

## Group Exercise #2

Open Source Project Exploration  
See Assignments Canvas for due date

Your group is to explore open source projects to identify existing code bases to which you might like to contribute. You will produce a report on two candidate projects that meet these criteria:

- Written in Java
- Is a single application or library with many, many classes.
- Has an active bug stack or feature request log with at least five new entries in the last six months and 10 in the last year.
- Has more than one contributor or has tens of thousands of lines of code (or both).
- Does *not* have meaningful design documentation.
- Is in a domain where your team believes they could manage the learning hurdle to understand the domain.
- Is not just an application of an existing framework.
- Has a meaningful automated test suite (JUnit or nextGen).

### Deliverables

- A description of each project. What does it do; who is the expected user; how old is it; how large is it; how many contributors; what is the general state of the documentation; does it have continuous integration support, including automated test; what external dependencies does it have.
- An analysis of the bug/feature stack:
  - total number of entries
  - close rate over the last six months.
  - new rate over the last six months.
  - most recent 5 feature requests.
  - breakdown between feature request and bug report.
- A summary of existing automated test capability.

### Purpose

I will select ten different projects for us to examine during the rest of the semester.

When the projects have been identified, we will change group composition and groups will be assigned a project for the rest of the semester.

Each project will be assigned to two teams. Each of those teams will complete the same assignments on their project, so we can have alternate solutions to discuss.

You will have weekly reports/assignments due, and I will select aspects of a few projects to discuss in class each week.