HONG KONG INSTITUTE OF VOCATIONAL EDUCATION

Project: E-commerce website

**This Project contributes 30% of Total CA Marks.**

You may use HTML5, CSS, javascript and jQuery to complete this project. Submit the completed project folders and documentation files on or before 5 Dec 2015.

**Aims and Objectives**

The aims and objectives are:

* To gain experience in designing website using the learned HCI knowledge.
* To learn the basics of HTML5, CSS, javascript and jQuery programming.
* To gain experience in developing User-centered webpages using HTML5, CSS, javascript and jQuery.
* To gain experience in using different GUI techniques to develop a user-friendly e-commerce web system for the e-business.

**Introduction**

This is a group project and should be done in teams of 3-4 students. On the project cover sheet you must state the contribution of each member using the format below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Student ID** | **Name** | **Contribution** | **Signature** |
| 131234567 | Chan Tai Man | 33.3% |  |
| 135678901 | Wong Tai Sin | 33.3% |  |
| 131234569 | Lee Tai Kan | 33.3% |  |

**Task Description**

**Electronic commerce**, commonly known as **e-commerce**, is a type of industry where the buying and selling of products or services is conducted over electronic systems such as the [World Wide Web](http://en.wikipedia.org/wiki/World_Wide_Web).

Now, a local company named ***BestTrip Travel Agency*** is going to build a website for its members to book air-tickets and hotels through internet. In the website, customers may specify their preferred Airlines, time schedule or class(es) for booking their flights. After selecting the flights, customers have to complete the payment on-line.

Similarly, customers may book their preferred hotels through the website as well.

Your website should provide functions for the public users listed below:

* register / login as a member
* view and search flights information
* flights booking and payment
* view and search hotel information
* hotel booking and payment

After registered as a member, user can login to book their flights/hotel and complete the payment.

Your group is to develop a website for the company. Before you start your work, perform User Analysis to find out the characteristics of your potential customers. Then, design a website which best suit their requirements. In addition, try to add animation to each function so to make them look more interesting and attractive to the users. Data validation is required wherever necessary.

***\* Database design/implementation will not be included in the marking scheme. You may use JSON files or “hardcode” some data for demonstration purpose.***

**System Documentation**

1. **User Analysis**

You should ***identify the users*** of your system and then start the User Analysis process. In your document, you should include the following areas of research:

* User Characteristics
* Techniques for observing and listening to users
* Environment Analysis
* Recruiting Users
* Task Analysis (HTA)

1. **Web Design Concepts**

In the second part of the documentation, you should describe how you employ the web design concepts learned in the module and then implement them in your project.

In the document, you may capture relevant screen layouts for illustration. You should describe the Design Principles similar to the following table:

|  |  |
| --- | --- |
| Design Principles | Description |
| Mental Model |  |
| Affordance |  |
| Content Organization |  |
| Visual Organization |  |
| Navigation |  |

**Submission**

Each group should submit the followings:

* A hardcopy contains the System Documentation.
* Upload your files (both programs and documentation) to Moodle.

Deduction

No hardcopy for documentation -10%

Deadline:

5 Dec 2015

Class: Group: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Project Mark Sheet**

**1. View/Search flights information (15%)**

Functionality and animation 8% \_\_\_\_\_\_\_\_\_

Web Design 7% \_\_\_\_\_\_\_\_\_

**2. Flights booking & Payment (15%)**

Functionality and animation 8% \_\_\_\_\_\_\_\_\_

Web Design 7% \_\_\_\_\_\_\_\_\_

**3. View/Search hotels information (15%)**

Functionality and animation 8% \_\_\_\_\_\_\_\_\_

Web Design 7% \_\_\_\_\_\_\_\_\_

**4. Hotel booking & Payment (15%)**

Functionality and animation 8% \_\_\_\_\_\_\_\_\_

Web Design 7% \_\_\_\_\_\_\_\_\_

**5. Member Registration/Login (10%)**

Functionality and animation 5% \_\_\_\_\_\_\_\_\_

Web Design 5% \_\_\_\_\_\_\_\_\_

**6. Presentation (10%)**  \_\_\_\_\_\_\_\_\_

**7. System Documentation (20%)**

A. User Analysis 10% \_\_\_\_\_\_\_\_\_

B. Web Design Concepts 10% \_\_\_\_\_\_\_\_\_

**Total** : \_\_\_\_\_\_\_\_\_