1 Outlook

Refactoring: Group 1

We see many possibility's and improvements for in the future. Not for the reason that what we did was bad, but we believe that we made a start, a begin, to take back the control and overview of the project while even give the options for extending the BW4T.

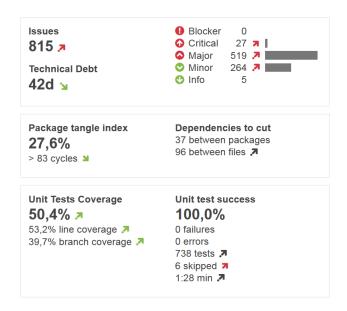
Possibility's

Please take a look at the image below. This is an image taken of sonar which shows certain metrics of the BW4T-code. We will explain some improvements based on this.

• Testing: We started off course with 0,0% test code and have now reached a 50,4% coverage. While this is a great step forward, there are still a lot of classes/methods untested or test are not complete. Sometimes it was impossible for us to check a complete class. This had 2 reasons. 1: To complex to create a complete environment to test a simple method. 2: PowerMocking was not possible.

PowerMocking is a systems that enables testing of static/ final/private methods. It's a extension of *Mockito* that uses previous versions of *java*. While we use the newest version we aren't able to use PowerMocks. This makes it impossible to test many code.

- Issues & Technical Debt: At this moment there are 815 issues and we have a debt of 42 days. This is a lot and sometimes it's questionable if you should fix all the issues to lower the debt.
- Decoupling: There are still to many dependencies in the project. There are 37 between packages and 96 between files. This also results in a Package tangle index of 27,6% (83 cycles).



Strategy

- Testing: Start with looking for a way to create an simple *environment* to test the big classes like *server* and *client*. Also try to get PowerMock running (by waiting until it's becomes compatible, or finding another method). Make sure to continue testing!
- Issues & Technical Debt: Issues or divided in Blocker, Critical, Major, Minor and Info. Make sure there're no Blocker and Critical issues and took at least a look at the Major ones. This way you'll waste not to much time fixing issues compared to extending the code.
- Decoupling: With *Sonar* and *Stan* you can visualize the dependencies. When you have an overview you can decide whether to change the class/package and try to cut dependencies. Sometimes restructuring will be needed.