

CAB230 Data Driven Web Application Development					Unit:	CAB230
Student #1 name:					Student number:	
Student #2 name:					Student number:	
STAGE 1 Client-side Marking Criteria						
Criteria	Performance Level				Score	
	7	6/5	4/3	2/1/0		
Web site core programming tasks design and functionality	Pages contain a header, footer and menu		Pages are missing one of header, footer, menu	Pages are missing more than one of header, footer, menu		
	Flexible or centred page design		Fixed page layout			
	Search form implemented and allows users to search according to three or more criteria; includes Geolocation lookup	Search form implemented but missing one or two search criteria or Geolocation	Search form partially implemented or missing most search criteria	Search form not implemented		
	Sample search results page implemented showing relevant data in a tabular or tile format with hyperlinks to sample results page	Sample search results page implemented in a tabular or tile format but missing hyperlinks	Sample search results page partially implemented or not using tables	Sample search results page not implemented		
	Sample individual item page implemented with details for item as well as sample reviews and ratings in a well-organized format	Sample individual item page implemented but missing some details for item OR not well-organized format	Sample individual item page partial implemented but missing most details, not well organized	Sample individual item page not implemented		
	Registration page contains submit button and appropriate form elements of four or more different types and relevant attributes	Registration page contains submit button and form elements of four or more different types and relevant attributes but some may not be appropriate	Registration page contains submit button and appropriate form elements of at least three different types	Registration page is missing submit button, or contains some form elements, but only one or two types		
	Data of different formats, at least numeric, alphabetic, email and date formats, is validated correctly	Data of different formats, at least numeric, alphabetic, email and date formats, is mostly validated correctly	Data validation of some different formats OR data validation is present but the validation does not execute correctly	Different data formats are not validated - only validates presence of input OR No data validation		
	Validation error messages are shown in-form and give a detailed explanation of the error and how it could be corrected	Some validation error messages are shown in-form and give some indication of the error and how it may be corrected	Data validation errors are reported singly, or only alert boxes are used	No validation error reporting or single error to say input incorrect		
	Design is unified with a consistent look and feel		Look and feel is mostly consistent	Look and feel is not consistent across pages		
	Web pages follow good design principles and guidelines and have a very professional appearance		Web pages follow some design principles and guidelines and some effort has been made to make them look professional	Web pages do not seem to follow most design principles and guidelines		
	Web pages follow Web Content Accessibility Guidelines, including text alternatives for images, sufficient contrast display, and semantic markup		Web pages follow some WCAG but missing one of guidelines listed at left	Web pages ignore several WCAG guidelines and miss 2 or more guidelines at left		
Comments on core programming tasks:					0.00	/7
HTML	HTML5 validates with no errors	HTML5 validates with a single error	HTML5 validates with 2-3 errors	HTML5 validates with many errors		
	HTML has appropriate titles and basic meta data	HTML has appropriate titles and or meta data	No meta data in HTML	No meta data in HTML		
	HTML code perfectly laid out and easy to read with consistent formatting	HTML code is reasonably well laid out but has a few formatting inconsistencies	HTML code is readable but has a number of formatting inconsistencies	HTML is hard to read with no formatting or a large number of formatting inconsistencies		
	HTML code contains a large number of good explanatory comments	HTML code contains some useful comments	HTML code contains a few useful comments	HTML code contains no comments or comments are not useful		
Comments on HTML code:					0.00	/7
CSS	CSS validates with no errors	CSS validates with a single error	CSS validates with 2-3 errors	CSS validates with many errors		
	CSS in external style sheets	CSS in external style sheets	CSS used inline	No CSS		
	Sophisticated use of div or HTML5 elements and CSS to achieve advanced styling effects	Use of div elements and CSS to achieve reasonably advanced styling effects	Absolute positioning used for some div elements to achieve page template	Minimal CSS and/or uses tables or does not use div elements to layout page		
	CSS code perfectly laid out and easy to read with consistent formatting	CSS code is readable but has a few formatting inconsistencies	CSS code is readable but has a number of formatting inconsistencies	CSS is hard to read with no formatting or a large number of formatting inconsistencies		
	CSS code contains a large number of good explanatory comments	CSS code contains some useful comments	CSS code contains a few useful comments	CSS code contains no comments or comments are not useful		
Comments on CSS code:					0.00	/7
JavaScript code	JavaScript in separate file	JavaScript in separate file	JavaScript in HTML file	No JavaScript		
	JavaScript code has been structured with a number of functions with little or no repeated code	JavaScript code has a number of functions but may have some repeated code	JavaScript code has a few functions OR the functions contain a large amount of repeated code	JavaScript code has no structure (just one long function)		
	JavaScript code perfectly laid out and easy to read with consistent formatting	JavaScript code is readable but has a few formatting inconsistencies	JavaScript code is readable but has a number of formatting inconsistencies	JavaScript is has no formatting or a large number of formatting inconsistencies		
	JavaScript code contains a large number of good explanatory comments	JavaScript code contains some useful comments	JavaScript code contains a few useful comments	JavaScript code contains no comments or comments are not useful		
Comments on JavaScript code:					0.00	/7
Add on #1: Maps	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	Search results page includes map showing markers for all search results but markers are not fully functional/informational		Search results page does not include map		

	Individual item page includes map showing the item		Individual item page includes map but is not centred about the item	Individual item page does not include map		
Comments on maps add-on:					0.00	/ 7
Add on #2: Meta-data	HTML header has complete metadata for OpenGraph as well as at least fallbacks to Twitter Cards and Google+	HTML header has complete metadata for one social media service	HTML header has partial metadata for one social media service	HTML header does not include social media metadata		
	Individual item page includes Place microdata for latitude and longitude			Individual item page does not include Place microdata		
	Individual item page includes metadata for both reviews and ratings	Individual item page includes metadata for reviews OR ratings		Individual item page does not include review or rating microdata		
Comments on meta-data add-on:					0.00	/ 7
Add on #3: Mobile design	Uses CSS @media queries to dynamically adjust layout and displayed elements to screen widths as low as 320px without flaws	Uses CSS @media queries to dynamically adjust layout and displayed elements to smaller screen widths with few flaws		No responsive design using CSS @media queries		
	HTML header includes metadata for displaying site well when added to iOS and Android home screens	HTML header includes some metadata for displaying site when added to iOS OR Android home screens		HTML header includes no metadata related to home screens		
Comments on mobile design add-on:					0.00	/ 7
STAGE 2 Server Side Marking Criteria						
Criteria	Performance Level				Score	
	7	6/5	4/3	2/1/0		
User interface design and Consistent look and feel	Clear simple, easy to read PHP files with respect to page layout	Uses CSS and DIVS to achieve most page layout	Uses CSS and DIVS to achieve some page layout	Reasonably consistent look and feel across web site.		
	Completely consistent look and feel	Most include files used to reduce repeated content between pages	Some include files used to reduce repeated content between pages.	Poor use of include files used to reduce repeated content between pages.		
	Professional appearance	Applied most of the user interface design principles	Some attempt at applying user interface design principles	Little attempt at applying user interface design principles		
	Demonstrates all principles of user interface design	Demonstrates many principles of user interface design	Demonstrates some principles of user interface design	Demonstrates few principles of user interface design		
	Add-on tasks from stage 1 carried through to server			Add-on tasks from stage 1 Not carried through to server		
Comments on UI Design Look & Feel code:					0.00	/ 7
HTML Form Processing	PHP pages post back to themselves and have clear, easy to follow data processing logic.	Receive input using \$_POST and \$_GET has been used in most cases	Receive input using \$_POST and \$_GET has been used in some cases	HTML forms submit to PHP pages.		
	Does not assume that all expected \$_POST or \$_GET input fields will always be provided. Query string used to pass and receive information between pages (e.g. ShowItem.php?ID=42) in most cases	Query string used to pass and receive information between pages (e.g. ShowItem.php?ID=42) in most cases	Query string used to pass and receive information between pages (e.g. ShowItem.php?ID=42) in some cases	Query string used to pass and receive information between pages (e.g. ShowItem.php?ID=42) in rare cases		
	File upload and parsing demonstrated currently.			File upload and parsing not implemented.		
Comments on UI Design Look & Feel code:					0.00	/ 7
Server-side Validation	All potential errors are checked on the server-side. Bogus input can't cause it to crash.	Most potential input errors are checked on the server-side.	Some potential input errors are checked on the server-side.	Some attempt at server-side validation		
	Detailed error messages are displayed and associated with specific input fields (via proximity). Throughout all pages	Detailed error messages are displayed and associated with specific input fields (via proximity). On most pages	Detailed error messages are displayed and associated with specific input fields (via proximity). On some pages	Some or no form of error message is sent back to the user if data is invalid		
	In the event of an error the user is re-presented with the input form, pre-fill with submitted data.	Appropriate validation is also performed on the client-side using JavaScript.	Some validation is also performed on the client-side using JavaScript.	Little or no validation is also performed on the client-side using JavaScript.		
Comments on Server-side Validation code:					0.00	/ 7
Database access	All database operations performed exactly as specified	Most database operations performed exactly as specified	Successfully retrieves information from the database – roughly as specified	Some attempt at implementing database access		
	All database access is done via PDO and via prepared statements whenever untrusted data is involved.	Most database access is done via PDO and via prepared statements whenever untrusted data is involved.	Successfully inserts information into the database – roughly as specified	Successfully inserts some information into the database – roughly as specified		
	Database errors are dealt with appropriately.	Most Database errors are dealt with appropriately.	Some Database errors are dealt with appropriately.	Limited or No attempt to handle Database errors appropriately.		
Comments on Database access code:					0.00	/ 7
Security	Passwords are not stored in clear text – hashed securely. A login page which checks whether password matches username.	Passwords are stored in clear text. A login page which checks whether password matches username.	A login page which checks whether password matches username.	Some attempt at implementing security		
	Redirection specifies absolute URL without hard coding the host name	Redirection specifies absolute URL without hard coding the host name. In most cases	Redirection specifies absolute URL without hard coding the host name. In some cases	Unauthorized users are redirected to the login page.		
	Not vulnerable to cross-site scripting or SQL injection attack. By use of html encoding and prepared statements for all transactions	Limited vulnerability to cross-site scripting or SQL injection attack. By use of html encoding and prepared statements for most transactions	Vulnerable to cross-site scripting or SQL injection attack. By use of html encoding and prepared statements for some transactions	Vulnerability to cross-site scripting or SQL injection attack. By not using html encoding and/or prepared statements transactions		

Comments on Security code:					0.00	/ 7
Coding practices	Meaningful names used for every file, function and variable	Meaningful names used for most files, functions and variables.	Meaningful names used for some files, functions and variables.	Some good coding practices demonstrated.		
	PHP functions created for each distinct computational task and grouped with related functions in separate include files.	PHP functions created for each distinct computational task but not grouped with related functions in separate include files	PHP functions created for some distinct computational task but not grouped with related functions in separate include files	Little or no PHP functions created for for some distinct computational task		
	No replicated code or HTML (don't repeat yourself).	Very little code or HTML replication	Replication of code or HTML in some files	Replication of code or HTML in most files		
	Perfect indentation throughout all files	Perfect indentation throughout most files	Perfect use of indentation throughout some files	Inconsistent use of indentation throughout files		
	PHP functions used to generate ALL repeated input controls	At least 3 PHP functions used to generate repeated input controls	At least 2 PHP functions used to generate repeated input controls	No PHP functions used to generate repeated input controls		
	Logical folders used to organize all types of files (e.g. javascript, css, php and more)	Folders used to organize all types of files (e.g. javascript, css , php and more)	Some use of folders used to organize types of files (e.g. javascript, css , php and more)	Limited or no use of folders used to organize files		
Comments on Coding practices code:					0.00	/ 7
				TOTAL MARK	0.00	/ 50%

Teams of 1, 2, 3 persons of CAB230 students must complete 3 add-on tasks.