Web Application Development (COM336) Assignment 2:

Group Assignment: Creation of a database driven e-commerce website

Total Available Marks: 25% of overall course mark for the module

The second item of coursework will consist of the design and implementation of a database driven e-commerce website using PHP and MySQL. The site produced should meet current professional standards of functionality, reliability and presentation. This is a group assignment (typically 4-5 students). Feedback is provided electronically within 3 working weeks of the assignment submission on Blackboard. Submission details, marking scheme and hand back date are as follows;
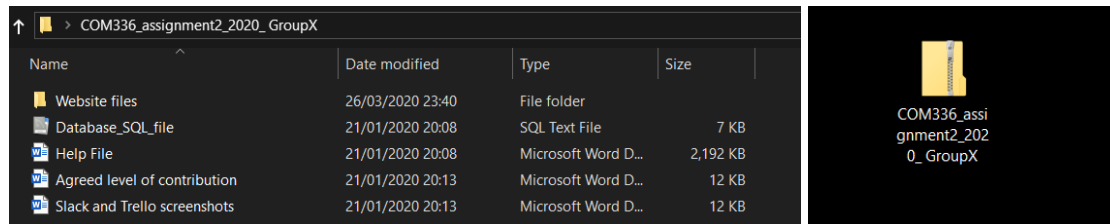
Assignment	Type	Weighting	Week	Date due	Time	Hand back	Submission
2	Group	25%	12	27/04/20	23:00 online	18/05/20	Blackboard

Assignment details

- You are required to develop an e-commerce website using PHP and MySQL. As a group you must select and agree on one of the topics/store types provided below.
- As part of the final submission process you are required to submit a zipped folder in the required format containing all website folders/files, including the MySQL database and the ".sql" file which contains the SQL code used to create and populate your database. The '.sql' file MUST contain the SQL-DDL queries used to create, link and populate the MySQL tables.
- In addition, you MUST include in the root of your submission a Word document (help document) with a description of the key files that make up your site, the required usernames and passwords and location of the MySQL database files. The help document should include a discussion of the current site functionality with related screenshots and functional walkthrough.
- You must use Trello and Slack to record group communication and task planning, allocation and completion throughout the assignment. A document containing snap/screen shots of group activity from Slack/Trello over the complete project duration, clearly showing individual student contributions should be included.
- The final site should have the ability to be run locally on a WAMP site. Instructions on how to do this should be included in the help document.
- The submission should be zipped using the following naming convention, COM336_assignment2_2020_ GroupX (where X is replaced by your individual group number) and uploaded to the Blackboard Learn in the COM336 Assignment Upload area by the deadline specified above.
- The submission must include a peer review element which identifies individual student's contribution to the group assignment. This will be in the form of an agreed level of contribution document.
- No extension to the deadline will be granted unless there are extenuating circumstances, in which case you MUST submit an EC1 form to your course director. The module co-ordinator must be informed before the assignment submission deadline. Plagiarism will be dealt with according to the university policy.

Submission Details

Assignment should be submitted online using Blackboard in the required format. The following folder layout, files and naming conventions are required for Blackboard.

Name	Date modified	Type	Size
↑ 📁 > COM336_assignment2_2020_ GroupX			
📁 Website files	26/03/2020 23:40	File folder	
📄 Database_SQL_file	21/01/2020 20:08	SQL Text File	7 KB
📄 Help File	21/01/2020 20:08	Microsoft Word D...	2,192 KB
📄 Agreed level of contribution	21/01/2020 20:13	Microsoft Word D...	12 KB
📄 Slack and Trello screenshots	21/01/2020 20:13	Microsoft Word D...	12 KB

COM336_assignment2_2020_ GroupX

Deliverables

- e-commerce website developed using PHP and MySQL
- Website files/folders and scripts with sql file
- Help documentation with related screenshots and functional walkthrough
- Document with selection of Slack and Trello screenshots
- Peer review assessment/agreed level of contribution sheet.

E-commerce website topics

- Topic 1: e-commerce enabled bookstore site

Design an e-commerce site that sells Books from a single author. The site should be supported by a database that contains (at a minimum) information about the customers, stock, reviews of the books, and on-line ordering system. A password control system should be implemented to enable the database administrator to manipulate the database.

- Topic 2: e-commerce enabled car dealership site

Design an e-commerce site for a car dealership that works with a single car maker. The site should be supported by a database that contains (at a minimum) information about customers, stock, reviews of the different car models, and on-line ordering system. A password control system should be implemented to enable the database administrator to manipulate the database.

- Topic 3: e-commerce enabled clothes site

Design an e-commerce site for a shop that deals in clothes. The site should be supported by a database that contains (at a minimum) information about the customers, stock, reviews and appraisals of the clothes, and on-line ordering system. A password control system should be implemented to enable the database administrator to manipulate the database.

Assignment 2 Marking Scheme

Group number		
Total 100%	**Possible**	**Actual**
MySQL Database with multiple linked tables. Password provided, SQL code for creating DB provided and runs with no errors, Customer Table, Stock Table, Review/Appraisals, Ordering	30	
Functional website e.g. pages linked, forms used appropriately, data validation, reviews	30	
General website presentation and aesthetics	10	
Help file with description of files, passwords, related screenshots and functional walkthrough	20	
Effective use of Trello/Slack for project development and management	10	
Comments		
Total	100	

Assessment Criteria:
• 0-39% - Little or no presentation of the site or database is available, if available, most of the necessary elements are not implemented. The presentation of the functionality and other necessary aspects of the site offered are not complete or convincing.
• 40-59% - A working presentation must be available for users to view and interact with.
• 60-69% - A complete solution; imaginative, novel, and integrated in its conception. The user is left in no doubt at any stage of what to do next.
• 70+% - A striking departure from the norm which produces a winner application. The presentation must be self-explanatory, requiring no instruction other than the interface. The basis of a commercial product.

Assignment 2 Marking Rubric

Criteria	Level 0 (0%)	Level 1 (20%)	Level 2 (40%)	Level 3 (60%)	Level 4 (80%)	Level 5 (100%)
MySQL Database						
Multiple linked tables. Password provided, SQL code for creating DB provided and runs with no errors, Customer Table, Stock Table, Review or Appraisals, Ordering	No database	Major elements missing. High level of error/ omissions. Tables content not suitably detailed with required elements. Not fully linked or complete.	Some required elements present. Table contents within minimum specification with main required elements partially linked. Minor errors. Some SQL code provided.	Majority of required elements present. Table contents have main elements and linked. No errors. Main SQL code provided.	All required elements present and linked with minor omissions. Detailed SQL code provided.	The database with the required linked tables is complete. It has been successfully tested and is currently bug free. All required elements are present, it runs.
Website functionality						
Pages linked, Forms used appropriately, data validated.	No site	The site has significant glitches, it cannot run fully. Majority of elements and pages are omitted or not linked. No data validation.	The site has some glitches. Majority of elements and pages are present and linked. Little data validation.	The site has minor glitches, Majority of elements and pages are present, and it is largely stable. Some data validation.	The site is marred by minor glitches and bugs, but these are rare, and do not impact negatively on performance or stability.	All pages are linked, Forms used appropriately. Data is validated.
Presentation /aesthetics						
How is the site presented and how does it look aesthetically?	No site	The site does not use an identifiable, consistent and appealing presentation and aesthetic design.	The site has beginnings of consistent visual and aesthetic design, but is inconsistent and unappealing in places.	The site uses a mostly consistent visual design which is occasionally appealing. Aesthetics are appropriate and add to the overall experience.	The site uses a consistent visual presentation and aesthetic feel throughout which is appealing and greatly enhances the overall experience.	The site presentation and aesthetics are consistent and demonstrate an understanding of the overall function and related experience.

Criteria	Level 0 (0%)	Level 1 (20%)	Level 2 (40%)	Level 3 (60%)	Level 4 (80%)	Level 5 (100%)
Help file						
Help file included with description of the key files that make up site, the required usernames/ passwords and location of the MySQL database files are present. Related screenshots and functional walkthrough suitably detailed.	No help file.	Help file poorly organised, lacked coherent structure. Major elements missing.	Some evidence of help file organisation and structure. Some required elements present.	Generally, well organised and coherent help file. Majority of required elements present.	Organised and coherent help file. All required elements present with minor omissions and mistakes.	Detailed help file with extensive overview of site contents describing all folders, folder contents and related files with site passwords with location of MySQL database files with overview of features and functionality.
Use of Slack/Trello						
Is there clear evidence of high quality, meaningful and regular contributions from the team throughout showing impact	No contributions.	Attempts have been made on one platform, but it is of very poor quality.	Irregular contributions with little impact or direction on either platform.	Consistent quality of meaningful and regular contributions throughout across both platforms	High level of quality, meaningful and regular contributions throughout from most team members across both platforms.	Clear evidence of high quality, meaningful and regular contributions throughout from team on both platforms.