

CPSC 1301K We Solve It! Project Reflection Spring 2023

You will work on this assignment individually and with your We Solve It! Project group.

Purpose

The purpose of this assignment is to report and reflect on your project as a group and as individuals. Reflections is a key component of the learning process as it gives you time to assess your final product and learn from your experience. In addition, evaluation is an essential part of the design process which will be a valuable skill throughout your time in school as well as in your future professional career.

Task

In this assignment, you will create a presentation for your project as well as write a brief report about your experience.

- 1) **As a team**, create an outline for your presentation. This can be in the form of PowerPoint slides, as a storyboard, etc. Your presentation needs to include the following:
 - a. The problem you selected and why you chose it
 - b. The technical solutions (algorithms) you considered (do NOT show code)
 - c. The pros and cons of each proposed solution
 - d. Compelling case for why you selected your solution (over the others)
 - e. A description of the algorithm you designed (do NOT show code), discuss the algorithm in general terms
 - f. A demonstration of running your code (again, do NOT show the actual code). Talk the viewers through your program as it runs.
- 2) **As a team**, create a presentation (5-7 minutes) explaining your problem selection, solution design, and a demonstration of your program. Your team can either 1) present your presentation during the final exam time or 2) they can record the presentation (and we'll watch it during the final exam time). Free screen-capturing options include:
 - a. Video conference software (for example, Zoom, Google Meet, etc.).
 - b. <https://www.ispringsolutions.com/ispring-free-cam> (free)
 - c. <https://www.ezvid.com/download> (free)
 - d. <https://www.techsmith.com/video-editor.html> (free 30 day trial)
 - e. <https://www.flashbackrecorder.com/> (free 30 day trial)
- 3) **Each member** should complete the individual report on their own (see the next page).

What to submit

- 1) We Solve It! Reflection (video & slides) (**optional**)
 - a. 5-7 minute video (one per team) .mp4, .wmv, or .avi (or a link to a video)
 - b. Presentation slides (if used in the video) (one per team) .doc, .docx, or .pdf

Submit in CougarVIEW by Wednesday, May 3rd at 10:00 PM

- 2) We Solve It! Individual Report (one per student), .doc, .docx, or .pdf

Submit in CougarVIEW by Wednesday, May 3rd at 10:00 PM



Grading Criteria

- 1) 20 pts – **Team Presentation**
 - a. Presentation runs and has sound (if video) (please review the entire video before submitting)
 - b. Presentation includes all the elements listed in the task description
- 2) 10 pts – **Individual Report (see last page)**
 - a. Each section of the template is completed
 - b. Each question is answered thoughtfully and thoroughly detailing insights gained
 - c. Report is typed with minimal spelling and grammar errors



We Solve It! Individual Report

DISCOVER

1. What was the real-world situation that you (or your team) addressed in this assignment or activity? In what way(s) might this be a problem? (Define Problem)
2. What are some possible causes of this problem? (Define Problem)
3. What were possible solutions to the problem that you (or your team) identified? (Identify Strategies)
4. Why did one or some of these possible solutions appear stronger than others you (or your team) developed? (Identify Strategies)

DESIGN

5. What could be done to try to solve this problem? (Propose Solution)
6. Why would this solution(s) address/fix the problem? (Propose Solution)
7. What are the strengths and limitations of this possible solution(s) to this problem? (Evaluate Solution)
8. Why should you or your team's proposed solution to the real-world problems be considered creative, reasonable, and powerful? (Evaluate Solution)?

DELIVER

9. What did you consider to make your presentation of the solution persuasive? (Deliver Solution)
10. What feedback did you receive about the persuasiveness of your solution? (Deliver Solution)

REFLECT

11. What new learning or insights did you or your team gain through this real-world problem solving experience? (Evaluate Outcomes)
12. What would you or your team do differently to improve DISCOVER, DESIGN, DELIVER skills of creative real-world problem-solving in the future? (Evaluate Outcomes)
13. How would you evaluate the overall problem-solving ability of you or your team? (Evaluate Outcomes)

GROUP (if working in a team)

14. What percentage did each group member contribute? The total must equal 100% and each value must be unique. For each group member, would you work with them again?

