

Cairo University

Faculty of Computers and Information



CS352 – Software Engineering II

Phase 1 Template

2017

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Review Check List

Design and Code Checklist

Design Principles

- 1- Does the design follow SOLID principles? ☐ What % ...55... Related Issues:
The code doesn't follow all the SOLID principles. It doesn't apply open closed principle, interface segregation principle and also doesn't apply high cohesion and low coupling.
- 2- Does the design follow OOP rules? ☐ What % ...70... Related Issues:
The design is quite following the OOP rules but the implementation doesn't follow the design so there is no compatibility with the design and the implementation.
- 3- Is the design simple and easy to modify? ☐ What % ...40... Related Issues:
The design is not easy to modify because it has many dependencies so if any part had changed it will affect the other parts of the code. So it will be complicated to modify the code.

Coding Standards

- 4- Is the code understandable and readable? ☐ What % ...50... Related Issues:
The code has many parts that not readable like some variables that doesn't make sense and also the Code would be quite hard to be understood by anyone wants to read the code and complete it.
- 5- Does the code follow Java Coding Style? ☐ What % ...65... Related Issues:
Many parts of the code doesn't follow the java coding style.
- 6- Is indentation used properly? ☐ What % ...90... Related Issues:
Most of the code follow the indentation properly
- 7- Do variable have good names? ☐ What % ...50... Related Issues:
Almost 50% of the variables doesn't have good names

Comments

- 8- Is the code commented enough? ☐ What % ...0... Related Issues:
The code doesn't have any comments
- 9- Is every class and method commented? ☐ What % ...0... Related Issues:
There is no comments at all
- 10- Do comments follow Javadoc style? ☐ What % ...0... Related Issues:
There are no comments



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11- Is Javadoc generated for all the code?

No it has no javadoc



What % ...0... Related Issues:

12- Are there useless / wrong comments?

There is no comments at all



What % ...0... Related Issues:

Code Structure

13- Does the code follow the design precisely?

Most of the classes haven't been implemented. Only 2 classes have been implemented and also doesn't apply the design properly.



What % ...20... Related Issues:

14- Are there very long classes or methods?

The implemented classes are not quite long



What % ...30... Related Issues:

15- Is there repeated code?(put in a function)

The two implemented classes almost exactly the same



What % ...50... Related Issues:

Error Handling

16- Does the code handle errors and exceptions?

Many parts of the code doesn't handle errors and exceptions



What % ...15... Related Issues:

17- Is defensive programming used to avoid errors?



What % Related Issues:

Logic

18- Do loops have correct conditions and bounds?

19- Do loops always terminate?

All the loops implemented have correct conditions and bound and also always terminates



What % ...100... Related Issues:

Overall

20- Are the design and code of good quality?



What % ...40.....



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Testing

Number	Testing function	Description	Result
1.	Login(User Name , Password)	Testing function for login to the system in Student class that test the Login in normal scenario and return true if login successful and false if not.	Failed
2.	Registration (name , pass , email , age..)	Testing function for Registration function in student class. This test case test the normal Registration scenario That take user information and save it in file to be used by login function, and we test this function using login function to check if it write in the file or not. Function register write in the file in a way and function login read from the file on another way.	passed
3	Login(User	Testing function for login to the	Failed



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	Name , Password)	system in Teacher class that test the Login in normal scenario and return true if login successful and false if not.	
4	Registration (name, pass, email, age..)	Testing function for Registration function in Teacher class. This test case test the normal Registration scenario That take user information and save it in file to be used by login function, and we test this function using login function to check if it write in the file or not. Function register write in the file in a way and function login read from the file on another way.	passed

Git repository link

<https://github.com/FatmaAdel96/CS251-MohamedSamir-20140214-SRSDocum>