Software System Design and Architecture

Project Deliverables Guidelines

(20 Points)

You are responsible to submit the deliverables for your group project in a ZIP file archive, which includes the follows. You need to demonstrate your capability and knowledge about architecture design and evaluation via the project deliverables.

Your group has to deliver the project report that conforms to your early proposal, and also the evaluation report of another group's architecture design. Note that your group and another chosen group CANNOT mutually evaluate each other's project. Although there is no page limit for your report, you have to keep your report as concise as possible. Be aware of Single project submission per group.

DEADLINE: 11:59pm on (Sunday) April 7, 2019

1. Project Report describes (in PDF format):

- the major capabilities and operational scenarios of your project
- the two architecture options with at least one module view and one component-connector view diagrams per option
- a list of all non-functional requirements and architecturally significant requirements (ASRs) in the format of scenarios that you have identified or assumed
- the class diagrams (UML) showing the classes and their associations
- a mapping from each component/connector to its implementing classes in the class diagram
- a context diagram that describes the relationships between the designed system and its environment
- a comparison of pros and cons of each architecture option specifically for your system
- the rationale of your selection and decision on your architecture approaches (e.g., design concerns, and architectural patterns/tactics you chose)
- any other design documents if you think necessary, e.g., prioritized quality scenarios (architecture drivers), utility tree, and etc.
- how did your group apply the ADD method in designing your project?

2. Evaluation Report describes (in PDF format):

- how did the architectural approaches address the prioritized quality scenarios in the evaluated project? (with reference to the template)
- any other evaluation documents if you think necessary, e.g., risks, utility tree, sensitivity points, trade-off points, and risk themes
- how did your group apply the ATAM method in evaluating another group's project?

3. Experiences describe (in PDF format):

- the challenges, best practices and lessons you experienced during the project
- a summary of individual's role in architecture design and evaluation, contribution to the group project and deliverables.

4. Your Presentation Slides (in PowerPoint or Keynote format)

5. Your Project Demo (if any, optional):

- source code
- compiled code & executables
- a Readme.txt file with detailed instructions on: 1) your compilation & implementation platform with the version, where to download your implementation platform, how to install and configure the platform; 2) how to compile your code; 3) how to execute your system.