Cairo University Faculty of Computers and Information



**CS352 – Software Engineering II**

**Phase 1**

**2017**

**Project Team**

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# Review Check List

**Design and Code Checklist**

**Design Principles**

1. **Does the design follow SOLID principles?**

* %10 Issues: S: class user has more responsibility
* O: No Open close.
* L: not use
* I: not use
* D: not use

1. **Does the design follow OOP rules?**
   * + - % 80 Issues: class user has more responsibility there are Variable private and not have setter and getter.
2. **Is the design simple and easy to modify?**
   * + - % 70 Issues: it’s simple and easy to use but not easy to modify.

**Coding Standards**

1. **Is the code understandable and readable?**
   * + - % 95 Issues: No issue.
2. **Does the code follow Java Coding Style?**
   * + - % 90 Issues: there is class called run and it’s not follow java coding style which class must be noun not verb
3. **Is indentation used properly?**
   * + - % 40 Related Issues: no indentation in class User
4. **Does variable have good names?**
   * + - % 90 Issues: all Class profile has problem in variable name, Class Run line 127 and Class User lines: 27 ,47,63,71,77,97.

**Comments**

1. **Is the code commented enough?** 
   * + - %85 Issues: the code is understandable for developers but for another no.
2. **Is every class and method commented?**
   * + - % 20 Issues: most of the code are not commented.
3. **Do comments follow Javadoc style?**
   * + - % 0 Issues: he uses line comment only.
4. **Is Javadoc generated for all the code?** 
   * + - % 0 Issues: no Javadoc Style.
5. **Are there useless / wrong comments?** 
   * + - % 95 Issues: class Run Line 21 Wrong Comment

**Code Structure**

1. **Does the code follow the design precisely?**
   * + - % 40 Issues: Function Requirement, no score, no rate, no feedback,

no filtered list in game, no track progress, no adapt to level, no search, no stop game - no write comments -no validate in Create game like answer can be "" or can be not in choose.

1. **Are there very long classes or methods?**
   * + - % 40 Issues: Class User has very long number of methods.
2. **Is there repeated code? (put put in a function)**
   * + - % 85 Issues: repeated code in for loop to clear screen.

**Error Handling**

1. **Does the code handle errors and exceptions?** 
   * + - % 80 Issues: when I chose Exit from main menu program doesn’t log out or Exit program and when entering choice in MCQ question, there is no expectation as required
2. **Is defensive programming used to avoid errors?**

* % 60 Issues: not use try and catch in code in general

**Logic**

1. **Do** **loops have correct conditions and bounds?**
   * + - % 95 Related: No issue
2. **Do loops always terminate?**
   * + - % 85 Issues: there is an infinite loop when sign in then try to sign out and exit.

**Overall**

1. **Are the design and code of good quality?**
   * + - % 75 Issues: code and design don’t have a good quality

# Testing

|  |  |  |  |
| --- | --- | --- | --- |
| Number | Testing function | Description | Result |
| 1. | Sign\_up (name, pass, mail, type, res) | Testing function for Sign up function in Run entity. This test case test the normal sign up scenario:Enter exist user or emailEnter empty felidEnter valid dataAssumption: No | Passed |
| 2. | ValidateUser (username, pass, res) | Testing function for valid user function in Run entity. This test case test the normal login scenario:Enter valid dataEnter Empty felidEnter invalid dataAssumption: No | Passed |
| 3. | CheckNamePassword (name, pass, res) | Testing function for checkNamePassword function in User entity. This test case test the normal login scenario:Enter Valid DataEnter valid name but -1 in password (failed case)Enter empty felidEnter in valid felidAssumption: No | Failed |
| 4 | Create\_Game(res) | Testing function for Create\_Game function in User entity. This test case test the normal login scenarioEnter Valid DataEnter Exist Game Name (Failed)Enter number of Question =0 (Failed)Assumption: No | Failed |
| 5. | Fill\_profile (name, pass, mail, type, res) | Testing function for Fill profile function in User entity. This test case test the normal sign up scenario:Enter exist user or email (Failed)Enter empty felidEnter valid dataAssumption: No | Failed |

# Get repository link

#### <https://gitlab.com/SamehMohamed/SoftWare_One.git>