

CS 482 – Software Engineering (Fall 2023)

Group Assignment #1 – Requirements

Grade: 5 points (which is 5% of the semester)

Due Date: Set on Moodle.

Late Submissions: There is a cumulative penalty of -0.5 points per day after the deadline. After one week of the due date, late submissions will no longer be accepted.

Assignment

First, the students must assemble into groups of exactly four people, henceforth called Team. Choose your team well, as you will be working with the same team for all the remaining group assignments in this course. Then, send an email to the professor (hscrocha@loyola.edu) with the full names of all the members in your team (if you are the one sending the email, don't forget to include your name on the list). Just one email per team is enough.

The professor will send back an email with the name and contact of your client. In this assignment other computer science faculty will act as clients. Your team will have to schedule an interview to understand what the client wants and needs. In other words, your team will use the interview to gather the software requirements for the project. Please remember the clients are busy people, therefore try to schedule an interview as soon as possible.

Then your team must turn the requirements into User Stories. You need at least ten User Stories (more is better) for your initial product backlog. The stories must also have their story points estimated. Your team must use our standard scale for points (based on Fibonacci sequence), and follow the point convention of CRUD = 8 points. All stories should be estimated on how much they are more or less complex than a CRUD. All user stories must be written using the spreadsheet template in the course Moodle.

Finally, your team needs to create a GitHub repository to store all artifacts (documentation included) for the project. Just one repository per team, be sure to add all team members to it, and also to invite the professor to your repository as full member (GitHub Id: [hscrocha](#))

Please notice that User Stories is an important documentation for your project. Keep it up-to-date and store the spreadsheet in your repository (or put a link to a cloud document in your repository readme file). If it is a cloud document, make sure the professor has permission to read it (better if he can write too).

Your submission on Moodle should be just the link to your GitHub repository. Make sure your team's User Stories spreadsheet are stored, linked, or accessible in the repository.

Please contact the professor if you have questions or require clarifications on the assignment.

Evaluation Criteria (Rubric)

The evaluation criteria for this assignment are “deduction based”. Your submitted work begins with the total points from the assignment, and you lose points if any of the following occur:

- Requirements document inaccessible. No penalty for short delays, but -0.5 pts for each day the Professor cannot access your file.
- Hidden/Missed requirements. You missed an important requirement for your project, -0.5 for one or two major missed requirements, and -1 pts for missing three or more major requirements, -0.1 for each minor requirement.
- Incorrect requirements. Totally incorrect and absurd requirements -0.5 pts.
- Incomplete stories. Minor issues will be ignored. Major issues or an accumulation of lots of small issues will incur in a penalty between -0.1 to -0.5.
- Story points not estimated. Depends on how many requirements do not have points; -0.25 for each user story without points.
- Points in incorrect scale. All story points must follow the Fibonacci scale. Each story point not using that will be penalize -0.25.
- Overinflated Estimations. A few mistakes will be tolerated and not incur any penalties, as long as you fix it. However, teams that overinflate too many stories may have a -0.5 pts penalty, and must fix their point before the next group assignment to not incur in additional penalties.
- Less than 10 complete User Stories. If by the end, you do not have at least 10 complete reasonable and well-estimated stories, you will suffer a penalty of -0.5 per story less than ten. That is why it is a good reason to write more stories, that way you will have a buffer for mistakes.
- No GitHub Repository. Penalty of -1.5 pts.