

# Project Report Template

## Basic Testing Compliance (30%)

Provide evidence that what you proposed for basic testing has been done. Direct links to code showing your tests added are best, along with a link showing what the file looked like before you started. **You should have at least one link per capability.** If your tests for a capability are split up among multiple files, or otherwise ordered in a manner that is not immediately obvious, you should provide multiple links. Overall, you should make it as easy as possible for me to come to the conclusion that you've done everything you planned to do for basic testing.

So what if something is missing? Be explicit about it, and just flat-out say you didn't do something. Be sure to tell me why it's missing (e.g., ran out of time, more complex than expected, arguably out of scope, etc.).

As a reminder, it's better to cover everything you planned to do shallowly, than cover only part of what you planned to do deeply.

The points here reflect how easy this section is to follow, and the quality of the evidence you provide. The actual project scoring is independent of this. For example, if you say "I did nothing for basic testing.", this would receive full credit for the report, but there would be no credit for basic testing on the project implementation.

If your basic testing included code coverage, you should report any code coverage improvements here.

## Advanced V&V Compliance (30%)

Just like Basic Testing Compliance, but with your proposed advanced V&V. If your advanced V&V included mutation analysis, you should report any mutation analysis improvements (i.e., more mutants killed) here.

## Surprises and Challenges (10%)

Did you encounter any surprises in this project? What sort of challenges did you hit? Overall, I want to know about anything you stumbled on. If you truly didn't get surprised, it's ok to say so.

## Evidence of Software Improvement (caps at 30% bonus on report)

This section is entirely bonus, and can be skipped if designed. Provide some sort of evidence that your testing efforts had some sort of impact on the software. This can mean:

- Bugs revealed in the system (5% bonus on report total if only you think they are bugs; 30% bonus on report if you report the bug to developers **and they agree**)
- Changes being accepted upstream to a project (30% bonus on report)

- (If your basic/advanced V&V did **not** include it) measured improvements in code coverage (5% bonus) or mutation analysis (10% bonus). If both coverage and mutation analysis is performed, it's 15% bonus.

### **Known Testing Weaknesses (20%)**

What in your testing could have been improved? This is beyond simple compliance. Now that you have a much firmer understanding of V&V than when you started, what would you do differently?

### **Lessons Learned (10%)**

What have you learned from doing this project?