

Using Subversion with Project Hosting on Google Code

Team: ?

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This is just a short tutorial about Subversion and Google Code, it is not a Subversion detailed guide. For those who want to master Subversion and TortoiseSVN, please read this book

<http://sourceforge.net/projects/tortoisesvn/files/Documentation/1.6.5/TortoiseSVN-1.6.5-en.pdf/download>

1. Requirements

Before we start, we need to prepare some stuffs

- a. A subversion client

There are many of them, in this case I used **TortoiseSVN**, download and install it on your computer

<http://tortoisesvn.net/downloads>

- b. A Google Account

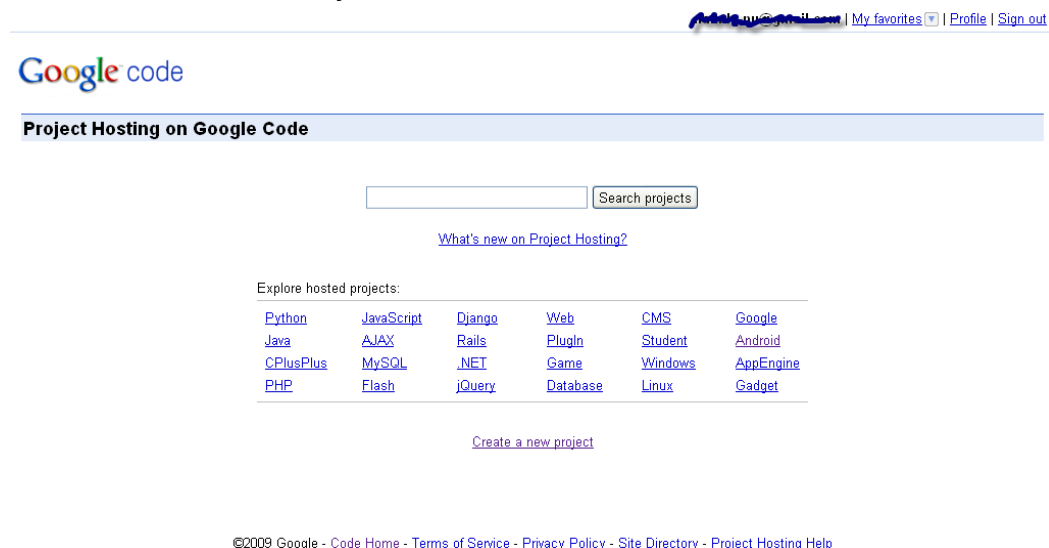
We need a Google Account to put our project on Google Hosting. If you do not have a Google Account already, create one

<http://www.google.com/accounts/NewAccount>

2. Create your project on Google Hosting

- a. Go to: <http://code.google.com/hosting/createProject>

Click on *Create a new Project*



- b. Fill in your project information, notice that **Version control system** is **Subversion**
Click on *Create project*, you will be redirected to your **Project Home**

uPorta@gmail.com | My favorites | Profile | Sign out

Google code

Search projects

Create Project

Project name:

Project summary:

Project description:

IU uPortal

Version control system:

Source code license:

☐ Use a separate content license:

Project labels:

uPortal		

[Add row](#)

Project name must start with a lowercase letter, followed by lowercase letters, digits, and dashes, with no spaces. This will be part of your project's URL and cannot be changed later.

Project summary will be shown whenever the project's name is displayed.

Project description is the main content of your project's home page. You may use [wiki markup](#).

Version control system selects the type of your project's repository. [Learn more.](#)

Licenses determine how others may build upon your work. Code and documentation may be distributed under separate licenses.

Project labels help classify your project so others can easily find it or browse projects by label.

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- c. Go to tab **Administer > Project Members**

Add owners, committers, contributors by using their emails. Their accessible level to project depends on their roles. Click **Save changes** to finish

uPorta@gmail.com | My favorites | Profile | Sign out

testuportal

Search projects

[Project Home](#) | [Downloads](#) | [Wiki](#) | [Issues](#) | [Source](#) | [Administer](#)

[Project Summary](#) | [Project Members](#) | [Downloads](#) | [Wiki](#) | [Issue Tracking](#) | [Source](#) | [Tabs](#) | [Advanced](#)

Project members

Project owners:

Project committers:

committer1@gmail.com
committer2@yahoo.com

Project contributors:

Instructions:
Specify each project participant by his or her Google Account email address. Each person must have already created a Google Account with that email address.

Separate addresses with commas and/or newlines.

Project owners may make any change to this project.

Project committers may work in the project, but may not reconfigure it.

Project contributors start with the same permissions as non-members, but their role in the project is visible.

Additional permissions can be granted to committers and contributors on the project's [people](#) sub-tab.

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d. Go to tab **Source**

Find the URL of repository, it is something like this line

svn checkout <https://testuportal.googlecode.com/svn/trunk/> testuportal --username xxxxx

In this case, URL of repository is <https://testuportal.googlecode.com/svn/trunk/>, we will use that URL in step 3

The screenshot shows the Google Code project page for 'testuportal'. At the top, there's a navigation bar with links: Project Home, Downloads, Wiki, Issues, Source (selected), and Administer. Below this is a 'Checkout' section with links for Browse, Changes, and a search bar. A 'How-to' tip explains how to explore the source code. The 'Command-Line Access' section provides instructions for using HTTPS and HTTP, with a code block showing the svn checkout command. The 'GUI and IDE Access' section mentions that the repository can be accessed using various client programs. At the bottom, there's a status message about repository quota and a footer with copyright information.

testuportal
uPortal

Project Home Downloads Wiki Issues **Source** Administer

Checkout | Browse | Changes | Search Trunk | Request code review

How-to: Explore this project's source code by clicking the "Browse" and "Changes" links above. [hide](#)

Command-Line Access

If you plan to make changes, use this command to check out the code as yourself using HTTPS:

```
# Project members authenticate over HTTPS to allow committing changes.  
svn checkout https://testuportal.googlecode.com/svn/trunk/ testuportal --username xxxxxx
```

When prompted, enter your generated [googlecode.com password](#).

Use this command to anonymously check out the latest project source code:

```
# Non-members may check out a read-only working copy anonymously over HTTP.  
svn checkout http://testuportal.googlecode.com/svn/trunk/ testuportal-read-only
```

GUI and IDE Access

This project's Subversion repository may be accessed using many different [client programs and plug-ins](#). See your client's documentation for more information.

This project is currently using approximately 756 bytes (0.0%) of its 1024 MB repository quota.
You can [reset this repository](#) so that svnsync can be used to upload existing code history.

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e. Find below line and click on the link

When prompted, enter your generated [googlecode.com password](#).

On the redirected page, you will see your GoogleCode.com password; write down it to somewhere in case you need; we will use that password in next step.

The screenshot shows the 'GoogleCode.com Password' page. It displays the user's password as 'pv7CK6mh7qy5' and has a 'Regenerate' button. Below this is the 'User Preferences' section, which includes 'Privacy' settings (showing email address and updates), 'Issue change notification' (with checkboxes for email notifications), 'Source code review comments notification' (with a checkbox for email notifications), and 'Source code browsing' (with a dropdown menu for checkout instructions). A 'Save preferences' button is at the bottom.

Google code

My Profile Updates Settings

GoogleCode.com Password

Your googlecode.com password: [pv7CK6mh7qy5](#)

[Regenerate](#)

This password is used by project members when checking out or committing source code changes, or when using command-line tools to upload files to the project "Downloads" tab.

User Preferences

Privacy

☐ When I participate in projects, show non-members my email address as "namdq...@gmail.com"

☐ Hide updates by me from other users. [Learn more](#)

Issue change notification

Whenever an issue is changed by another user, send me an email:

☒ If I am in the issue's **owner** or CC fields.

☒ If I **starred** the issue.

Source code review comments notification

Whenever comments are added by another user, send me an email:

☒ If I **starred** the review.

Source code browsing

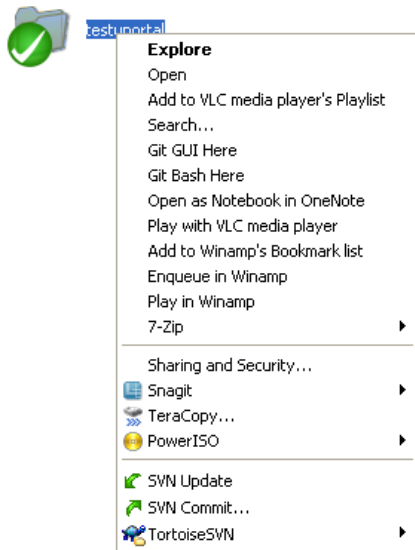
When I click the Source tab, show me: [Checkout instructions](#)

[Save preferences](#)

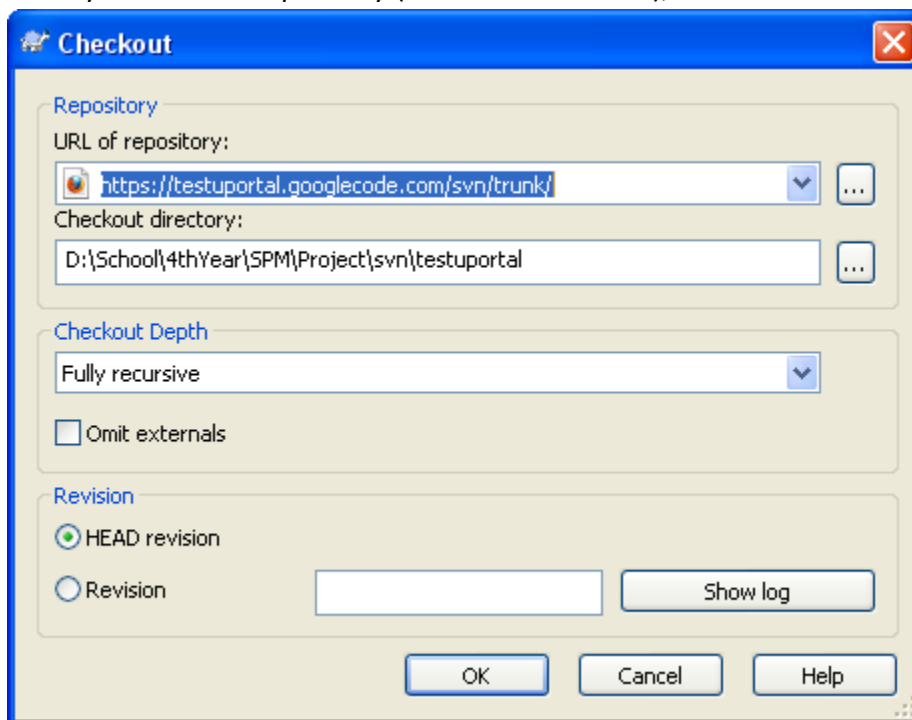
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3. Check out the repository

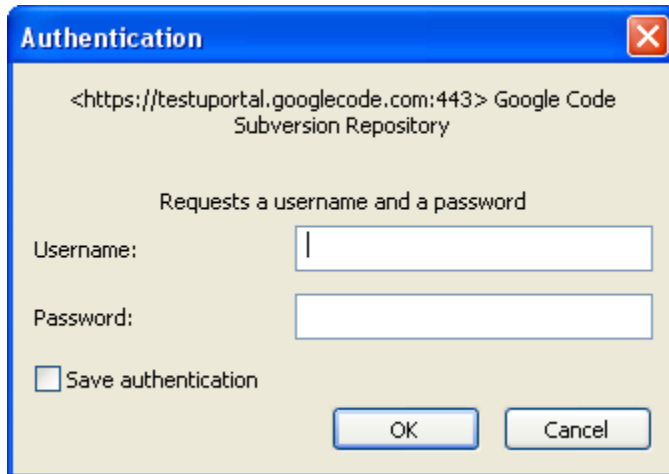
- a. Create a folder in certain place in your computer, that folder will be a Subversion working copy of our repository, I named my folder "testportal"
- b. Right-click on that folder, choose "SVN Checkout..."



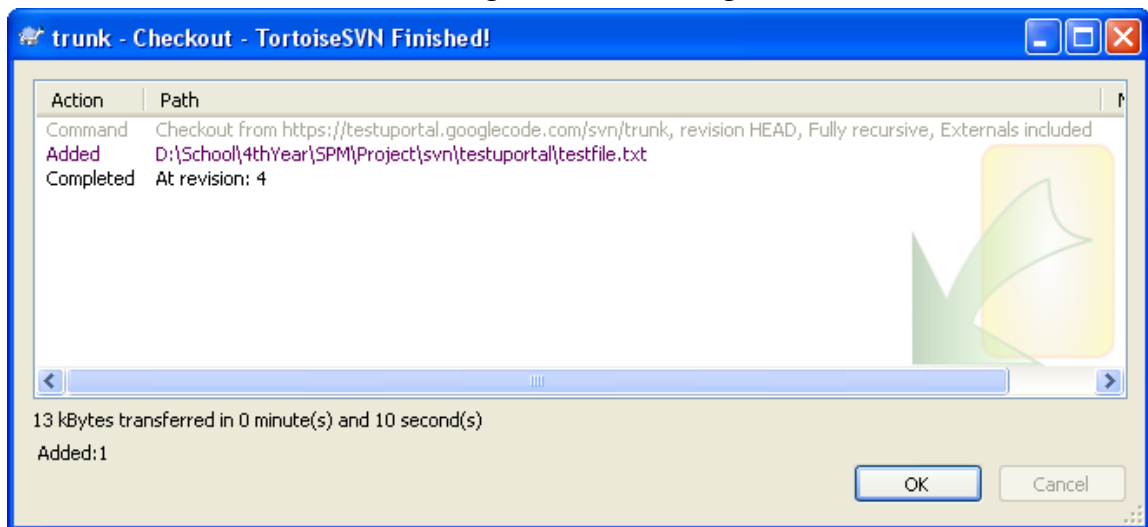
- c. Enter your URL for repository (see 2.d for the URL), click OK



- d. The Checkout dialog will appear, then you will be asked for authentication, enter your username (username is your Google Account ID) and password (see 2.e)



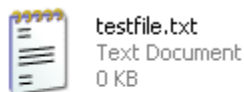
- e. Wait for seconds, the Checkout dialog will be something like this



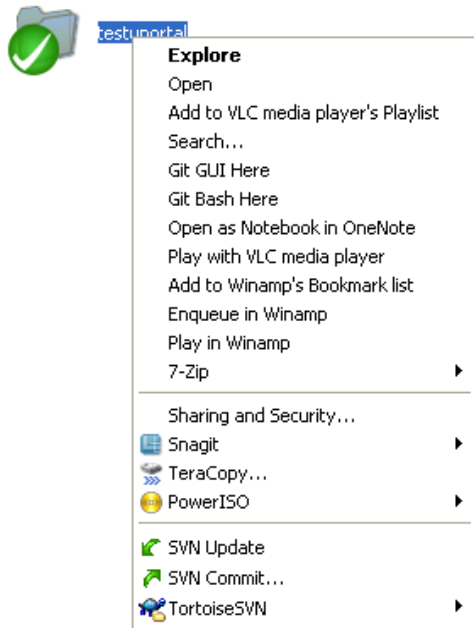
- f. Click OK, this step is done

4. Commit your changes to repository

- a. Create a certain file in your working copy, in my case it is testfile.txt



- b. Right-click on the working copy folder, choose SVN Commit

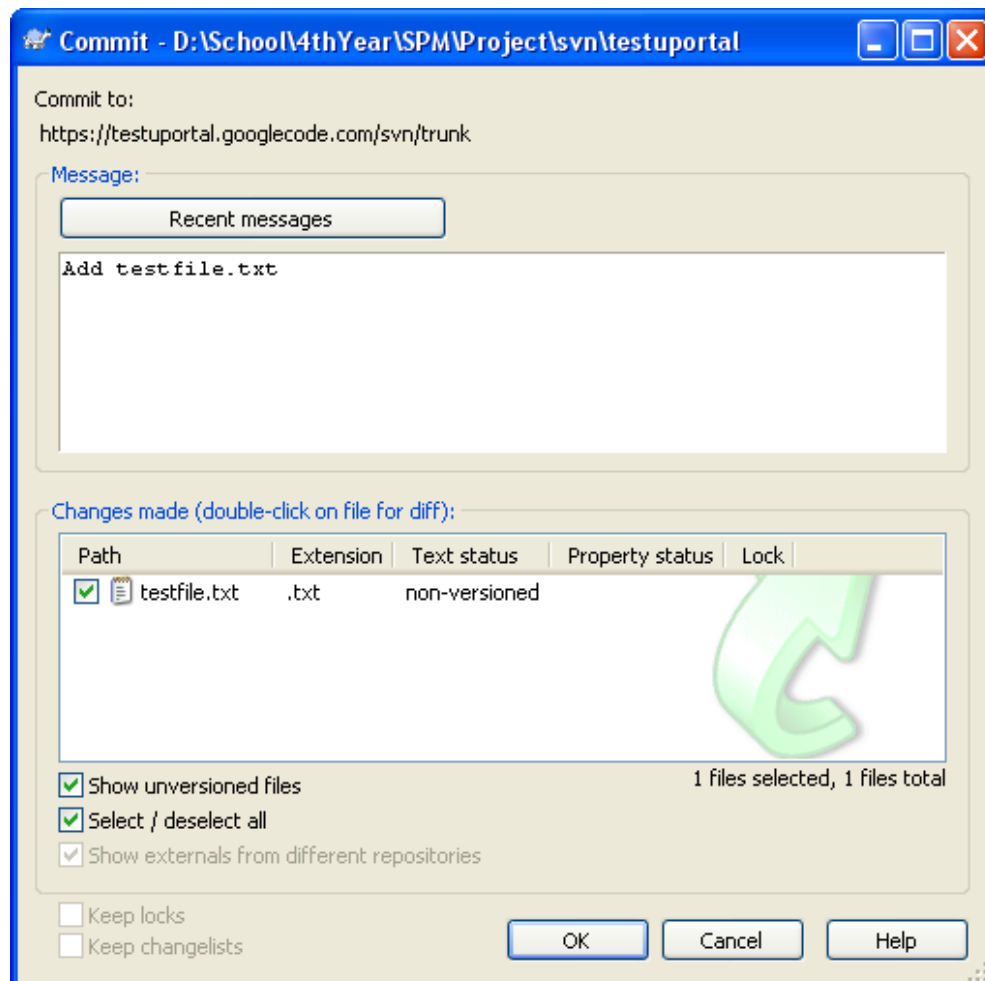


- c. In Commit dialog, fill in your information

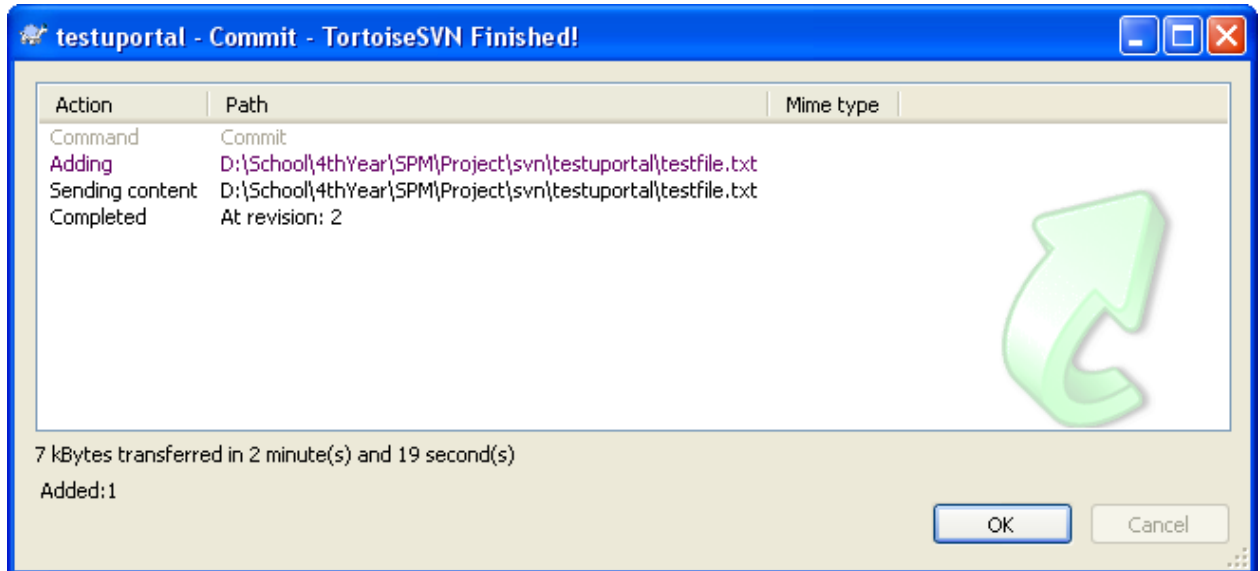
Message: describing your action

Changes made: check on the files/folders you want to make changes to repository

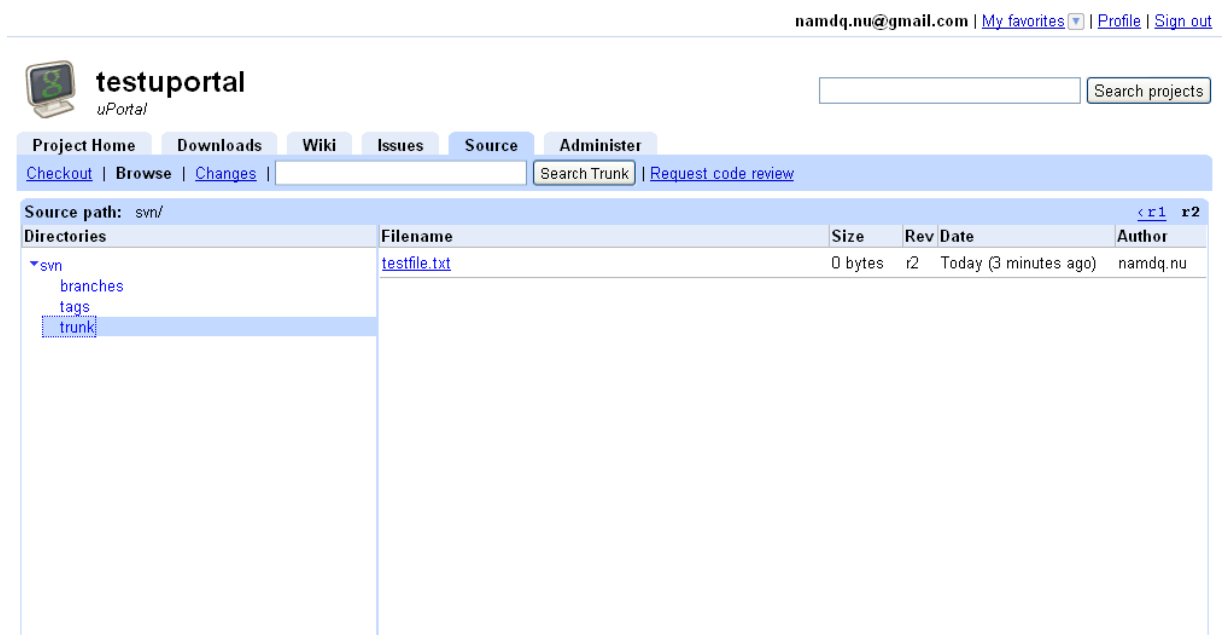
Then click OK



- d. Enter your username and password (check on Save authentication if you do not want to do this action again), click OK
- e. Commit dialog will list the actions you have just done like this



- f. Now go to your Project Home on Google Hosting and check whether your changes is made
- g. Go to tab **Source > Browse**, In **Directory** choose **trunk** (trunk is the directory that hold the main line of development), you will see the changes you have just committed (in my case testfile.txt is added)



This project is currently using approximately 323 bytes (0.0%) of its 1024 MB repository quota.

You can [reset this repository](#) so that svnsync can be used to upload existing code history.

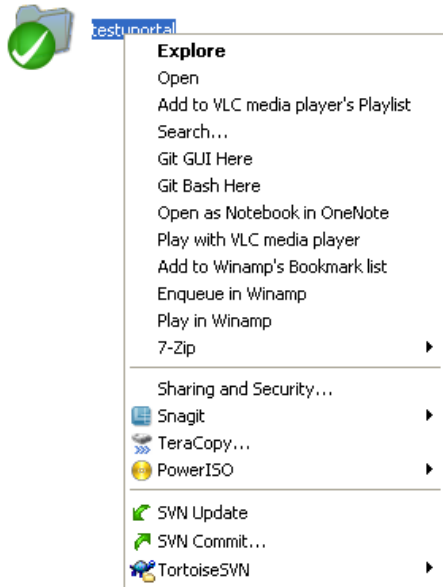
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5. Update your working copy with changes from others

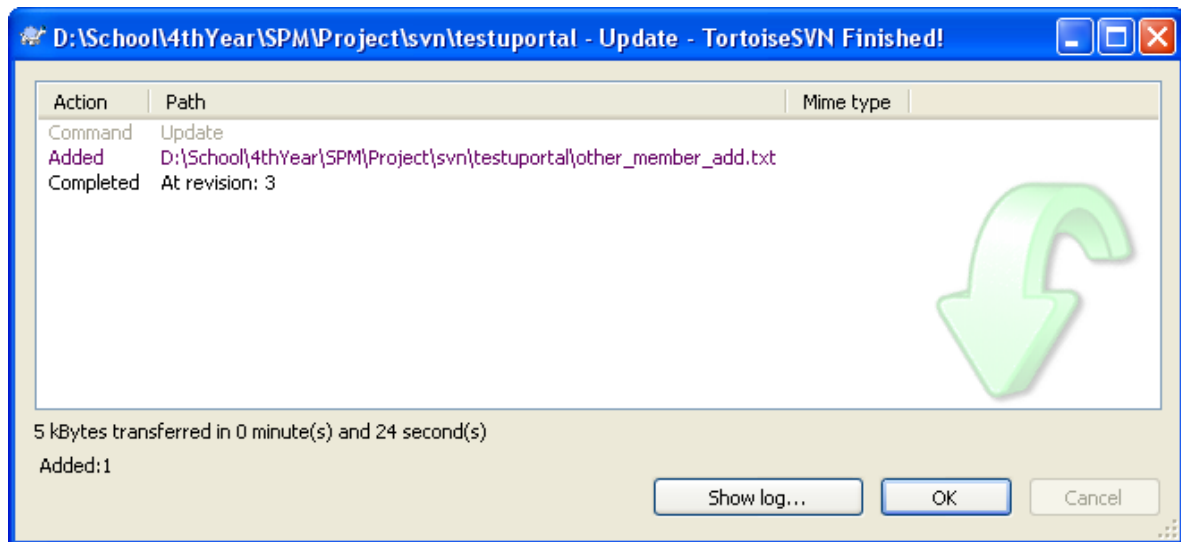
If others member of your team made changes to the repository, use SVN Update feature to update your working copy. In this case, a member of my team created a new file called **other_member_add.txt** in his working copy and committed it to repository.

- a. Right-click on your working copy > SVN Update



- b. Enter your username and password if needed

- c. Wait for seconds, Update dialog will list all the changes to your working copy



- d. Now go to your working copy directory, you will see **other_member_add.txt** is added

