

# Engineering of Software 1

## Proposal, Tracking, and Guidelines

### Fall 2007

#### OVERVIEW:

Each team is expected to work as a team to fulfill the project requirements as outlined below. While there will (for the most part) be a team grade, periodic peer reviews will also be undertaken to identify exceptions where warranted. The leadership of the team and distribution of responsibilities within the framework of the project are for you to decide. There are various activities that must be undertaken in this project and there are needs for a wide range of skills ranging from writing and presentation skills to analysis and design skills and ultimately to coding and testing skills. Each 'deliverable' (deliverables will be posted shortly) MUST include a peer and self review emailed separately to me at [broggio@unf.edu](mailto:broggio@unf.edu).

#### BACKGROUND:

Your project is to include some investigation of the topic you choose. I would be pleased to discuss any ideas you and your team might have. Please do not hesitate to meet and discuss with me any ideas you might have or any items in the deliverables that need clarification.

#### DELIVERABLES:

There will be several deliverables for your project. These will be discussed under separate link on my web page. However, deliverables will be formal and often presented and openly discussed. The documents will center on a number of artifacts. The requirements for each deliverable will be found in the Project Deliverables link on my web page.

Documentation (and presentations) are to be professional-looking **in every respect**. There can be no spelling errors or grammar errors. These should be documents or models, or graphs that you feel you could turn over to a detailed design team / implementation team or a user. Examples of acceptable documents will be posted on my web page for your consideration. These examples of student work are NOT to be considered Bible, and should not necessarily be considered A-work – but do represent reasonably good efforts. My comments on these student deliverables are not shown; there were a number of such comments on them when they were returned from grading. Nevertheless, they do present some guidance to you for review and/or checkout.

**All teams will establish a schedule.** Each group is to have regular meetings. Teams that get more than a few days behind usually stay behind and never catch up. So it is imperative that your team must stay on schedule. Each project deliverable must include copies of the personal and team software project forms found ahead. These forms reflect your schedule and your adherence to this schedule. The schedule needs to contain targeted deliverables ideally broken down into individual task names (or task-id), anticipated number of hours to accomplish, scheduled start date; actual start date; hours spent on task; completed date; if late, resulting impacts on team, if not finished, get well date; critical path made clear. Perhaps the most difficult aspect of this requirement is scheduling meetings when all or nearly all are available. **Do not make the mistake of portioning all components of the deliverables out to team members and simply**

**gathering them together. While parts may be done a little bit this way, you MUST look at the whole picture, as I will. Fragmentary parts of the deliverable are easily noticeable and are not indicative of a good team formation / working relationship. Verify each other's work!**

**Teams will elect a team leader.** The team chair shall server as my primary point of contact. Each two weeks or on/about the date of the deliverable, the team leader needs to gather schedule and log forms (see below), to come and talk with me in a HowGoesIt Meeting. **Scheduling this meeting is the responsibility of the team chair. I will likely NOT remind you.** Topics might include compliance with schedule, problems encountered, remedies anticipated, successes gained, etc. (Other members may attend) Team leader will receive (anticipated) 105%-110% of earned team grade, "assuming" earned grade exceeds 70% overall, and "assuming" that the team leader enjoys reasonable support of his/her team members. Each deliverable in the project will be separately graded and returned with feedback. If you wish to be the team leader, you must ensure that you are willing to meet with me and discuss the documents just cited. Let me know asap who is the team leader.

**Team SQA leader.** For the first time, the projects undertaken in Fall 2006 will have a SQA (software quality assurance) individual as a team member. These two individuals (I am calling them software quality analysts) will be selected by me hopefully based on prior experience with the RUP and with software development. Their duties will tie together much of the team functions. Among their duties are the tracing of requirements from user needs through 'features' and their capture in Use Cases. The 'tracing' of requirements from concept through to implementation and validation is a huge responsibility! Traceability is a mainstay of all contemporary software development nowadays. Additionally, these individuals must plan on the testing that must be done per use case to ensure all requirements have been not only met but verified. They must design all tests, develop the tests, and implement the tests to ensure application validation. While unknown at this time, they may need one of the other team members to work closely with them – perhaps full time. The software quality analysts will also participate in iteration planning in order to plan, develop, and implement tests to verify the functionality of each iteration.

It is NOT my desire to have the SQA role be the same person as the team leader. The team leader is responsible for the overall quality of the deliverable presented for grading should. The team software quality analyst may assist.

**Peer Reviews:** Discussed earlier but required for ALL team members every deliverable. These must be turned in **separately** by team members **ON THE DUE DATE**. It is **NOT NECESSARILY** anticipated that all/most members of the team will get the same project grade. However, this is may be the case. The nature of the project is a team project. So, while there may be some members who contribute more than others, please note that I view non-participation just as undesirable as over-domination.

## Project Proposal

Course: \_\_\_\_\_

Date: \_\_\_\_\_

Team Number: \_\_\_\_\_

Team Members (last names) :

1. \_\_\_\_\_ team leader

2. \_\_\_\_\_ team software quality analyst

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

Team contact point: (email address team representative): \_\_\_\_\_  
(team leader + sqa person)

Topic:

Anticipated features to be implemented: (Enter a brief description {short paragraph, bullets, etc.} describing agreed-to features that your project will implement) (Use attachment if necessary)

Original Schedule (project tracking) and distribution of responsibilities (task-ids):  
(Include separate hardcopy)