items table has been created as per specification and contains data.	/1
I.3 Reviews table has been created as per specification and can be populated with data or contains data.	/1
I.4 All tables are related with proper primary and foreign keys.	/1
I.5 There is no redundant information stored in the database (i.e., no repeated information).	/1
Total Section H: Database	/5

Section I: Add On #1 Maps	Marks
H.1 Search results page includes map showing markers for all search results; each marker includes information about the result and a link to individual item page	/2
H.2 Individual item page includes map showing the item	/2
H.3 Examples of both the map on the search screen and individual results screen is included in the testing section of the report.	/1
Total Section I: Add On #1 Maps	/5
Section J: Add On #2 Metadata and Microdata	Marks
I.1 Geographic Microdata is functional	/2
I.2 Microdata is functional	/2
I.3 Examples of the above are in the testing section of the report	/1
Total Section J: Add On #2 Metadata and Microdata	/5
Section K: Add On #3 Mobile Ready Design	Marks
K.1 Uses CSS @media queries for responsive design	/2
K.2 HTML header includes metadata for home screens	/2
K.3 Examples of the above are in the testing section of the report	/1
Total Section K: Add On #3 Mobile Ready Design	/5