Cairo University Faculty of Computers and Information



**CS352 – Software Engineering II**

**Phase 3-a: Review Report**

**2015**

**Project Team - Desoky AbdElqawy**

|  |  |  |  |
| --- | --- | --- | --- |
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**The Team That We Reviewed**

**https://github.com/Bazma/FCI-CS352-MiraAyman**

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| --- | --- | --- | --- |
| **ID** | **Name** | **ID** | **Name** |
| **ID** | **Name** | **ID** | **Name** |
| **ID** | **Name** | **ID** | **Name** |

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# Instructions [To be removed]

* **IMPORTANT. Rename this document to CS352-LeaderID-TANAME-Phase3-a.docx**

**[Write TA name in your document name]**

**Examples:**

**CS352-20120001-MohamedSamir-Phase3-a.docx**

**CS352-20120001-YomnaMagdy-Phase3-a.docx**

**CS352-20120001-DesokyAbdElqawy-Phase3-a.docx**

**CS352-20120001-OmarKhaled-Phase3-a.docx**

**CS352-20120001-AhmedMohamed-Phase3-a.docx**

* **Remove the following notes and any red notes**

# Review Process

* **Your job is helping another team to improve their project.**
* **Check which team you are reviewing in the attached sheet.**
* **If your group name is missing and you are not assigned a team to review, contact your TA as soon as possible.**
* **Go to the repository assigned to you and read the code and familiarize yourself with their project.**
* **Use the checklist below to read and evaluate the code thoroughly and write an issue for each bug or violation you found in their code. Enhance or upgrade the checklist as you find issues that the current checklist does not cover.**
* Another useful checklist is available here:

<http://blog.fogcreek.com/increase-defect-detection-with-our-code-review-checklist-example/>

* **Fill in this report and write proposals and suggestions for enhancing and improving the code and design of their program. SEND THE REPORT TO THE OTHER TEAM.**

# Review Check List

* **Use the provided checklist as a starting point for your review. Add more items as issues arise during the review.**

**Design and Code Checklist**

**Design Principles**

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

**Coding Standards**

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

**Comments**

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

**Code Structure**

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

**Error Handling**

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

**\*\*** What % …… [Here, you write the % you give to this code in the corresponding item]

\*\* Related Issues: …….… [Here, you write the numbers of issues in next page related to this]

# List of Issues Found

* **In this section write in all the issues you found in the code and where you found them.**
* **Issues are errors, bugs, unclear code, violations of the items in the check list, etc.**
* **For each issue, write:**
  + **Where it was found in the code.**
  + **What the problem is.**
* **The details of all the issues should be written in GitHub in full details.**

**Design Principles**

1. ………………………………………………………………………………………………………………………………………………
2. ………………………………………………………………………………………………………………………………………………

**Coding Standards**

1. ………………………………………………………………………………………………………………………………………………
2. ………………………………………………………………………………………………………………………………………………

**Comments**

1. ………………………………………………………………………………………………………………………………………………
2. ………………………………………………………………………………………………………………………………………………

**Code Structure**

1. ………………………………………………………………………………………………………………………………………………
2. ………………………………………………………………………………………………………………………………………………

**Error Handling**

1. ………………………………………………………………………………………………………………………………………………
2. ………………………………………………………………………………………………………………………………………………

**Logic**

1. ………………………………………………………………………………………………………………………………………………
2. ………………………………………………………………………………………………………………………………………………

**General**

1. ………………………………………………………………………………………………………………………………………………
2. ………………………………………………………………………………………………………………………………………………

# Adherence to SOLID Principles

* **In this section comment on quality of the code in terms of adherence to the three SOLID principles we studied so far (Single Responsibility, Open/Close and Liskov) and also adherence to general OOP principles (good use of encapsulation, inheritance, polymorphism, etc.)**

# Suggestions for improvements

* **In the above, we wrote about errors and violations in the code.**
* **Here, please write possible ways to enhance the software. This can include (but not limited to):**
  + **What are ideas for improving the design?**
  + **What are ideas for applying design patterns in this system?**
  + **What are ways for improving the comments and coumentation?**
  + **What are ways for enhancing the coding style?**
  + **Is there unnecessary, duplicate or dead (never used) code?**
  + **What are ways for improving the user interface?**
  + **What are other ideas for improving the system?**
  + ……………………………………………………………………………………………………………….…………………
  + ……………………………………………………………………………………………………………………………….…

# Team Member’s Contributions

* **Write here the role of each team member in the review process.**
* **Very clearly describe what each team member reviewed and what he found in the code under review.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **ID** | **Piece of Code Reviewed**  **(Class, Service, function, ….)** | **The Issues/Suggestions Found (refer to #s above)** | **Time Spent** |
| Sayed | 20100100 | Class X, …… | Issue 1, 4, 7, 16  Suggestions 4, 6  Total: 4 issues + 2 sugg. | 6 hrs |
| Heba Khazbak | 20120516 |  |  |  |
| Ziad Mohamed | 20120185 |  |  |  |
| Sarah Hany | 20120191 |  |  |  |
| Dalia Maher | 20120166 |  |  |  |