

Jacob Peters

1)

a)

Black Box	White Box	Grey Box
No knowledge of how the system works is required. You can interact with the UI and view the outputs.	Knowledge of the code and access to knowing how it works is required.	Partial knowledge of the code is required.
Code is tested based off of what is expected to happen from given inputs.	Code is tested to determine the ability of the internal workings of the system.	Code is tested based around higher level data flow and database diagrams.

b)

Testing Type	What Do We Test	Tools We Use
Content Testing:	Uncover Syntax and semantic errors presented to the user.	Tools to measure user experience: number of errors made because of the UI, time to complete a task, etc.
Interface Testing:	In the long term, we are testing the usability of the UI.	Use-case navigation for UI elements. UI layout tests on multiple setups.
Navigation Testing:	Whether the different actions lead to their anticipated outputs.	Use-case diagrams
Security Testing:	On the ability for unauthorized access to the WebApp to get through	
Performance Testing:	Whether the characteristics meet the expectations of the users.	Usability models and pre-use and post-use questionnaires for user feedback.

Configuration Testing:	To test different client and server configurations.	Server side: configuration test cases for different projected server layouts. Client side: different configurations of a mixture of hardware and software layouts.
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2)

calcTest.java