

The Hong Kong Polytechnic University
School of Professional Education and Executive Development

SPD4517 Web Application Development and Management
 Semester Two, 2019/2020

Group Project Instructions (subject to changes for online teaching)

Overall requirements

- Implement a health-related website with both frontend and backend.
- The main software components should be PHP, MySQL, HTML, CSS and JavaScript.
- To compete for the client's business in a "road show".

Major Steps:

- 1) Gather and organize information about healthcare and aging. The lecturer of the course will act as the client.
- 2) Demonstrate the prototype to the client.
- 3) Develop the system.
- 4) Demonstrate the completed system to the client.
- 5) Produce necessary documentation. This includes
 - a) Database Design. There should be at least 3 tables.
 - b) User Guide (It should include screen captures and proper "Callouts").
 - c) Comments within the codes.

User Requirements Outline

This is not a comprehensive list.

- A. Provide health information on the website in two sections – open-access and members-only.
- B. Let the user to register as a member.
- C. There should be at least the following web pages in the website.
 - Mission, Who Do We Serve
 - Knowledge Base (Text / Pictures/ Videos / Useful links)
 - A Questionnaire with Explanations or A Game
 - Member Registration/Login
 - Administration (User administration, Reports of user activities)
- D. (Extra credits)
 - Use MVC (Model-View-Controller) for better design and easier maintenance.
 - Update questionnaire or games
 - Allow administrator to download reports in PDF

Prototype Presentation

- This is to help you to prepare early for the formal presentation.
- I will provide useful feedback only if you present concise and specific information.
- Each student in a team must present their team's work. After one group has presented its work, they have to stay behind to watch the next group's presentation. The first two students in a group will provide feedback to the next presenting group. Each student will comment on half of the group. The third student will be the time keeper. **Purpose:** Make students aware of what an observer will look for in a good presentation.
- You are also encouraged to raise questions or suggestions regarding other groups' presentations as part of your class/tutorial participation.

Formal Presentation

- The time limit excludes Q&A.
- You may be required to explain the code and make changes on-the-fly.

Schedule

Task	Dates	Submission
Member names	Lesson 6	By sending me an e-mail with student names and student IDs (4 students per group)
Prototype Presentation (30%)	Lesson 9	<u>Max 2 minutes per student</u> <ul style="list-style-type: none">• Soft Copy: Site Map, Screen Captures, Database Design to lecturer before the presentation• Submit via Moodle on presentation day<ul style="list-style-type: none">○ File name: Group Number_Prototype_Student_Name○ E.g. Group1_Prototype_CHAN_Tai_Man_John
Formal Presentation (40%)	Lecture 12, Lecture 13	<u>Max. 4 minutes per student</u>
Documentation (20%)	Lesson 13	<ul style="list-style-type: none">• Soft Copy: Submit via Moodle by 11pm (Documentations + Source Code + Database)<ul style="list-style-type: none">○ File name: Group Number_Forma_Student_Name○ E.g. G1_Forma_CHAN_Tai_Man_John
Peer Evaluation Form (10%)	Lesson 13	The form is on the last page of this document. <ul style="list-style-type: none">• Soft Copy: Submit via Moodle

Documentation

- There is no word limit.
- User Guide
 - o Include references to show
 - the source(s) of the health information, questionnaire
 - the website(s) that your team referred to when creating your own website
- Developer Guide
 - o What languages and frameworks are used, if any, plus the link to get the framework
 - o Database structure
 - o Explanation of the project folder structure and the use of each folder
- The report should be concise and free of grammatical and spelling errors.
- Font: Times New Roman, Size: 12 point, Line spacing: 1.5
- Try to fit tables, diagrams, screen captures in the main body. If the tables and figures do not conveniently fit inside the main body or they only provide supplementary details, put them in the appendix.
- Title page contains the student full names, numbers.
- Each page must be numbered at the bottom center.
- Video
 - o Use screen recording & video editing software such as Camtasia to create videos demonstrate the typical functions and error checking
 - o The video can be used in case the hosting service is not available on presentation day.

Notes

1. *Use the reference list and appendix to provide additional relevant information.*
2. *Late submission is liable to a penalty of 10% of the maximum marks for every calendar day late.*
3. *In the presentation session, each student should present for about the same duration. Make an effective presentation by keeping good eye-contact with the audience (not just the lecturer), by pronouncing correctly, and by rehearsing a few times with your teammates.*
4. *Avoid relying on connection to the Internet during your presentation. Most functions and features should be mentioned in slides or demonstrated locally on the local computer.*
5. *The hardcopy, if any, and softcopy are non-returnable and you should have your own copy in case you are required to submit an extra copy.*
6. *Your materials may be used as examples to show to other students or for improvements by the teacher.*
7. *Show your application of theories to the case by using suitable keywords from the handouts and text/reference books. You should paraphrase the notes and put them in the context of the Topic.*

Group Project Peer Evaluation Form

Purpose: This form is to solicit your recommendation for the allocation of individual marks for the all members in your group, including yourself. The purpose is to encourage the members to cooperate throughout the project. The information in this form will not be disclosed to other students.

Content: If each group member is considered to have contributed equally, then '100' should be entered against each name. It is possible to enter a number bigger than 100 for certain group member(s), if they perform much better than the others. However, the total number of points should be equal to, or less than $n \times 100$, where n = number of group members in the group. For example, for a group of 4 students, the total should be 400 or less.

Submission: Each group member should submit one peer-evaluation report (this page) individually via Moodle confidentially.

Subject line of e-mail: Group Number Name, Marks for member 1, Marks for member 2, ...(in alphabetical order)

Example: Group 1, 80 (myself), 75, 120, 100

My Name: Chan Tai Man

Group member (in alphabetical order)	Mark	Justification for Mark
Chan Tai Man (myself)	80	I didn't have effective time management. I missed most of the labs and didn't have the skills to implement the e-commerce. I didn't spend quality time with my group mates to help improve the team's output.
Lee Siu Ming	75	He made reasonable contribution, but participated in meetings passively. He could have been better prepared for the meetings.
Sung Wong Lee	120	She is responsible for overall coordination, proof reading and editing. Good leadership.
Yee Lee Man	125	She is cooperative, punctual and well-prepare for every meeting. She learns new things quickly and is willing to share her knowledge.

Total 400 (should not exceed $n \times 100$, where n = number of members)
In this case, $n = 4$. So the total should not exceed 4×100 .