**Milestone 2: Data Analysis, Data Modeling and Prototyping, Evaluation**

**Due: Sunday Nov. 20 at 11:00pm**

**Project Description**

* Your project theme this term will be to evaluate the currently used applications of Collaborative Ultra and Teams for the delivery of online classes
* Your goal is to improve the online application features that support tasks, etc.
* Milestone 1 focused on the understanding the user and what they do and how they use the online applications.
* Milestone 2 involves:
  + Analyzing the data (affinity diagramming) and reporting on the results
  + Modeling the data using personas and task development (scenarios and use-cases)
  + Brainstorming design ideas based on the data analysis to model and create a low-fidelity prototype with new or improved features
  + Evaluate the prototype with a cognitive walkthrough

The main template will be 4-5 pages in length. The milestone will include many appendices (i.e., more pages). The main template is divided into the following sections:

Group Information (.5 page)

* Date
* Group Name
* Group members

Study Summary and Data Analysis (~2 pages)

* Study Purpose and Objectives: What was the purpose and objectives of your first study. You can copy this from Milestone 1 – or make slight changes from Milestone 1 (~.5 page)
* Data Analysis (~1.5pages):
  + Analysis Process: describe the process you took in doing the affinity diagram that will be used to analyze your data collected (you can use an image of your affinity diagram)
  + Data Analysis/Results: what you found (e.g., describe the categories/themes that you came up with the affinity diagram and include some examples for each category as quotes or direct observations) and how does the results meet/answer your study objectives
  + Suggested features: based on your findings what are the main features/suggestions that you think should be added to your current online collaborative application (justify each feature with the findings).
  + *Features to Prototype: Choose 3-4 features that you have decided to prototype with a short justification as to why you are focusing on each of these.*

Data Modeling and Prototype Description (~1.5-2 pages)

For Data Modeling you will use the given Persona (Abby) who will represent your main user of the system (a Dalhousie PhD Student). You will decide on 3 features (from the data analysis, that you want to focus on for this project) and create a set of tasks and scenarios around these features and respective use cases.

1. Give a short description of the persona (2-3 sentences) and attach the persona in your appendices (the persona is provided for you).
2. Identify and describe several tasks that your users could do when using your system with all the potential features you identified in your results (name them with a short description. Can be in point form) (~.5 pages)
3. Decide on 3 features that you want to prototype and evaluate and list them. For these features, create tasks, motivation scenario, and use-cases (include both normal and alternative cases for each use-cases). Then for each task, while using the use-case (normal case only), illustrate the **low-fidelity prototype** – use the appendix template attached for each use case and add them to your appendices.
4. The Prototype Description should explain the prototype and include a few images that demonstrates the features, how the prototype was developed (and which tool used). It should detail the design aspects of the prototype, and how your group considered the perspective of the users, and type of device and tasks in the design. ~1 page

Cognitive Walkthrough Description (~.5 page)

List the cognitive walkthroughs for each of the use-cases you created (point form). Then make sure you add all the cognitive walkthrough sheets (use the attached template) in the appendices.

Appendices

* Appendix A: Persona (provided)
* Appendix B: Task, Scenario, Use Cases and Prototype for 3 tasks (use the template and each task should start on a new page)
  + On the template, add the task name, a short scenario (2-3 sentences that describe what your user is going to do), and then the Normal and Alternative Steps.
  + For each use case, include the images of the screens of your prototype.
* Appendix C: Cognitive Walkthrough sheets (there should be sheets for each task that you have a use-case – the number per use-case will depend on the number of user steps)
  + There is an example of what these should look like that uses the use-case example
* Appendix D: Group breakdown of work in your submission (attach as appendix to end of the report on a new page). It is assumed that each group member sees the final report with this breakdown of work before it is submitted. See the attached template for this.

You only need to submit one copy of this assignment BUT make sure that you have someone submit it by the deadline as no late submissions are accepted!

**Note:**

Your labs will help contribute to this submission (class/Lab7 – affinity diagram, class/Lab8 – Prototype creation/CW sheets) and you will need to work in your groups outside the lab time to get this milestone ready (i.e, over the reading week in November).

Submit the **complete** version of the assignment (all parts and all appendices)