

CIS 640 – Software Testing

Final Project Phase 3 – Black Box Testing

This phase of the final project will involve white box testing the product your team chose. You have researched the product and tested the specification in order to get a good understanding of the goals and needs from the stakeholders. Due to technology used for the product, you will need to adjust techniques/approaches in order to test. Below are the minimum guidelines for this phase.

1. **Each member of the group must pick one black box testing technique.** Depending on the software you choose, each member should be utilizing a different technique or strategy. You may still use tools to assist with this phase, but you should not be doing any white box testing at this point.
2. Based off your results of phase 2, any new development from the project, and the techniques you chose for phase 3, expand/modify your test cases. You should find that you might need to add more as your focus has shifted to black box testing. Your submission should clearly list all test cases created based on the techniques you chose or tests you created in the process of testing. Test cases should have an ID, name, have a description, and a set of steps to take for the test (i.e. anyone of your team should be able to reproduce every test). Any code/automation written should also be included as part of your submission.
3. Depending on your techniques or strategies, you may have additional documentation/writing.
4. Any bugs found in testing should have a formal bug report associated with it. This report should include an ID, title, summary, location, screenshots if applicable, steps to reproduce the bug, expected results, and actual results. If the CIS 643 team maintains a repository (which each should already), you should request access so you can submit bug reports as part of their issue tracker. If they do not have one, you should submit the reports developed for this step to the team via email at least.
5. After completing your tests, write a minimum half page (single spaced, this should be expanded more based on the number in your group) executive summary that describes your choices of your techniques and tools and how they impacted your testing. If you are working with a group, your summary should include a discussion on how different members using different techniques affected the testing of the software (benefits/cons?). This summary should also give a review on bugs you found, their importance, and why the developers should worry about fixing them.
6. If you have not already this phase, you should be meeting with the CIS 643 team to share/discuss your findings.