10520CS446100 Software Engineering

Homework 3

(Notes) For those who go the business visit to Appworks on March. 23, please take exercise of part 1. If you don’t join the business visit, please do exercise of part 2.

(註)有出席參訪的同學，請完成第1部分。若沒有出席參訪，請完成第2部分。

**Part I (100%)**

Please give the feedback of the business visit to Appworks. Detailed descriptions about what you’ve learned from this business visit are encouraged to get higher score. Photos or drawings may also be added. The report should be at least one page but no more than three pages.

**Part II (100%)**

This part includes group question and individual questions. For the group question, 3-5 students should work as a team to finish the question. Please see the visit list of business visit to find your team members.

此部分包含個人題及群組題。在群組題的部分，請參考參訪名單，與其他未出席參訪同學組成3~5人的小組作答。

**Group Question (40%):**

1. **Scrum Project Proposal**

Please write a proposal to design a 3-month project with Scrum. The content of the proposal requires:

* Introduction of your project
* Motivation
* Project content
* List and analyze the stakeholders
* Workload distribution
* Number of involved people
* Roles of people
* Workflow
* Project workflow
* Scrum workflow
* Explanation in details

**Individual Question:**

1. There are six important principles for software metric & measurement, which was adapted from Chapter 1 of Paul Goodman's book entitled “Software Metrics: Best Practices for Successful IT Management” (see attached pdf). Can you find out some real data from industry or academia and then discuss the data in terms of your selected principle? **(30%)**
2. Many software development life models have been introduced in Chapter 2, such as the linear sequential model, the waterfall model, spiral model, the prototyping model, the rapid application development model, the incremental model, the concurrent process model, and agile methods. Now, if you are the project manager who wants to develop a social networking website, Facebook, please analyze this website and list requirement in advance and decide which one model could be adopted in this project. You must explain why do you choose this model? How does the process of each stage for this project conform to the selected model? What’s pro and con when adopting another models described in Chapter 2 for this project? Please do not copy sentences from handouts or websites. **(30%)**

**Format**

Each group is required to hand in a zip file including individual and group part. For example:

**SE\_HW3\_Group.zip**

**SE\_HW3\_102062201.pdf**

**SE\_HW3\_102062202.pdf**

**SE\_HW3\_102062203.pdf**

**SE\_HW3\_102062204.pdf**

**SE\_HW3\_102062205.pdf**

**SE\_HW3\_102062206.pdf**

**SE\_HW3\_Group.pdf**

1. **Deadline: 2017/3/31 23:59**
2. Font: 12pt, 1.5 lines
3. Language: Chinese or English
4. File type: pdf or doc