**PART 1: SIM3150 Lab Individual Assignment (15%)**

**Design & Develop a Personal Website**

**Duration: Week 1 till week 4**

**For the first part of your practical assignment, you need to design and develop a website for yourself.**

Make your personal website as a medium to introduce and promote yourself to others including UPM community, family and friends. You are free to design and develop the website based on your individual needs. Provide a personal website that you can use it later on to create your networking among people that are important to you.

**You can decide whatever relevant information that you want to share about yourself to the public. Determine your own requirements to produce an attractive, creative and useful website.**

Here are the must features for your Personal Website:

* 1. Introduction page: About your website & yourself.
  2. Attractive page: How do you want to be linked up with others?
  3. Sharing page: Explain your hobby with e-learning concept.
  4. Extra page: Any other relevant page e.g. benefits of your page, contact etc.

**You need to deliver your design (softcopy/hardcopy) to the lecturer on the 2nd week and present the personal website (softcopy) to the lecturer during your lab session on the 4th week.**

**PART 2: SIM3150 Lab Group Project Assignment (25%)**

**Design & Develop an E-commerce Application**

**Duration: Week 5 till week 14**

**For the second part of your practical assignment, you need to design and develop an e-commerce web application for your group to sell your own products to your targeted market segment.**

Design & Develop an E-commerce Application:

* 1. Combining your personal website as a group website.
  2. Turning your hobby into a serious business through e-commerce.
  3. Including extra pages.

The purposes of the web application as in the following:

1. To let the public and potential customers to communicate to your company.
2. To include commercial activity e.g. selling and buying online.
3. To assist you in exchanging and sharing their information and knowledge.
4. To assist users in understanding and educate them about something e.g. information, product, service, etc.

**Section A:**

**You need to design and develop the web application comprises of these functional requirements:**

1. Your group can run your e-commerce by uploading e-catalogues that consist of products’ pictures, price and description.
2. Public can select items to buy and make payment to the merchant’s account.
3. Allow other users to contact the company through message board, email, etc.
4. The company can give further services e.g. customer service after sale and so forth.

Analyze the requirements and use your creativity to produce an attractive, creative and useful web application. Practice your programming skill by using HTML/XHTML, CSS, JavaScript and PHP.

**You need to deliver your design (softcopy/hardcopy) to the lecturer and present the e-commerce application (softcopy) to the lecturer during your lab session on the 6th week.**

**Section B:**

**Apply the following basic functions to your web sites with your client side scripting knowledge such as Java Script or Ajax.**

1. Clocks
2. Mouse Trailers
3. Drop down menus
4. Alert Messages
5. Pop Up windows
6. Combo box
7. Dialog box
8. Submit button
9. Form validation
10. Print function

**You need to present the personal website (softcopy) to the demo during your lab session on the 8th week.**

**Section C:**

**Add the following to the previous functional requirements:**

1. Authentication and authorization process through log in that include registration for the first time user.
2. Allow other users to contact your company through message board, email, etc.

**You need to write scripting for server side in group:**

1. Your company should be able to communicate to others dynamically through message board or similar medium.
2. The company could receive order from the clients and update their status.

You can apply any type of server side scripting languages such as PHP to connect to the web server such as XAMPP. that has been already installed in the lab.

**You need to present the personal website (softcopy) to the lecturer during your lab session on the 11th week.**

**Section D:**

**You need to develop, connect and access your database in group:**

1. Create a database table with Product ID, Product Name, Price and Description as fields. Insert at least 5 records into the table.
2. You need to create a PHP scripting for accessing the table to:
3. Access and display the whole table, sort the list by Product ID in ascending order
4. Display Product ID with the Product Name.
5. Display Product ID with description of the Product Name.

**You need to present the personal website (softcopy) to the lecturer during your lab session on the 14th week.**

**NOTE:**

**You need to submit all of the assignments including part 1 & 2 on a CD to the lecturer on week 14!**