

System Analysis and Design

Assignment: Spring 2019

Lecturer: Yan LIU

Part III: Design Model

Due: Friday, June 7, 7:00 pm

Mail To: ood_sse@sina.com

Weight in course grade: 25%

For Part III of the project you should present your progress on software design and prototyping.

A report on your progress should be submitted with the following structure:

- 0 Table of contents
- 1 Overview of your progress on system design and a description of implementation platforms and frameworks.
- 2 Architecture Refinement:
 - a. Present a platform-dependent architecture with refined overall structure.
 - b. Provide a list of subsystems and interfaces
 - c. Demonstrate interface specification in details with one or several samples between your system and external systems, such as the e-commerce website, 3rd party messaging system, map services and so on.
 - d. Select one subsystem as an example to specify the its interfaces in details.
- 3 Select any two analysis mechanism mentioned in your analysis model, find suitable solutions in your implementation platform and then provide detailed description of the corresponding design mechanisms.
- 4 Design two use case realizations by incorporating the design mechanisms and refined architecture.
- 5 Progress on prototyping.
- 6 Contributions of team members.

The following models should also be submitted in model file format or PNG format (if you are using online modelling platform/tool)

- 1. Updated use case model and analysis model**
- 2. Design model:** includes the refined architecture, examples of detailed interfaces, and at least 2 examples of detailed use case realizations.

Each team will be presenting your architecture refinement, interfaces and subsystem design, critical design mechanisms and sample use case realization design prior to submitting the final version of this document (Thursday, May 30, 7:00PM – 9:30PM)

Note: You must submit both the required document and the corresponding model.