

Comp285/Comp220

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Team working issue management and version control

When working as a team, one critical service you need is to be able to assign work, know who is doing what and when. The two most widely used tools to help you manage this process are issue management tools and version control systems.

Issue control allows you to assign every single little task, which would be the development of a use case, fix of a bug or even setting up web site hosting. Any task that needs attention can be registered with the issue management system, assigned to members of the team and then tracked and monitored. So for example we can see if a bug has been fixed and or tested for any given release.

The version control system allows everyone who works on the code to have access to the same code base and can make changes safely and security.

Getting started with issue management

There are a great range of issue management and project management tools to help you keep your project on track. These allow you to log tickets (for outstanding bugs and other development work) and assign work to people in your team. They also help so you can keep track of what needs doing and who is responsible for what.

You can get free online issue management software from JetBrains, it is called

<https://www.jetbrains.com/youtrack/>

The offering here is a lot more detailed than just issue tracking and includes a lot of tools to allow you to manage the whole development process (including running a SCRUM lifecycle) but for our purposes we will focus on issue management and integration for source code control.

There will be a lecture on issue/big management, but it is important that you get something started as soon as possible for your group software project. So get signed up, create a project, get people signed up and into teams. As soon as you have people in teams you can use this to drive the issue handling for your project.

Integration with your repository

There are two directions of integration, from the version control system log to the issues management system and from the issues management system through to the version control repository. In this document we will only be considering git hub only, as youtrack is very easy to integrate with git hub. As long as you have a git hub account, you just need to pick the option for VCS integration.

The other thing we want to do, is to be able to go from our version control repository and quickly open up the relevant issue. There is a plug for Chrome in called, commit issue linker, by adding this in, Chrome will automatically identify the git hub log as references to youtrack.

<https://blog.jetbrains.com/youtrack/2016/05/adding-youtrack-issue-links-on-github/>