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### **Analysis of existing code:**

If we use a new GUI to allow the user to see test results and rerun specific test suites, then the current code base will work extremely well for this purpose. The existing code already holds the results and then converts it to html for the web based GUI. It would, as far as I can tell, be fairly simple to add another parameter to the command line interface and add the GUI builder while maintaining separation of concerns. This method of building a GUI from which to output results and be able to rerun specific test suites would also be much easier to implement since the system will stay up in an idle state while the GUI is being presented. This allows the system to quickly and simply instantiate a new TestRunner with only the suite the user desires to rerun.

If we attempt to update the web based GUI to accomplish this feature, then it becomes much more complicated. The current testNG system runs the tests and ends. The system outputs the results to an html file which can be viewed from a web browser, which is extremely visually appealing as well as easy to understand. However, I expect difficulty in adding the rerun functionality to this code since it would have to be able to start and set parameters to allow testNG to rerun the test. Another minor difference will be that it won't update the current GUI. You will have to rerun the entire code set. This could be a annoying if you have immense test sets. The current test set could easily be edited to rerun the entire test set from the web page, but not being able to update the portions of the GUI that are changed by the rerunning of a specific test suite reduces the usefulness of this change.