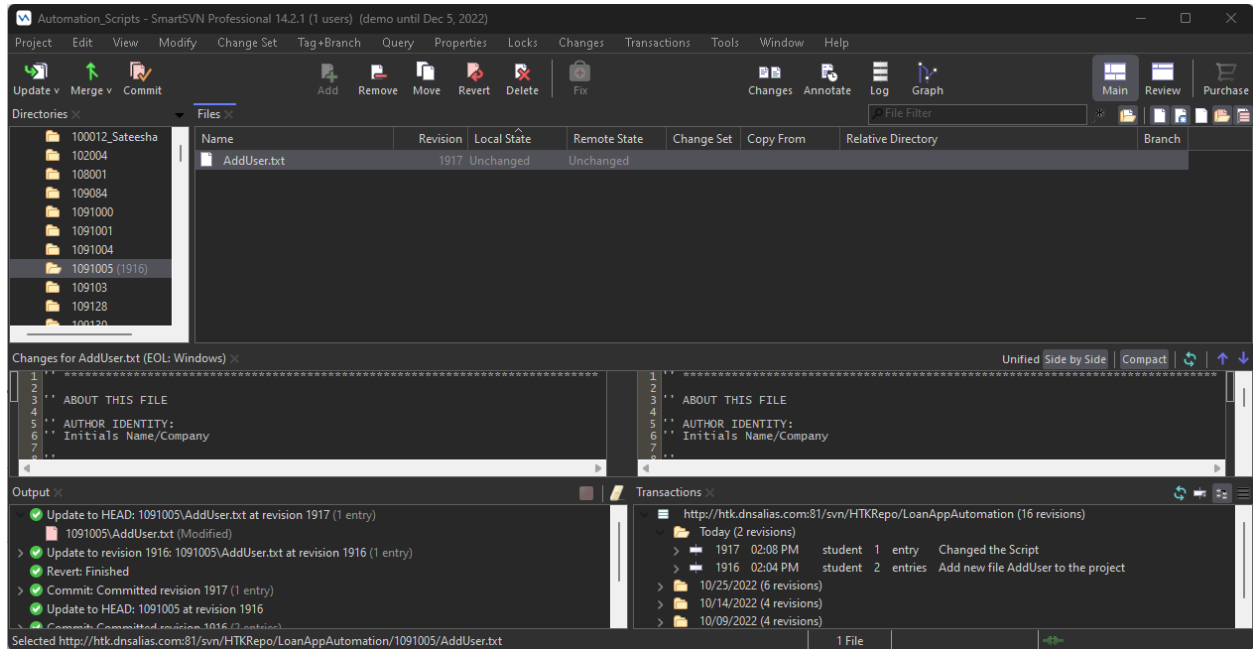


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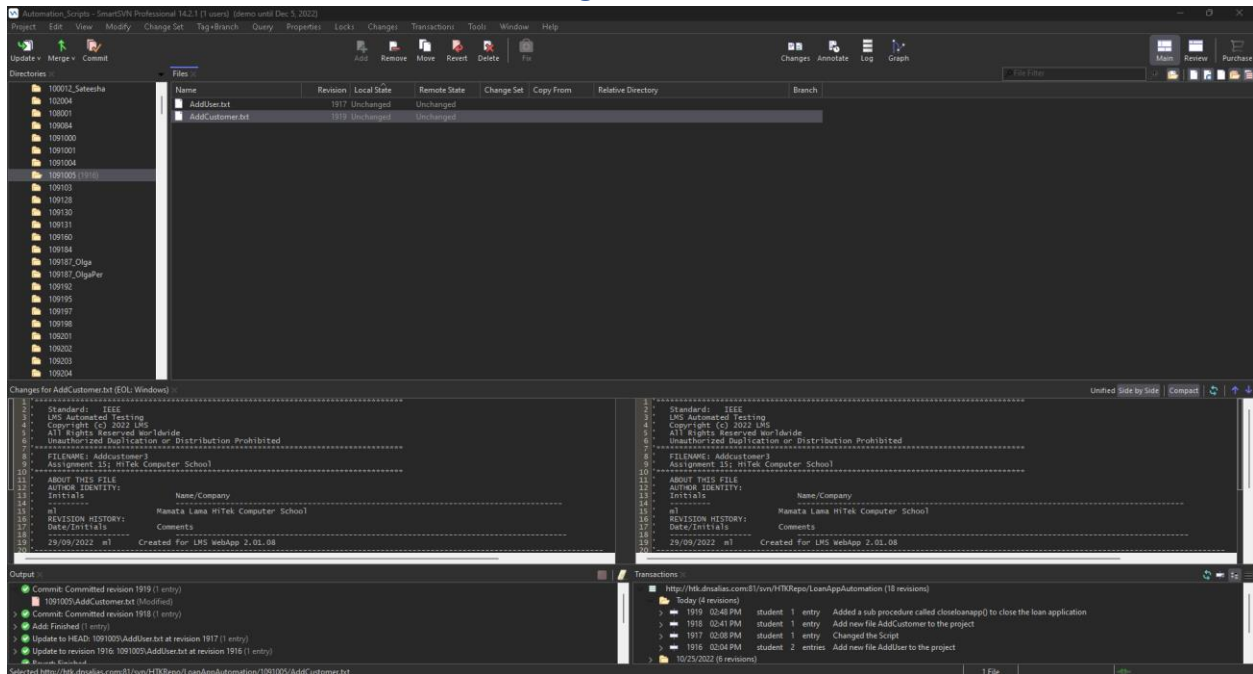
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Subversion

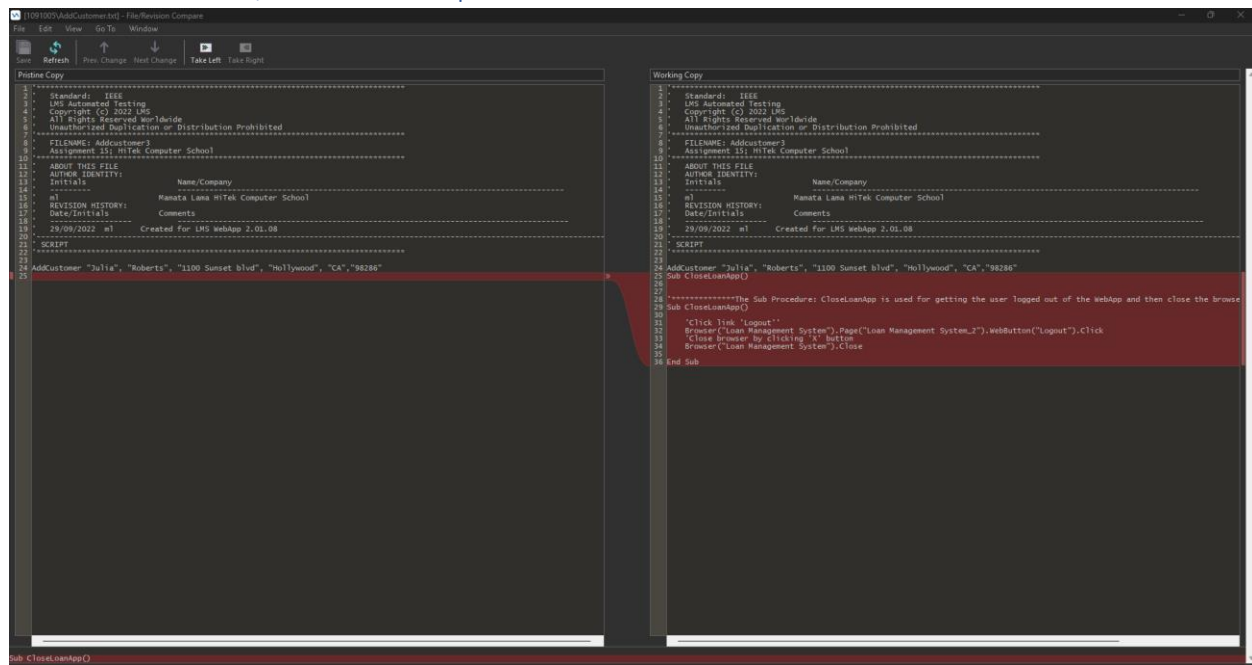
Screenshot of SmartSVN window showing versioned AddUser.txt



Screenshot of SmartSVN Window showing the versioned file AddCustomer.txt



Screenshot of File/Revision Compare screen



Git

Screenshot of final git pull command from Unit 30 for AddUser.txt

```
mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ git pull
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), 1.33 KiB | 195.00 KiB/s, done.
From https://github.com/MamataLama/st1091005
   b829bc6..24f38d0  master       -> origin/master
Updating b829bc6..24f38d0
Fast-forward
 AddUser.txt | 5 +++++-
 1 file changed, 4 insertions(+), 1 deletion(-)
```

Screenshot of adding AddCustomer.txt file to the git_project folder and executing git status command

```
mangy@DESKTOP-81TCIJK MINGW64 ~
$ cd /c/git_course/git_project

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
   AddCustomer.txt

nothing added to commit but untracked files present (use "git add" to track)
```

Screenshot of adding AddCustomer.txt to Staging area and executing git status command

```
mangy@DESKTOP-81TCIJK MINGW64 ~
$ cd /c/git_course/git_project

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
      AddCustomer.txt

nothing added to commit but untracked files present (use "git add" to track)

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ git add AddCustomer.txt

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
      new file:   AddCustomer.txt

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$
```

Screenshot of committing AddCustomer.txt into repository, using git commit -m "Mamata first commit"

```
mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
      new file:   AddCustomer.txt

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ git commit -m "Mamata first commit"
[master 52f3168] Mamata first commit
 1 file changed, 57 insertions(+)
 create mode 100644 AddCustomer.txt

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$
```

Screenshot showing differences between Working directory and Staging area, using git diff command

```
mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ git diff
diff --git a/AddCustomer.txt b/AddCustomer.txt
index 87529bb..3c30f92 100644
--- a/AddCustomer.txt
+++ b/AddCustomer.txt
@@ -33,4 +33,7 @@ Sub LaunchLoanApp()

    End Sub

+LaunchLoanApp          '~~~~~a sub procedure call~~~~~
+
+

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ :
```

Screenshot of command that shows all commits done so far after adding modified AddCustomer.txt to the repository, using git log AddCustomer.txt command

```
mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ git log AddCustomer.txt
commit 4e9450a91364cd615ca23b5062fddfc272aefb1 (HEAD -> master)
Author: mamatalama <mamatalama@yahoo.com>
Date: Sat Nov 5 01:25:31 2022 -0700

    Mamata second commit

commit 52f31685281415c6b1acba31cf54492c8524d864
Author: mamatalama <mamatalama@yahoo.com>
Date: Fri Nov 4 16:34:58 2022 -0700

    Mamata first commit

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ :
```

Screenshot of command to view the changes that were introduced with the two latest commits only, using `git log --stat AddCustomer.txt` command

```
mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ git log --stat AddCustomer.txt
commit 4e9450a91364cd615ca23b5062fddfc272aefb1 (HEAD -> master)
Author: mamatalama <mamatalama@yahoo.com>
Date: Sat Nov 5 01:25:31 2022 -0700

    Mamata second commit

AddCustomer.txt | 10 ++++++++
1 file changed, 10 insertions(+)

commit 52f31685281415c6b1acba31cf54492c8524d864
Author: mamatalama <mamatalama@yahoo.com>
Date: Fri Nov 4 16:34:58 2022 -0700

    Mamata first commit

AddCustomer.txt | 57 +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
1 file changed, 57 insertions(+)

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$
```

Screenshot of creating a new branch `mamata_lama` and running a command that showing all branches, using `git branch mamata_lama` command

```
mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ git branch mamata_lama

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ git branch
  mamata_lama
* master

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$
```

Screenshot of switching to a new branch, using git checkout mamata_lama command

```
mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ git checkout mamata_lama
Switched to branch 'mamata_lama'

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (mamata_lama)
$ :
```

Screenshot of showing new comment added on txt file and committing third and fourth commits on the new branch, using git log command

```
mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (mamata_lama)
$ git add AddCustomer.txt

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (mamata_lama)
$ git commit -m "Mamata third commit"
[mamata_lama 2335999] Mamata third commit
1 file changed, 16 insertions(+), 39 deletions(-)

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (mamata_lama)
$ git add AddCustomer.txt

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (mamata_lama)
$ git commit -m "Mamata fourth commit"
[mamata_lama 8329ab4] Mamata fourth commit
1 file changed, 2 insertions(+)

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (mamata_lama)
$ git log
commit 8329ab4492f054a699d9740657fa6f1d9717c5cf (HEAD -> mamata_lama)
Author: mamatalama <mamatalama@yahoo.com>
Date: Sat Nov 5 12:51:28 2022 -0700

    Mamata fourth commit

commit 2335999eb79940aa1a872e92fbcf0df3d21d97d3
Author: mamatalama <mamatalama@yahoo.com>
Date: Sat Nov 5 12:49:51 2022 -0700

    Mamata third commit

commit 4e9450a91364cd615ca23b5062fddfc272aefb1 (master)
Author: mamatalama <mamatalama@yahoo.com>
Date: Sat Nov 5 01:25:31 2022 -0700

    Mamata second commit

commit 52f31685281415c6b1acba31cf54492c8524d864
Author: mamatalama <mamatalama@yahoo.com>
Date: Fri Nov 4 16:34:58 2022 -0700

    Mamata first commit
```


Restoring the 3rd commit by using command git checkout with Hash (from the log)

```
mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (mamata_lama)
$ git checkout 2335999eb79940aa1a872e92fbcf0df3d21d97d3
Note: switching to '2335999eb79940aa1a872e92fbcf0df3d21d97d3'.

You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by switching back to a branch.

If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -c with the switch command. Example:

    git switch -c <new-branch-name>

Or undo this operation with:

    git switch -

Turn off this advice by setting config variable advice.detachedHead to false

HEAD is now at 2335999 Mamata third commit

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project ((2335999...))
$
```

Screenshot of switching and merging to the master branch, using git merge
mamata_lama

```
mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project ((2335999...))
$ git checkout master
Previous HEAD position was 2335999 Mamata third commit
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 2 commits.
  (use "git push" to publish your local commits)

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ git merge mamata_lama
Updating 4e9450a..8329ab4
Fast-forward
 AddCustomer.txt | 55 ++++++-----
 1 file changed, 17 insertions(+), 38 deletions(-)

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$
```

Screenshot of deleting the branch mamata_lama, using git branch -d mamata_lama

```
mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ git branch -d mamata_lama
Deleted branch mamata_lama (was 8329ab4).

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$
```

Screenshot of running git log command to display all commits, using git log -3 command

```
mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$ git log -3
commit 2335999eb79940aa1a872e92fbcf0df3d21d97d3 (HEAD -> master)
Author: mamatalama <mamatalama@yahoo.com>
Date: Sat Nov 5 12:49:51 2022 -0700

    Mamata third commit

commit 4e9450a91364cd615ca23b5062fddfd272aefb1
Author: mamatalama <mamatalama@yahoo.com>
Date: Sat Nov 5 01:25:31 2022 -0700

    Mamata second commit

commit 52f31685281415c6b1acba31cf54492c8524d864
Author: mamatalama <mamatalama@yahoo.com>
Date: Fri Nov 4 16:34:58 2022 -0700

    Mamata first commit

mangy@DESKTOP-81TCIJK MINGW64 /c/git_course/git_project (master)
$
```