Module 3: Git, Jenkins and Maven Integration

Demo Document - 3

edureka!



© Brain4ce Education Solutions Pvt. Ltd.

Demo – 3: Stashing, Rebasing, Reverting and Resetting

- To Create a stash of your current working directory Syntax: git stash save 'message'
- To list all the saved stashes Syntax: git stash list
- Stash list uses a stack structure to save the list

```
amr@amr-VirtualBox:~/Documents/demo$ git checkout master
Switched to branch 'master'
amr@amr-VirtualBox:~/Documents/demo$ git stash list
stash@{0}: On feat1: Saving changes made to the RepoFile
amr@amr-VirtualBox:~/Documents/demo$
```

- Saved stashes can be applied at anytime on any branch Syntax: git stash apply <stash id>
- After applying a stash it can still be accessed elsewhere because it remains in the stash

```
amr@amr-VirtualBox:~/Documents/demo$ git stash apply stash@{0}
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
(use "git checkout -- <file>..." to discard changes in working directory)
no changes added to commit (use "git add" and/or "git commit -a")
amr@amr-VirtualBox:~/Documents/demo$
```

Pop command can be used to apply the most recent stash and removing it from the stash stack

Syntax: git stash pop

```
amr@amr-VirtualBox:~/Documents/demo$ git stash list
stash@{0}: On master: Updated new stash
stash@{1}: On feat1: Saving changes made to the RepoFile
amr@amr-VirtualBox:~/Documents/demo$
amr@amr-VirtualBox:~/Documents/demo$ git stash pop
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)
  modified: RepoFile

no changes added to commit (use "git add" and/or "git commit -a")
Dropped refs/stash@{0} (4bbae06658e7435e16ea9a29f00c254526c1e788)
amr@amr-VirtualBox:~/Documents/demo$ git stash list
stash@{0}: On feat1: Saving changes made to the RepoFile
amr@amr-VirtualBox:~/Documents/demo$
```

Stashes can be deleted from the stash list
 Syntax: git stash drop <stack id>

```
amr@amr-VirtualBox:~/Documents/demo$ git stash drop stash@{0}
Dropped stash@{0} (6275777018dcd9bd801d02172bb45feb9538cebf)
amr@amr-VirtualBox:~/Documents/demo$
```

The entire stack can also be deleted using one comman
 Syntax: git stash clear

```
amr@amr-VirtualBox:~/Documents/demo$ git stash clear amr@amr-VirtualBox:~/Documents/demo$
```

Rebasing, reverting and resetting:

To Rebase a branchSyntax: git rebase <rebase branch>

```
amr@amr-VirtualBox:~/Documents/demo$ git rebase master
First, rewinding head to replay your work on top of it...
Fast-forwarded feat2 to master.
amr@amr-VirtualBox:~/Documents/demo$
```

Revert or undo the changes made in the previous commit

 New commit is created without the changes made in the other commit

Syntax: git revert < commit id>

Old commit still resides in the history

```
amr@amr-VirtualBox:~/Documents/demo$ git revert HEAD
[feat2 a50d898] Revert "revert edit"
  1 file changed, 1 deletion(-)
amr@amr-VirtualBox:~/Documents/demo$
```

- Reset command can be used to undo changes at different levels
- Modifiers like --hard, --soft and --mixed can be used to decide the degree to which to reset

Syntax: git reset <modifier> <commit id>

```
amr@amr-VirtualBox:~/Documents/demo$ git reset v1.5
Unstaged changes after reset:
M RepoFile
amr@amr-VirtualBox:~/Documents/demo$
```