

Team Silver
Benjamin Trettin
Christian Shinkle
Kendall Berner
William Fuhrmann

Textual Description of Changes:

Our new feature we will add will be the ability to use a `@Run_in` tag on testng tests. Using this tag will allow different environments can run the same test and the tests can use different configurations to match the environment the tests are run in. Environment will be set using the command line.

The classes we will need to update are `Configuration.java`, `CommandLineArgs.java`, `Annotation.java`, `Parameters.java`, and we will have to create a new class `RunIn.java`. In `Parameters.java` we will have to add a variable to store the default environment variable or the environment variable set by the user. In `CommandLineArgs.java`, we will have to add another optional parameter that will allow the user to specify the environment that the tests are being run in. We will have to modify `Configuration.java` to add the `RunIn` method to the list of possible TestNG methods.

The patterns that the current system use are Chain of Responsibility, and Singleton. The current system uses a chain of Responsibility to get the user input, then set up the test suite, run the tests, and finally output the results. Another pattern the system utilizes is the singleton pattern, the `Parameters` class instantiates a singleton object that holds all of the parameters needed by `TestRunner`, and `TestClass`.