

Code Review 2

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Strategy

- Look for how well SOLID design principals and the various design patterns are implemented. Is there anything that could be changed that would make it have a better design?
- Check to see that the code conforms to SRP principals.
- Look for how well documented the code is. Is the internal code commented well? Are there docstrings? Are the variables and methods named appropriately?
- Check to see if the code matched how they were presented in the tasks (verification).
- Check to see if the code helps meet the expectations of the clients (validation)
- How well make are the corresponding unit/integration tests for the code? Do they cover all edgecases adequately?

Review Distribution

Group Member	System	Package
Saad	Report System	com.team5.report
Won	Database Connection System	com.team5.database
Alex	GUI Interface	com.team5.gui
Мо	Parsing System	com.team5.parser

Review Summary

Alex:

GUIManager.java

What was done well:

- Code is easy to read and is well documented.
- Follows SRP principals very well.

What to improve on:

- Hard-coded constants in the file (ADMIN, ICARE, REPORT). Put them in the configuration file and load them.
- Hard-coded values in method calls (line 69 with load("Admin")).
- public void load() has a misleading name. Should change to loadDefault()

ICarePanel.java, ReportPanel.java

What was done well:

- Methods and variable names are named appropriately.

What to improve on:

- There needs to be more internal comments, especially in the constructor since there is a lot of code there whose functionality is not instantly apparent.
- Docstrings need to be added.

SuperPanel.java

What was done well:

- Methods and variable names are named appropriately.
- Internals comments were adequate.

What to improve on:

- The name of the class is very vague. It should be renamed to something better.
- Docstrings need to be added.

EventHandler.java:

What was done well:

 The code is pretty self explanatory and the internal comments explain any unclear parts.

What to improve on:

- SRP is violated and there are many if statements differentiating states.
 - To fix, a composition/decorator design pattern should be implemented.
- Hard-coded constants in the file. Put them in the configuration file and load them.
- Docstrings need to be added.

Mo:

TemplateParser.java

What was done well:

- Code is documented well.
- Variables are named appropriately.
- Follows SRP well.

What to improve on:

- Name of variable inputobject should be inputObject to conform to google style guide (small fix).
- More commenting should be added to the code.
- Add @SupressWarnings annotation to suppress the warnings in the methods just to keep code error and warning free.
- Refactor demo code (Some of the file paths are incorrect).

MissingFieldException.java

What was done well:

- Code is easy to understand.
- Method names are consistent.

What to improve on:

- Remove all the unused imports because it causes the java compiler to mark the file as having warnings.
- Either add a default or generated serial version ID to remove warnings or add a @SuppressWarnings annotation.
- Add javadocs to the code.

• Won:

MongoDriver.java

What was done well:

- All variables and methods are named properly and have good descriptive names.
- The code follows SRP principles all methods have one purpose.
- Very well documented and very easy to understand.

What to improve on:

- A few typos in the comments.
- Some unnecessary comments describing very trivial things.

DatabaseDriver.java

What was done well:

- All variables and methods are named properly and have good descriptive names.
- The code follows SRP principles all methods have one purpose.
- Well documented

What to improve on:

Missing some docstring parameters in some of the functions.

• <u>Saad:</u>

Overall:

What was done well:

- Inheritance is a good structure to use for charts.
- Well commented.
- Responsibilities are grouped effectively, not only by package but by individual classes.
 Each chart has its own type and generator.
- Comments are thorough.

What to improve on:

- Could create some superclasses that define functions that are commonly repeated in children to reduce duplicated code.
- Could use some cleanup to remove unnecessarily commented code.