Cairo University Faculty of Computers and Information



**CS352 – Software Engineering II**

**Phase 1 Template**

**2017**

**Project Team**

|  |  |  |  |
| --- | --- | --- | --- |
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**[Omer Khaled]**

**Design and Code Checklist**

**Design Principles**

1. Does the design follow SOLID principles? ∏ What % …… Related Issues:
2. Does the design follow OOP rules? ∏ What 90% …… Related Issues:
3. Is the design simple and easy to modify? ∏ What 75% …… Related Issues:

**Coding Standards**

1. Is the code understandable and readable? ∏ What 95% Related Issues:
2. Does the code follow Java Coding Style? ∏ What 95 %Related Issues:
3. Is indentation used properly? ∏ What 90% Related Issues: …….…
4. Do variable have good names? ∏ What 95% Related Issues: …….…

**Comments**

1. Is the code commented enough? ∏ What 20% Related Issues: …….…
2. Is every class and method commented? ∏ What 30% Related Issues: …….…
3. Do comments follow Javadoc style? ∏ What 0% Related Issues: …….…
4. Is Javadoc generated for all the code? ∏ What 0 % Related Issues: …….…
5. Are there useless / wrong comments? ∏ What 0 % Related Issues: …….…

**Code Structure**

1. Does the code follow the design precisely? ∏ What 0 % Related Issues: …….…
2. Are there very long classes or methods? ∏ What10% Related Issues: …….…
3. Is there repeated code ?(put put in a function) ∏ What 0% Related Issues: …….…

**Error Handling**

1. Does the code handle errors and exceptions? ∏ What 0% Related Issues: …….…
2. Is defensive programming used to avoid errors? ∏ What 0 % Related Issues: …….…

**Logic**

1. Do loops have correct conditions and bounds? ∏ What % …… Related Issues: …….
2. Do loops always terminate?

**Overall**

1. **Are the design and code of good quality?** ∏ What % 50

# Testing

* 1. **Game class**

|  |  |  |  |
| --- | --- | --- | --- |
| **Number** | **Testing function** | **Description** | **Result** |
| **1.** | **getGames("Math")** | **Test function getGames("Math")**  **To check that the games is save in it** | **Passed** |
| **2.** | **getGames("math")** | **Test function to check that when the first letter is small it will recognize the category name of not** | **Failed** |

**2.1 Student class**

|  |  |  |  |
| --- | --- | --- | --- |
| **Number** | **Testing function** | **Description** | **Result** |
| **1.** | **updateScore("Ahmed",2.5);** | **Test that update function is work write by put score =3 and expect after update it will be 5.5** | **Passed** |
| **2.** | **updateScore("Ahmed",2.5);** | **Test that update function is work write by put score =3 and expect after update it will not be 5.5** | **Failed** |

**3.1 Teacher class**

|  |  |  |  |
| --- | --- | --- | --- |
| **Number** | **Testing function** | **Description** | **Result** |
| **1.** | **validateName("ahmed")** | **This function check if this user name is already exist or not if not return false** | **Passed** |
| **2.** | **validateName("ahmed ali ")** | **This function check if this user name is already exist or not if yes true** | **Failed** |

**3.2 Teacher class**

|  |  |  |  |
| --- | --- | --- | --- |
| **Number** | **Testing function** | **Description** | **Result** |
| **1.** | **validateLogin("ahmed", "1234")** | **This function test the login function by sending it true values that is save in the program and wait to check the result of login function** | **Passed** |
| **2.** | **validateLogin("ahmed mohammed", "1234")** | **This function test the login function by sending it false values that is not save in the program and wait to check the result** | **Failed** |

# Git repository link

**https://github.com/mahmoudsam45/mahmoudsam45**