CS 458 - Homework 7

Deadline

Problems 1 and 2 were completed during the CS 458 lab sessions.

Problems 3 onward are due by 11:59 pm on Friday, October 27, 2017

Purpose

To meet with your project team and properly document those meetings, and to think about several things related to software project risks.

How to submit

Problems 1 and 2 were submitted by including the required files in your team's GitHub team repository by the end of the specified lab sessions.

Submit your file for Problem 3 onward for this homework using `~st10/458submit` on **nrs-projects**, with a homework number of 7

Important notes

- Note that some of your submissions for this assignment may be posted to the course Canvas site.

Problem 1

You needed to meet with your project team in a mandatory team meeting during the Week 8 Lab on Wednesday, October 11, and include a miscellaneous team meeting form `misc-meet-2017-10-11.txt` in your team GitHub repository's `sprint-x/team-meetings/misc-meetings` subdirectory, containing the required contents as described on p. 7 of the project handout.

(That is, you will be graded on working in your team during that lab, and whether your team successfully completed this file, meeting the stated specifications, during that lab.)

Problem 2

You needed to meet with your project team in a mandatory team meeting during the Week 9 Lab on Wednesday, October 18, and include a miscellaneous team meeting form `misc-meet-2017-10-18.txt` in your team GitHub repository's `sprint-x/team-meetings/misc-meetings` subdirectory, containing the required contents as described on p. 7 of the project handout.

(Again, you will be graded on working in your team during that lab, and whether your team successfully completed this file, meeting the stated specifications, during that lab.)

Set-up for Problems 3 and 4

Create a file named `458hw7.txt` that starts with your name. Then give the problem number and your answer(s) for each of the following problems.

Problem 3

Consider the list of Boehm's top 10 software risks, followed by risk-management techniques for each, posted along with this homework handout (as well as with the Week 9 Lecture 2 in-class projections).

Consider a 4-person student team working on a semester project. Select one of these which you think could be a major risk for such a project, and describe why you think it could be a major risk for such a project. Then consider the risk-management techniques suggested for your selection, and select one of these which you believe could indeed help manage that risk, and explain why you think it could help.

Then consider a 10-person team, say working in a start-up, working on a computer game. Select a *different* one of these which you think could be a major risk for such a project, and describe why you think it could be a major risk for such a project. Then consider the risk-management techniques suggested for your selection, and select one of these which you believe could indeed help manage that risk, and explain why you think it could help.

Problem 4

And now, for another kind of risk... You will find an overview by Nancy Leveson of an infamous series of accidents involving a computer-controlled radiation therapy machine, the Therac-25, linked from the course Canvas site, in the "Additional Readings" section. This article is quite long, and please note that I found some of it to be disturbing reading (especially descriptions of the accidents and their aftermath in Section 3), and some of it is also quite technical. For our purposes, read **Section 1, p. 1**, and **Section 4, from pp. 44 - 49**. Section 4 summarizes lessons that the author felt could be learned from this series of accidents.

Consider: which of these lessons would you want to most remember with regard to good software engineering practice? Select at least three that you believe are especially important, and list them, along with why you feel they are important.

Submit your resulting `458hw7.txt`.