Milestone #1: Problem statement, literature review, and task description
CS325 - Fall 2021

This document describes the process of preparing and submitting the first deliverable of your team projects.

Deadline:
1. Presentation - October 12, 2021 11:59 P.M. EDT.
2. Report - October 19, 2021 11:59 P.M. EDT.

Platform: One member of each team needs to submit this report on Gradescope. **Make sure you add all group members during submission.**

File Format: LaTeX PDF. Latex is a high-quality typesetting system that is extremely useful for technical and scientific writing. It is highly regarded as one of the essential skills to have if you are involved in any formal or academic writing.

There are various ways to write a document in LaTeX. We highly recommend using **Overleaf (https://www.overleaf.com/)** as it is a well-documented free platform-independent collaborative writing environment, perfect for group projects.

For the deliverables, we will use the **CHI double-column conference format**. If you are using overleaf, click the following link, and then click Open as Template (https://www.overleaf.com/latex/templates/acm-conference-proceedings-master-template/pnrfvrr dbfwt). Select the **simple-sigconf.tex** file from the sidebar. Use this file to write your deliverables reports.

Page Format: Maximum 4 pages + 1 page for reference. You do not have to fill up all 4 pages with contents and 1 full page with reference. **Your goal for deliverables should be to clearly convey your ideas, methods, and results.** If you manage that using fewer pages, it's perfectly fine.

Structure:

1. **[10 points] Problem Statement (About 1 page):** The problem statement is where you should clearly provide answers to the following questions:
   a. What is the problem that your team is trying to solve?
   b. Why do you think this problem needs solving?
   c. Why do you, as a group, want to solve this problem?

2. **[10 points] Literature Review (About 1 page):** This is the section where you should mention and explain the current state of the art - what has been done to solve this problem, what are the existing solutions, what are their shortcomings, and what gaps

remain. A good place to start searching for academic literature on the topic would be Google Scholar (https://scholar.google.com/). We recommend watching this short video on how to conduct a literature review before beginning: https://www.youtube.com/watch?v=zIYC6zG265E. You can also refer to credible blog posts or other reliable sources.

3. **[20 points] Personas & Tasks (About 2 pages):** In this section, you have to provide specifics about your project by doing the following:

   a. Personas: **Create 2 user personas for your specific problem**. To learn more about personas and how to create them, refer to Lecture 7 (L7). To create your persona, you can use a tool like Microsoft PowerPoint or Adobe Illustrator. You can also use one of the several free online persona generators. Of those, we recommend using uxpressia (https://uxpressia.com/personas-online-tool) or xtensio (https://xtensio.com/user-persona/). However, these free sites will let you create a limited number of personas for free. **Provide your personas in the report as pictures and write one paragraph for each persona to explain them.**

   b. Task examples: **Provide at least 3 different task examples** based on the user personas you have created in the previous question. A task example is a complete task that one of your personas perform or want to perform that your system should support. **Remember, task examples are system-independent.** To learn more about task examples, refer to Lecture 7 (L7) AND Lecture 8 (L8). Use separate paragraphs to clearly explain three different task examples. The tasks should be significantly different from each other.