Academic Year 2024-2025 Semester 1

420407 - Software Design Patterns

Assignment A

Requirement

Each team of candidates is required to study and present ONE refactoring technique, selected from Refactoring Guru (https://refactoring.guru/refactoring/techniques). Candidates are required to use this catalog as the primary resource for their research, and to explore additional relevant materials to deepen their understanding on the selected topic. After completing the study, teams must present their findings in the form of a presentation.

Presentation

Each team is required to deliver a presentation that comprehensively introduces the selected refactoring technique. The presentation must be in English and completed within 8 minutes (no overtime is allowed). The presentation should cover the following key aspects of the topic:

1. The problem to solve
2. The solution of refactoring
3. Detailed steps to implement the refactoring technique
4. A concrete example of implementing the refactoring technique
5. Benefits and drawbacks
6. Other related issues (if any)

Following the presentation, the team will participate in a Q&A session, in which they must respond to questions raised from the examiners. Questions will focus on the topic of presentation, as well as essential knowledge and skills related to refactoring which the team is expected to have acquired during their study.

Presentation dates and time slots:

A. 3:30-5:00pm, 28 November 2024
B. 1:30-3:05pm, 5 December 2024
C. 1:30-5:00pm, 12 December 2024
D. 1:30-3:05pm, 19 December 2024

Presentation venue: F202, Jiading Campus, Tongji University

Submission

Each team is required to submit the presentation slides via *Canvas* **no later than 11:00pm on the day before the presentation day**, with the first page presenting (a) the title of the selected topic and (b) the full names and matriculation numbers of all team members.

The slides should be composed in English, and be submitted as a PDF document.

Grading Criteria

Grading Criterion	***Weight***
Problem	10%
Solution	20%
Detailed steps of implementation	20%
Example of implementation	20%
Benefits and drawbacks	10%
Presentation quality	20%

THE END