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Outline

1 Different types of testing.

- Overview
- List of types

2 Suggested Tests

- Functionality Testing
- Useability Testing
- Interface Testing
- Compatability Testing
- security and performance testing

3 Questions.

The different types of testing.

I've done some research...

... Well, I googled it at least! I was thinking about a way of testing everything that was reliable and worked for all the different parts of the application all in one.

As it turns out we should probably test each part of the program in a way that suits that specific part.

A list of different types

Courtesy of <http://www.softwaretestinghelp.com/>

- 1 Functionality Testing
- 2 Usability testing
- 3 Interface testing
- 4 Compatibility testing « This is probably irrelevant.
- 5 Performance testing « These are probably
- 6 Security testing « both just for wow.

Testing the Functionality

- Now, I took this to mean testing the backend.
- Testing the code that makes the application do something useful.
- This is where JUnit might *actually* be of some use. We might use it in a fashion like Richard Shipman described in his lecture today (15/10).
le. write the tests and then develop to make sure the tests are fulfilled. (Maybe with some overlap to allow development to begin immediately.)
- Other useful tests might be Test Tables and manual testing.

Testing the Useability.

- I took this to mean largely testing the UI.
- making sure all the links are intuitive.
- Making sure the application isn't too complicated for normal human beings.

How?

For this I think that testing with real people is going to be very important. Preferably people who have never seen the program before.

Making sure the UI designers understand what other people not in our group see will probably help.

Testing the interface.

- Largely the same as Useability testing (I struggled to see any difference at all).
- Google define = testing the human interaction of a product
- we run command-line tools, automated web browsers, or something else automatic...
- See <http://seleniumhq.org/> (automates web browsers).
- I thought testing in different web browsers might be important here. (see <http://browsershots.org/>)

Testing compatibility.

My understanding

While this type of testing is probably referring to checking it works on all browsers or the server runs in all places. Most of this task is taken away because of the fact Java is multiplatform. Also I have covered the browser differences in the previous slide.

- I propose we use this title as a way to test that the server will interact with the other groups servers.
- I couldn't think of a way to test this until we have defined something to test it by. ie. the method of communication between servers.

Testing for security and for performance.

While these are both important, we have been told that we should not be concerned about security. I think it's still good practice, so we could run a few simple automated tests. (See Nessus on <http://www.tenable.com/>).

Performance is not likely to be an issue, and we are limited with our platforms and resources etc. So we can leave this for later if appropriate, I think.



Questions?

Are there any questions?