CS3343 Software Engineering Practice

BSC4 Project Group 6

Project Plan

CHAN Ho Man 53078369

CHEUK Yik Sum 53012319

CHAN Ho Man 53091240

LEE Man To 53075299

HO Sui Cheong Jonathan 53117178

CHEUNG Chi Ngai 53013494

Tutorial Section: LB2

Last Modified by Cheuk Yik Sum on 27th November, 2014

# 1. Summary of the project

1.1 Project Description

This project aims at produce a program that can help user to decide how to allocate courses in time table.

In every semester, students in university will need to register courses, but choosing courses to register may be difficult because of the reasons below.

1. Courses may have conflict on time slot so some of the course cannot add to time table with others.
2. Courses will have lecture and tutorial so one course will occupies more than one time slot.
3. Course may have different combinations of lecture and tutorial.
4. Sections may occupy more than one hour of time slot.

1.2 Stakeholders

|  |  |
| --- | --- |
| **Stakeholder** | **Description** |
| Students | User of the course allocation system |

1.3 Objectives of the project

Expectation

This project will produce a program that will help user to generate a time table.

User only need to input a text file that contain the information about course that user want to take. The course first input course in the input file will mean that the course have higher priority, and the same imply on the section of the course.

The information of course and section inside the input file will be in XML format.

Aims

Aim 1:

Detect time conflict of sections in courses so that the time table will be possible for user to register

Aim 2:

The program should produce time table that contain as much high priority course and section as possible.

# 2. Summary of Methodology

2.1 Software development methodology to be used

1. This project will have 3 releases, each release should provide more functions that our team have been decided to implement before.
2. Development will be in test-driven approach, which means testing will start inside the development period and the development of program will base on the feedback of the test. Members will try to develop program that can full fill the requirement of the test (passing the test case.)

2.2 Project team organization

|  |  |
| --- | --- |
| **Name** | **Role** |
| CHAN Ho Man (53078369) | Project Manager: |
| CHEUK Yik Sum (53012319) | Assistant Project Manager |
| CHAN Ho Man (53091240) | Scrum Master |
| LEE Man To (53075299) | Pair Programmer |
| HO Sui Cheong (53117178) | Pair Programmer |
| CHEUNG Chi Ngai (53013494) | Pair Programmer |

2.3 Development tool to be used

In this project, we are mainly use Eclipse 4.3.2 Kepler that runs in Java 1.7 Platform for the program development. We also adopt the Junit Function inside the Eclipse for software testing. We also set up a project website in google (url: <https://code.google.com/p/cs3343-2014a-g6/>) for exchanging the project information of this course. And the default input of our program is xml file.

2.4 Configuration management

In order to let all the contribution of group member to be synchronised, we use Tortoise SVN to commit and update the project document and code to our project website. All members should state the change they have made in the log when they are committing file to the project websites so that the project manager can keep track of version control.

# 3. Work Breakdown Structure

# 4. Project Schedule

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| --- | --- |
| **Week** | **Things We Have done** |
| 1-2 | Team Building, Knowing Each Other |
| 3 | Decide the Project Topic |
| 4-5 | Coding of some Basic Class in Store Package |
| 5 | Release 1 |
| 6-9 | Coding of the Course Handler, Start Testing some of the Course Function in JUnit Test Case |
| 9 | Release 2 |
| 10-11 | Start Writing the XML Handler. Code Refactoring and Bug Fix |
| 12 | Intergration of Whole Project, Documentation |
| 13 | Release 3 (Final Release) |

# 5. Deliverables and their date

The final deliverables of our project will be a command like with user input. User can input the XML file path to use their application. The expect release date is 28th November,2014.