# Testing

We will use unit testing extensively using the JUnit 3 framework. We will also use DBUnit for database testing, and Apache Cactus with HttpUnit for servelet testing.

## Test Cases

Each functional/non-functional requirement identified will have an associated test case to ensure the final product complies with user requirements.

A set of test cases will we developed for all interfaces to ensure the contract is maintained. Also public methods of classes that do not implement any interfaces will also have test cases.

For every bug report there will be an associated test case that ensures that the bug remains fixed.

Test cases will use a mix of white and blackbox testing to ensure that normal inputs, border and error cases are all tested.

# Metrics

We will use several metrics to ensure our code remains high quality.

Coverage testing will be used with Emma to ensure that the test cases cover as much of the code base as possible. The target will be 90% coverage.

JDepend will be used to ensure that there are no flaws in our code bases dependencies. We will try to correct all issues highlighted.

PMD will be used to identify other potential problems in our code base. We will try to correct all issues highlighted.