GROUP WORK IN LARGE SCALE SOFTWARE DEVELOPMENT	Course Code: **SWE6140**	Contribution: **60% of course**	Release Date: **10/10/2016**

Coursework Submission Requirements

• An electronic copy of your work for this coursework should be fully uploaded by midnight (local time) on the Deadline Date.

• The last version you upload will be the one that is marked.

• For this coursework you must submit a single Acrobat PDF document. In general, any text in the document must not be an image (ie must not scanned) and would normally be generated from other documents (eg MS Office 2007 using "Save As .. PDF").

• For this coursework you must also upload a single ZIP file containing supporting evidence.

• There are limits on the file size.

• Make sure that any files you upload are virus-free and not protected by a password otherwise they will be treated as null submissions.

Detailed Specification

The coursework is to be completed individually. The deliverables follow.

Scenario

a) IMPORTANT

Computer Science students must produce an interface using an acceptable language, such as Java. Please check your choice of implementation language is acceptable BEFORE you produce your interface.

FlyUSIU is a small airline catering for domestic flights to and from City airports and Mombasa, Kisumu, Nyeri and Eldoret. It makes one return flight to each of these destinations daily. FlyUSIU's aircraft can carry a maximum of 40 passengers each. You are required to produce a website or interface for FlyUSIU, applying all considerations as discussed.

The website or interface should enable some functionality, i.e. for customers to gain access to information on flights and seat availability, and to make bookings either directly via the website or a telephone operator (for the interface). The emphasis will however be on the usability.

Programming Deliverables

The site or interface must take all the HCI and ID issues discussed in HCI AND ID courses. Make sure your site has a home page from which all the other pages can be easily accessed. Your programming deliverables

as a zip file and your report in pdf format should be uploaded by midnight on the deadline date specified above.

Rules

Students who choose not to attend demonstrations will fail their coursework.

Justify the use of cookies or sessions if used, for any of these tasks

For interfaces:

Interfaces are to be developed only using languages (and versions) such as Java, with appropriate database tools.

Written Deliverables

Evidence of research and work done to address HCI and ID issues: the evaluation of existing, as well as your new site/interface, consideration of perceptive (e.g. colour) and cognitive factors (such as memory), requirements gathering, analysis (including task analysis) and design of new site/interface. (30%)

Screen shots of web/interface pages or screens and written commentary of HCI and ID issues addressed, e.g. perception, task analysis etc. (35%)

A scenario and a diagram showing the navigation between different pages/screens. (5%)

A full account and discussion of what modifications would be required for your website/interface to be W3C compliant. Firstly stating what W3C is. (10%)

Any joint work must be identified, including the contribution of each group member. The weekly submissions are the only accepted group component of the coursework. (20%)

Grading Criteria

Assessment will include a demonstration. Students will be notified of their appointment times for assessment in lectures. The demonstration will be conducted in the in the lab (students will be notified in advance).

Marks are awarded as a rounded percentage of the mark for each deliverable:

0-29 F Failure to demonstrate any significant understanding or knowledge of the subject. Major errors.

30-39 E Demonstrates some basic knowledge, shows some understanding.
40-49 D Adequate knowledge/understanding of the fundamentals.
50-59 C Good knowledge/understanding of the subject matter.
60-69 B Very good knowledge/understanding of the subject. Shows some ability for synthesis.
70-100 A Excellent knowledge of the subject. Demonstrates clear understanding and synthesis of material.

A-B

To obtain these grades students must demonstrate an understanding of the HCI and ID issues and techniques covered in the lectures and tutorials. Tasks should be bug-free. The aid/web/interface design should be user-friendly and robust.
The student will have grappled successfully with the problems of implementing web pages/interfaces and display best practice in HCI and ID techniques used to build the site/interface for the user requirements identified.

B-C

The finer features of the above will be absent, but the core HCI skills will still be evident. Code will perhaps have one or two bugs and show a more cursory understanding of HCI and ID concepts. Part implementation only.

Below C

Grades below C will result from the following:
Buggy code, lack of effort, poor usability, little or no attempt at the more demanding HCI and ID tasks, failure to include user id anywhere on the report.

Assessment Criteria

For marks breakdown, please see Written Deliverables section above.