Subject: Re: [LANDIS–II Developers] GitHub – checking out (cloning) code
From: Jimm Domingo <jdomingo@green-code.com>
Date: 7/15/15, 7:34 PM
To: landis-ii-developers@googlegroups.com, Alexander.Vyushkov@nd.edu

As Brian & Alex both noted, a branch in a Git repository applies to the whole repository. This applies to tags too -- they are repository wide in Git. So in the Extensions-Output repository, there's no way to tag a single extension in it, or create a branch for just one extension.

While a Subversion repository can contain multiple projects -- each project folder has "trunk", "branches" and "tags" subfolders -- a Git repository cannot. Each project needs its own Git repository.

GitHub provides a simple on-line tool for importing an individual project from a multi-project Subversion repository into its own Git repository. With this tool, a developer simply enters the URL to the project's folder in the Subversion repository, and this tool performs a smart import.

For example, Alex and I just did it successfully for 3 different projects:

- the Land Use extension
    - Subversion project : http://landis-extensions.googlecode.com/svn/exts/land-use/
    - GitHub repository : https://github.com/jimm-domingo/land-use
- the Software Development Kit (SDK)
    - Subversion project : http://landis-extensions.googlecode.com/svn/sdk/
    - GitHub repository : https://github.com/Baguage/sdk

- the LANDIS–II model itself

    - Subversion project : http://landis-extensions.googlecode.com/svn/model/
    - GitHub repository : https://github.com/jimm-domingo/model

As one can see perusing these Git repositories:

- the project's trunk became the Git master branch
- all the Subversion branches are now available on the Git "branches" pull-down menu
- all the Subversion tags were imported as Git releases

All the commit history for each Subversion project was imported, and therefore, is available for on-line browsing. And the project's history is completely contained in each clone made of the project's Git repository.

Finally, it's possible to transfer ownership of git repositories. So eventually, these single project Git repositories can be transferred to the LANDIS–II Foundation as time permits. Meanwhile, developers on each project can continue collaborating before the transfer.

Jimm

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