

C1011 – Software Architecture

Assignment 3

(25 Points)

You are responsible for the evaluation of the software architecture you delivered in Assignment 2. You should use the Architecture Trade-off Analysis Method (ATAM) and deliver an architecture evaluation report. The student groups formed in the Assignment 2 need to collectively complete the assignment again. The score of each student on Assignment 3 will be determined with the group performance by considering individual contribution to the work.

DEADLINE: 11:59pm on (Monday) February 29, 2016

Assignment Deliverables

A single PDF file should be submitted per group. Your report should be in TEN pages (A4 size) or shorter and include the following deliverables:

Your report should include:

- A list of non-functional scenarios. They are mainly from your Assignment 2. You can add more scenarios. They should be organized in a utility tree (5 points). See Table 11.5 in the text book (2nd Edition) [1] for examples.
- Select 6 scenarios. For each scenario, perform an architecture approach analysis following the template in Figure 11.2 (You do not necessarily have to use a table format to organize all the elements). Your selected scenarios should be able to demonstrate the effectiveness or ineffectiveness of all your important design decisions (5 points).
- A list of sensitivity points and trade-off points (5 points).
- A list of risks and non-risks (5 points). A risk/non-risk is an architectural decision (see Chapter 11.2 [1] for definition).
- Individual remark should be complete by each student (about half page each) in a group (5 points), and contains two components:
 - A description of your personal experiences using the ATAM method.
 - A summary of your own contribution to the group work and report.

Notes:

- 1. There is no minimum length constraint for this assignment. Be concise and to the point.*
- 2. You will be assessed based on your ability to apply ATAM rather than the amount of absolute correctness of the evaluation result.*

[1] Software Architecture in Practice, 2nd Edition