**HCI Assignment (DT228/2)**

**Part 1 (Week 8 - 9)**

This assignment should be done using the topic that you have chosen to represent your group. (Chosen as a group.) There are four required components to this project: Project Report (due last), Low Fidelity Prototype, Medium Fidelity Prototype and Presentation, produced over the three weeks.

1. **PROJECT REPORT**

The project report is due in Week 12, but start on it now and use your weekly submissions as the basis of it, to help you. IE You do not have to write a whole new report after the 3 parts (as below). The report should be structured as a business report. (Sample template will be provided).

* The project report will answer all questions given throughout the 3 weeks.
* It will also hold photographs and/or screenshots of your prototypes.
* Finally, an individual evaluation (1-2 pages) will be submitted separately:
  + Evaluate team performance – teamwork, effectiveness, communication
  + Self-evaluation - how did you do?
  + Peer-evaluation - how did your team mates do?

1. **LOW FIDELITY PROTOTYPES**

Photographs and/or screenshots of the low fidelity prototypes should be held in the project report. The low fidelity prototype should be submitted separately, but use the content for the full report if you wish.

1. **MEDIUM FIDELITY PROTOTYPE**

Screenshots of the medium fidelity prototypes should be held in the project report. The medium fidelity prototype should also be submitted separately. Use the content for the full report if you wish.

1. **PRESENTATION**

The presentation is a demo – at a PC in your lab, on the day. It should be in PowerPoint format. It should briefly describe the project and contain no more than 8 slides:

* + General overview of system
  + System requirements
  + User group, interaction style, input/output devices
  + Discussion of low fidelity prototype
  + Evaluation of low fidelity prototype
  + Discussion of medium fidelity prototype
  + Evaluation of medium fidelity prototype
  + Discussion of roles taken by team members

**What do I need to submit?**

In Week 12:

1. Project Report
2. Presentation
3. Medium Fidelity Prototype
4. Individual evaluations in a separate submission

**How do I submit?**

**Weekly Submission**

This is a three-week assignment. New questions related to the project will be given out in the HCI Lab each week – as the Week 1 questions below. To monitor progress you will **submit** your answers to each week’s questions **in Webcourses** before the next set of lectures and labs.

**One** member of each group should submit the answers to Week 1 questions on behalf of the group in a

Word document titled *Group N CA2 Week 1 Answers*. (N = group number).

Week 1 questions are due to be submitted by **6pm Wednesday 21th March 2018.**

**Final Submission**

1. You will submit through WebCourses – look for the link in the “Continuous Assessment 2 - GROUP PROJECT (Week 9 - Week 12)” area. Your individual evaluations will be submitted through a separate submission link on WebCourses.
2. Submission of complete assignment (full project report) is by **6pm Wednesday 25th April 2018**.

**\*\* Projects will be presented in the HCI labs of that week.**

**A note about collaborative working**

You are working in groups. It is highly recommended that you set up a central repository for working as a group so that all of your documents, comments, rough work etc., are stored on-line and easily available to all your group members for collaborative working throughout the three weeks. Suggest using DropBox, GoogleDrive, etc.

**Week 1 Questions**

1. Identify a specific interface, which requires some improvement. You must conduct research into the interface, and then redesign the chosen interface with your knowledge. Outline when, how and why this interface is used.
2. What methods are you going to use to gain more knowledge of this type of system – internet research, use of similar systems, interviews, journal articles …?
3. What *process* or *life-cycle* is the most suitable for the redevelopment of your system? Why is this one more suitable than others? How is usability factored into the process?
4. Discuss the different types of requirements that are **currently** in this system. Through what methods have you identified these? Draw a use-case diagram for your system.
5. What user group(s) is your choice of interface focused on?
6. What changes have you decided to make? Use at least one interaction model (7 Stages of Action/Keystroke Level Model/…) and one set of principles/guidelines to analyse the **current** interface.
7. Create a **brief** initial low fidelity prototype to be used for product conceptualisation. (You can do this with pen and paper, then photograph it with a phone, paste it into a document for your (first) submission – the brief answers to these questions. Keep a copy for the Report.)