

# CSSE3002

## The Software Process

### Group Assignment 1

#### Goal:

- To develop and test your skills at researching and presenting a software engineering topic.
- To develop peer assessment skills.

#### Deadlines:

**Presentation: Lectures in week 4 to week 12  
(timetable to be announced).**

#### What you have to do:

- Investigate software failure cases in real software projects and choose one that you are interested in to research. The following links may be useful for your initial investigation to find real software failure cases:
  - [Wikipedia: List of software bugs](#)
  - [Peter Neumann's page about software risks](#)
  - comp.risks newsgroup ([Google/Deja news archive](#))
  - Google to find software (or IT project) failure cases
  - Recent cases and/or local ones should be more interesting.
- Negotiate your chosen case with William Billingsley at the lectures by week 3 (i.e. this is mainly to constraint choice so that only one team may choose each case).
- Analyse your chosen case by exploring existing articles and analysis reports on the case and by investigating similar cases.
- Generate the following deliverables:
  - As a team**, deliver a presentation of 15 minutes highlighting the results of your research investigation (all group members should attend their presentation). This presentation will be delivered during week 4 to week 12 in one of the lecture slots.
    - The precise timeslot will be allocated using the online bidding system at this URL: <http://www.doodle.com/f75ad4g7ad59q77f>.
    - Your presentation should contain slide notes with a fully detailed version of the lecture, i.e. exactly what should be said.
    - You may elect to produce the presentation as a video recording. Please note this must be a recording of a speaker giving a presentation, not a movie. The video will then be shown instead of a live talk.
    - After the presentation, the members must answer questions of the audience in alternating order. I.e. question 1 goes to team member 1, question 2 goes to team member 2. This ensures that all team members are familiar with all aspects of the case, rather than one member becoming a specialist.
    - The following areas have to be researched. A team member has to sign off on each area and claim responsibility for the quality of the area. The team member also has final say on what is included in the presentation.

1. Motivation of / need for failed technology (Why was it needed?)
  2. Functionality of technology (How should it have worked?)
  3. Financial and social impact of failure<sup>1</sup> (Why is it a substantial failure?)
  4. Full trace from cause to outcome (How **exactly** did it fail?)
  5. Element of process that failed (Why was the fault not discovered?)
  6. Official recommendation for process change (What did the engineers learn from the failure?)
  7. Your lessons learnt from the case. (What did your team learn in researching this?)
- vi. References: All statements must be based on references. A separate bibliography formatted as A4 page PDF must be produced. References should be taken from print publications, and include page and chapter information. References to web pages must not exceed 20% of the total number of entries. The bibliography must use either Abbreviated style or ACM style as shown here:  
<http://www.cs.stir.ac.uk/~kjt/software/latex/showbst.html>
- b) **As an individual**, attend *at least* five other teams' presentations on this assignment and submit your peer reviews for these five teams (i.e. refer to the assessment criteria provided on the coversheet).

### Submission:

1. The presentation slides are to be submitted via the web assignment submission page located at:  
<http://submit.itee.uq.edu.au/>
2. A paper copy of the CSSE3002 group assignment 1 coversheet signed by all members of the group must be submitted to the lecturer at the presentation.

### Timetable:

A suggested timetable is:

Week 1:	Investigate software failure cases individually and bring your preliminary research results to the group meeting in week 2 tutorial.
Week 2:	Discuss with your team members and choose one topic. Also decide your presentation time.
Week 3:	Negotiate your topic and presentation time with the course coordinator, and work on your case.
Week 4 to week 12	Research your case and complete the presentation and submit the presentation slides. Also, attend at least five other teams' presentations and submit your peer reviews for these teams.

### Allocation of marks for the presentation:

Your presentation will be assessed by your peer students who attended your presentation and provided a peer review (i.e. your presentation marks will be the average of the marks provided by the peer reviews). In the case that less than 20 peer reviews are collected for your presentation, the lecturer will decide your final mark based on the collected reviews as well as his/her own assessment on your presentation.

Each group is required to hand in the CSSE3002 group assignment 1 coversheet identifying the group members and their tutorial. The coversheet must also allocate the percentage contribution for each group member. The mark for the assignment will be divided between group members according to percentages agreed to collectively by the group. The percentages are normally constrained to lie in the following ranges

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<sup>1</sup> If the problem was overcome: What would the **potential** damage have been?

(min, mid, max) and must sum to 100 (but variations outside these ranges can be discussed with the course coordinator).

4 member groups: 20 – 25 – 30

5 member groups: 15 – 20 – 24

All group members should sign the coversheet to indicate their agreement that the percentages represent an equitable division consistent with their individual contributions. Any controversy over the allocation of marks should be referred to the group's tutor and then, as a last resort, to the course coordinator. The maximum mark obtainable by a student on any one assignment is 100%.

### **Final individual marks for this assignment:**

To get the full marks allocated to you (as an individual), you must submit a peer-review for *at least* five other teams' presentations on this assignment. Failing to do this will result in your individual marks gained from your team's presentation decreasing by 2 for each missing peer review. Peer reviews will be collected by the lecturer only at the presentation time (no other times).

### **Evaluation:**

This assignment is worth 10% of the course (6% for CSSE7001 students). Your team's presentation will be assessed by your peer students using the assessment criteria provided on the coversheet.