

Code Review Strategy:

Team members will focus on the following categories when reviewing code:

- Code Readability (styling, meaningful variables)
- Quality of Documentation (Javadoc, internal comments)
- Quality of Design (adherence to SOLID and other best practices)
- Test Coverage

Each package in the codebase will be reviewed by different members of the team:

Package	Assigned Team Members
Action	Andy, Sin
Command	Samuel
Database	Andy, Aradhya
DatabaseAPI	James, Samuel
Exceptions	Aradhya, Sin
GUI	Andy, James, Samuel
Models	Aradhya
Tests	All

Code Review Summary:

Andy:

- There are still some “dead” imports
- Inconsistent styling in the use of spaces for tabs, 4 spaces for some and 2 for others

Aradhya:

James:

- The use of exceptions could be more consistent, in particular with the database and dbAPI packages.
- Documentation of independent classes is good, but there could be an improvement on how classes from different packages interact with each other.
- Inconsistent use of this.x for private variables of classes where x is the variable, particularly in GUI package.
- Should find a way to put databaseTester with the rest of the junit tests.

Samuel:

- Actions and Commands need further decoupling; perhaps use dependency injection

- API interfaces for interacting with the database are too general; can separate APIs into classes for interacting with each object model type, inheriting from a generic interface
- Usages of general Object types and instanceof in commands should be changed to be more statically typed
- In general, more interfaces should be used to program to an abstraction rather than an implementation
- More focus on test coverage is needed

Sin:

- Inconsistent styles, some are using 4 spaces and some are using 2 spaces for tabs
- Errors are not being handled properly
- There are unused variables and imports
- Follows the SOLID principles for the most part
- No dead code or unnecessary debug statements
- Documentation is good overall, methods and variables have meaningful name

Code Review Debriefing Meeting:

<https://www.youtube.com/watch?v=XDAmmxR0koY>