

Group Assignment

Course: Design Pattern & Software Testing
Semester: Winter 2015

Deadline: 8th April 2015
Marks Allocated: 25%

Instructions:

- Make sure that you integrate academic theory to support your arguments.
- Please remember that plagiarism is a serious offence. Therefore, ensure that your work is original and properly cite all facts that you have used in your report.
- All sources of information must be referenced using APA style.
- Word limit: 2000-2500 words, exclusive of the executive summary, table, figures, & appendices.

Task 1 – 10 Marks

- Create a java application which uses at least six design patterns that you have learnt.
 - You may improve an existing java application using design pattern.
- **Deliverables**
 - The source code as a zip file – clearly show patterns used with comments.
 - A word document that must include the following:
 - Description of design pattern selected and a justification of your choice.
 - Class diagrams - clearly showing the use of design patterns.

Task 2 – 10 Marks

- Test the above project and prepare a professional report that consist of following topics/sections:
 - Test Design, Automation, Execution & Evaluation
 - Test Management
 - Test Maintenance and Test Documentation
 - Attach test artifacts that you created.

Task 3 – 5 Marks

- 20 min Group Presentation on your finding (due 9th April 2014)

Evaluation Criteria:

- Critical analysis of the design and use of appropriate design pattern with justification.
- Critical analysis and use of the testing in the selected project.
- Clarity, conciseness, correctness and organization of the report.

The oral presentation evaluation criteria:

- Effective use of time. Keeps within allotted time. Presentation set-up doesn't require a significant amount of time. Team coordination.
- Presentation clearly depicts the design patterns used and testing activities of the selected project.