CS235 Assignment 3: User Evaluation and Feature Addition: Individual Work

March 8, 2018

Number of Credits: 45% of the 15 credit module.
Submission Deadline: Friday 11th May 2018 via Blackboard.
Learning Outcome: To gain experience of collecting user feedback and implementing user feature requests.

1 Problem Statement and Overview

In this assignment, you will be performing a round of user research, analysing feedback and implementing new features on the Artatawe system. At this stage of your development, your prototype is of a sufficient level that you now are required to gather feedback from potential users of the system.

For this assignment, you need to:

- Plan a round of user research (including ethics, consent and procedure)

- Conduct a round of user research with 3-5 participants

- Analyse feedback and determine new features to implement

- Implement proposed features

A key aim of your user research is to elicit potential new features from the users. What would potential users like to see in the system that isn't already there? You should design your study in such a way that you both test the functionality of the prototype and explore extensions to the system.

You should avoid including anyone who has experience of the Artatawe system in your research.

2 Assignment Tasks

This section describes which files need to be submitted for the assignment and how they are submitted.

You are required to create a folder named *"SN-A3"* where *"SN"* is replaced by your student number. This folder will contain all files and folders that you submit (see below). Once this folder is ready, zip it up to create a file named *"SN-A3.zip"* and submit this single file to Blackboard.

2.1 User Feedback Study Plan

20% of A3. Design a study that will allow a novice user of the Artatawe application to provide feedback and suggest potential extensions to Artatawe. Your study plan should define the following:

1. The instructions given to your participants in terms of what the study is for, the procedure, and their ethical rights;

2. A plan for capturing any important information prior to the study (such as demographics, previous experience, etc);

3. A task for the study participants to complete;

4. Your plans for capturing any observations while the participant is completing the task, which may include both qualitative and quantitative data;

5. How you will question the participant at the end of the task.

This information should all be combined into a single file named *"research-plan.pdf"* that should be placed directly within your *"SN-A3"* folder.

2.2 User Feedback and Feature Selection

20% of A3. Conduct a study with 3-5 participants based on your study plan. You are then required to provide a report that outlines the findings from your study. Include here the main observations you made during the study, as well as an analysis of any qualitative or quantitative you collected.

In your study plan, you should have included questions to prompt a user to think of potential extensions and features to the system. In this report you should discuss the features proposed and make a selection of **two** features to add to the system. This analysis should be based on the suitability to be included into the system, your timescale for completion and your own ability to tackle the features.

These features should be significant in that they add new functionality into the system (e.g. a simple tool that simply extends an existing feature is not sufficient). When marking the new features, a *richness factor* (see Section 2.1.3) will be applied to your implementation. For example, a simple feature that adds little functionality will receive a low richness factor score.

In the event that no suitable features are suggested by you participants, you are encouraged to propose your own ideas for possible extensions to the system. Note: You are still expected to adhere to the feedback participants provide, you **should not** ignore their ideas.

Queries about functionality suitability should be posted onto the module Slack channel.

This information should all be combined into a single file named *"research-findings.pdf"* that should be placed directly within your *"SN-A3"* folder.

2.3 Implementation Source Code

40% of A3. The mark for implementation will be calculated as the product of a base mark and a richness factor. For example, if your chosen features are very basic then this will attract a low richness factor, say 0.6. If you now scored a base mark of 30 (out of 40), then the mark would be (30 / 40) * 0.6 * 40 = 18. If your features are more complex then this will attract a richness factor of 1.0 resulting in an overall mark that would be (30 / 40) * 1.0 * 40 = 30.

Your application source code (the .java files you wrote) is to be submitted. The source files should be placed within a folder named *"source"* within your *"SN-A3"* folder. Please also include within the "source" folder a a README file (named *"README.txt"* with basic instructions on how to compile and run your code.

The main method must be in a class named *"Main.java"*. This class should contain no other method.

Your code must follow the coding conventions from CS-230 Lecture 13 (Coding Conventions). You must also comment your methods appropriately using normal Java comments (this is in addition to Javadoc). If your code is written well (and is self documenting) then you may need only a few normal (i.e., non-Javadoc) Java comments.

2.4   Documentation

10% of A3. Your application should be fully documented with Javadoc as per the coding conventions in CS-230 Lecture 13 (Coding Conventions). Please also see CS-230 Lecture 15 (Javadoc).

A copy of the website produced by Javadoc (all files produced) must be included in a folder named *"doc"* within your *"SN-A3" folder*.

2.5   Demo via Screen Capture

10% of A3. You must create a video that demonstrates the features of your application. You could use screen capturing software to do this. The audio or subtitles should clearly explain what is happening in the video.

The video file(s) should be named according to the feature that is being demonstrated. The video files are to be saved in MPEG or MP4 format. You may use as many video files as necessary to demonstrate the features of your application.

One video that captures all the features is ideal. Your videos should be placed in a folder named *"demo"* within your *"SN-A3"* folder

3   Summary of What to Submit and How to Submit it

When completing the submission of the assignment, files in your zip follow the following structure:

```
SN-A3/
    demo/
    doc/
    source/
    research-plan.pdf
    research-findings.pdf
```

All the files and folders are zipped together in a single zip file and are submitted to Blackboard with the name *"SN-A3.zip"* where "SN" is replaced by your group number. Marks will be deducted for those submissions that do not follow the file naming conventions and required file formats.