10520CS446100 Software Engineering

Homework2

Group Question (100%)

(Notes) Two or three students should work as a team to finish group part.

（註）群組題若為 6 人的組別，請以 2、2、2 人為一組作答，若 5 人的組別則以 2、3 人為一組作答;檔案上傳的格式請參照最後的說明。

(100%) Develop a grade system (GradeSystemProject.doc) using the **myAgile method** described in the myAgile.pptx file:

Please pair your group members off in this exercise.

If the number of your group members is seven, please also separate into three little groups.

What you need to do (refer to GradeSystemProject.doc):

1) Use Eclipse to develop the Java code which is readable including the **source code**, **header**, and **pseudo-code**. (1. Notice that you can create new functions except 顯示成績(Show the grade), 顯示排名(show the rank), 顯示平均(Show the average), 更新配分(update weights) and 離開選單(exit)

2) Use JUnit to develop two **unit test codes** for each public method and at least two **integration test codes.** (also need headers)

3) Use eUML2 to get the **UML class diagram** automatically.

What you need to hand in:

1) (70%) The whole Eclipse project (including grade system **source code**, **header**, **pseudo-code**, **test code**, **.ucd** file generated from eUML2)

2) (20%) Relevant documents (including **user manual**, **acceptance test cases**, **architecture design** and **a picture**)

3) (10%) A file recording **the time** you spend on the following items for each method. (Unit: hour) [excel file]

    i. Unit test cases planning (test code header writing)

    ii. Unit test coding (test code writing)

    iii. Pseudo-coding, tracing to debug, and header writing

    iv. Source coding

    v. Unit-testing (including integration).

For details, please refer to the myAgile.ppt and GradeSystemProject.doc files.
For your information, please refer to the JUnit.ppt and eUML2.doc files.

Format

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

SE_HW2_Group_0.zip

    SE_HW2_102062201_102062202.zip

      <Eclipse project folder>
      Documents.doc
      Time.xlsx

    SE_HW2_102062203_102062204.zip

    SE_HW2_102062205_102062206.zip

二、作業規範

1. 繳交期限：2017/3/31 23:59 前上傳至 iLMS

2. 文件格式：

（1）行距：1.5 倍行高

（2）使用語言：中文或英文不拘

（3）中文字體：標楷體、大小 12pt

（4）英文、數字及標點符號字體：Times New Roman、大小 12pt。

3. 文件檔案格式：.doc 或.pdf