Software Engineering Tools Lab Assignment No-6

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Batch: T6

- Q 1. What is Microsoft's VSS? Provide the information of VSS tool with respect to below points.
 - a. Owner/ developer
 - b. Brief information/introduction
 - c. Basic operations involved
 - d. Advantages
 - e. Disadvantages

Solution:

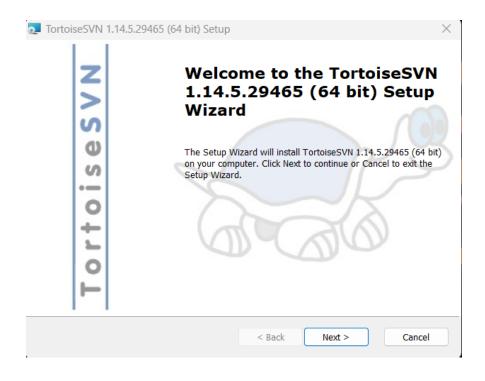
- a. Owner/developer: Microsoft Corporation
- b. Brief information/introduction: Microsoft's Volume Shadow Copy Service (VSS) is a built-in Windows feature that enables backup and restore operations by creating consistent, point-in-time copies of data. It is an API (Application Programming Interface) that allows third-party software to interact with the operating system's built-in backup infrastructure. VSS is designed to create snapshots of disk volumes on a Windows computer, while the system continues to run and modify data.
- c. Basic operations involved: The basic operations involved in using VSS include:
- Requesting a shadow copy of a volume: Applications that use VSS send a request to the operating system for a shadow copy of a specific volume.
- Preparing for the snapshot: The VSS service coordinates with the applications that are using the volume to ensure that all the data is in a consistent state before the snapshot is taken.

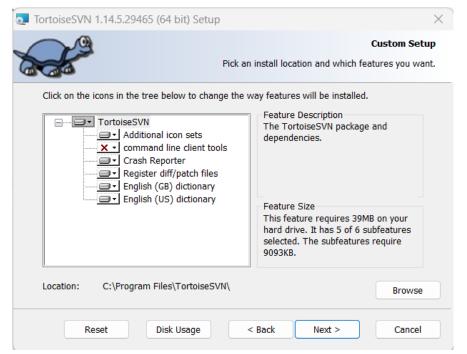
- Creating the snapshot: Once all the data is in a consistent state, VSS
 creates a snapshot of the volume. This snapshot is a read-only copy of
 the volume at a specific point in time.
- Using the snapshot: The applications that requested the shadow copy can then use the snapshot to perform backup and restore operations.
- d. Advantages: VSS has several advantages, including:
- Consistent backups: VSS ensures that all data is in a consistent state before the snapshot is taken, which helps ensure that backups are reliable and accurate.
- Low impact on system performance: Because VSS creates snapshots of volumes while the system is running, it has a low impact on system performance.
- Support for third-party software: VSS is an open API, so third-party backup and restore software can use it to create consistent, point-in-time copies of data.
- e. Disadvantages: VSS has a few potential disadvantages, including:
- Limited support for non-Windows platforms: VSS is a Windows-specific feature and is not available on other platforms.
- Limited control over backups: VSS provides a limited level of control over the backup process, which may not be sufficient for some users or applications.
- Possible impact on disk space: VSS snapshots can use a significant amount of disk space, which may be a concern for systems with limited storage capacity.

Q 2. Create a SVN repository and perform below operations on that repository using SVN. Also explain below operations.

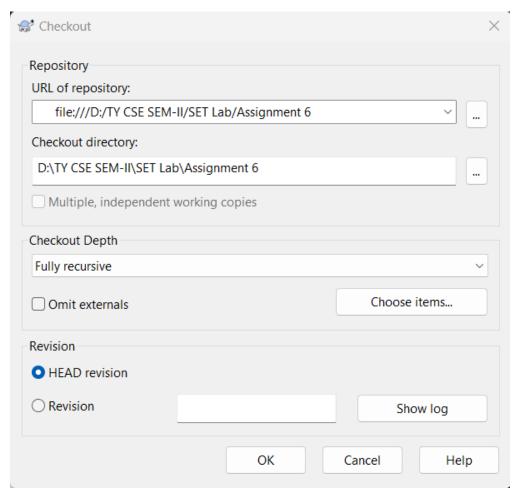
- a. Revert
- b. Import
- c. Checkout
- d. Commit
- e. Update
- f. Copy

Solution:

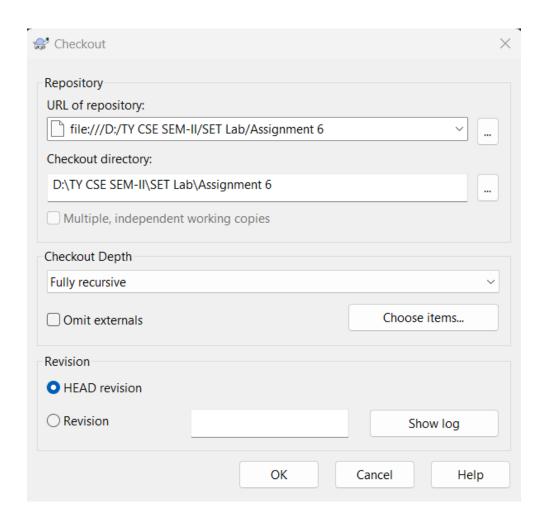


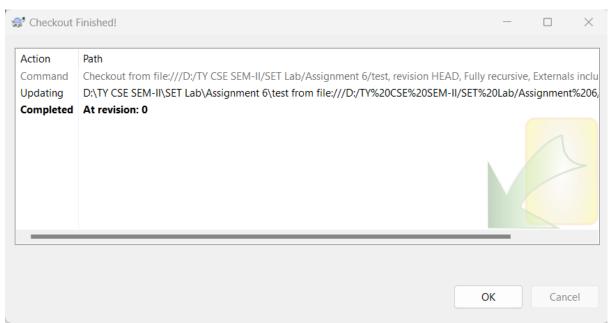




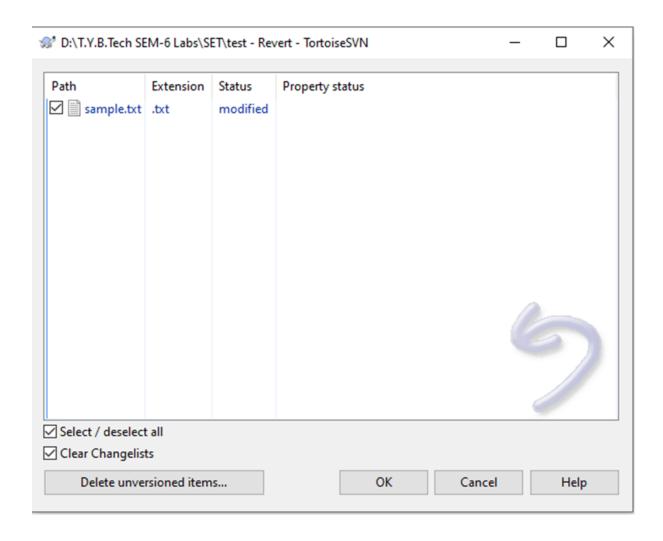


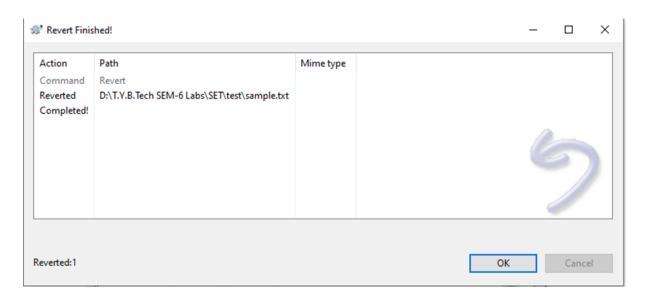
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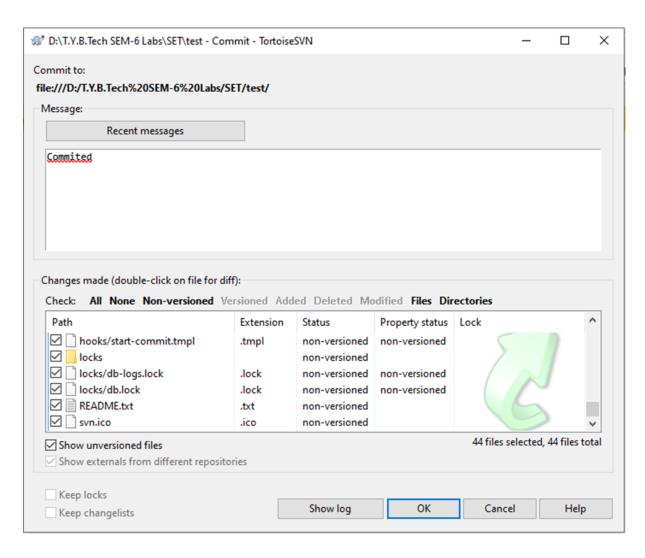


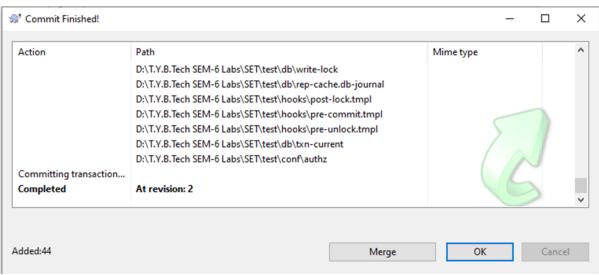
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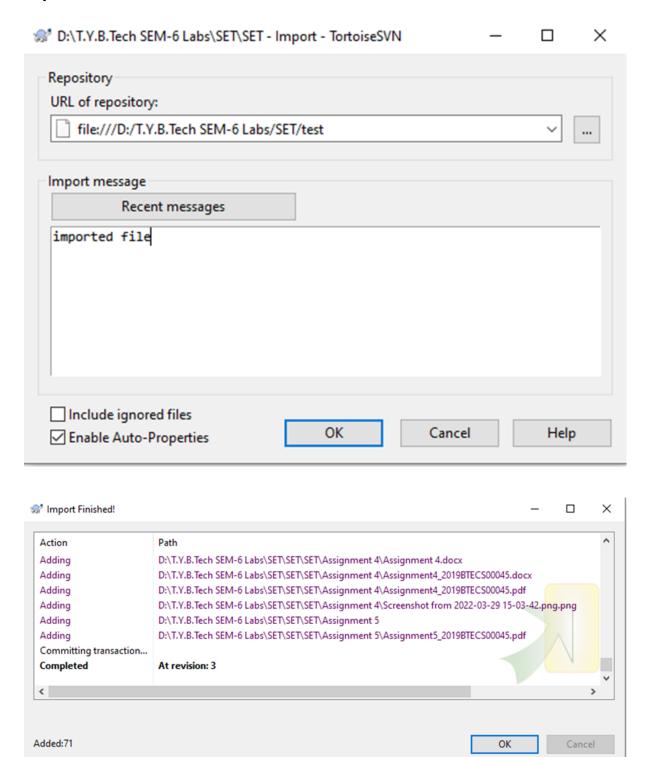


Commit:

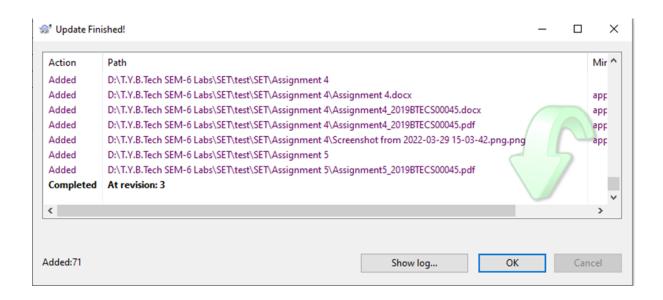




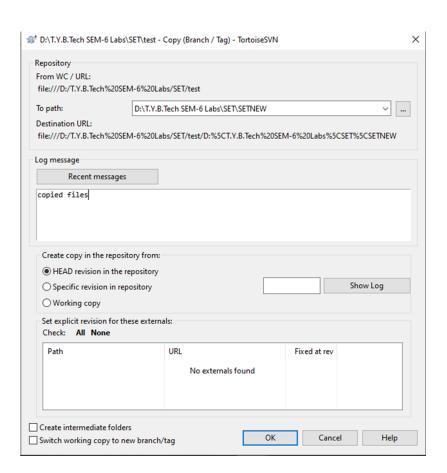
Import:



Update:



Copy:



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dicrosoft Windows [Version 10.0.19045.2846] (c) Microsoft Corporation. All rights reserved.		
C:\Users\Admin>cvsversion		
Concurrent Versions System (CVS) 1.11.14 (client)		
Copyright (c) 1989-2003 Brian Berliner, david d `zoo' zuhn, Jeff Polk, and other authors		
CVS may be copied only under the terms of the GNU General Public License, a copy of which can be found with the CVS distribution kit.		
Specify thehelp option for further information about CVS		
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