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| CAB230 Web Computing |
| Project: Implementation of a data-driven website |

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| **Date** | **Change Detail** | **Version** |
| 10/03/2017 | Initial version | 1.0 |

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| **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 | /10 |
| Section J: Add On #2 Metadata and Microdata | /5 |
| **Total Marks** | **/100** |

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| **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)  1 Week Late (-1 Marks)  2 Weeks Late (-2 Marks)  NB A demonstration that is more than 2 weeks late will receive 0 marks for this  section |  |
| **Total Section A: Sample Client Side Demonstration** | **/5** |

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| **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 tabular 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** |

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| **Section C: User Input Validation** | **Marks** |
| C.1 Data of different formats, at least numeric, alphabetic, email and date 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** |

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| **Section D: Security** | **Marks** |
| D.1 A login page checks whether the password matches username. | /1 |
| D.2 Hashed passwords are stored in the database (i.e. not stored in clear text). | /1 |
| D.3 No transactions vulnerable to cross site scripting attack. | /1.5 |
| D.4 No transactions vulnerable to SQL injection attack. | /1.5 |
| **Total Section D: Security** | **/5** |

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| **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 is 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 a 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, email and date (0.5 mark each) | /2 |
| 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 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** |

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| **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 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 code 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** |

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| **Section H: Database** | **Marks** |
| I.1 Members table has been created as per specification and can be populated with data or contains data. | /2 |
| 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. | /2 |
| **Total Section H: Database** | **/5** |

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| **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 | /4 |
| H.2Individual 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. | /4 |
| **Total Section I: Add On #1 Maps** | **/10** |
| **Section J: Add On #2 Metadata and Microdata** | **Marks** |
| I.1 Geographic Microdata is functional | /1.5 |
| I.2 Microdata is functional | /1.5 |
| I.3 Examples of the above are in the testing section of the report | /2 |
| **Total Section J: Add On #2 Metadata and Microdata** | **/5** |