

## Metrics Tracking for JXI

### Product Metrics

- Test Cases / Method
  - This metric will help track the “coverage” of our code. It is a very crude measurement of code coverage but we will control quality through well-designed and well-written code and tests.
- Total Number of Tests
  - This metric will track the sheer volume of tested code in our system. Ideally, this number will be much greater than the number of methods we write.
- Methods / Class
  - This metric will help us ensure code quality. We will attempt to reduce the number of methods per class in order to keep code simple and readable.
- Reek (code smells)
  - This metric will keep track of how many code smells remain in our code during each release. This will help us track how well our code is written and designed.
- Saikuro (Cyclomatic Complexity)
  - This metric will focus on paths through our code. Based on the paths, it will assign a cyclomatic complexity score to each method, and will illuminate where inelegant code lies.
- Flog (Cyclomatic Complexity)
  - This metric also measures cycloamtic complexity, but uses an “ABC” (Assignment, Branching, Calls) calculation method. This metric will assign a score to each method, and an average score for the application. This slightly more in-depth look at the code will ensure we are not producing unnecessarily intricate code.

### Communication Metrics

- Client Communications per Week
  - This will involve tracking the number of times that the client is contacted (via meetings, discussions, e-mail, etc.) about the project.

Unless otherwise stated, each metric will be tracked weekly via running “rake metrics:all” on the project.