GIT Mini XTR Exercises

PreRequisites

Git Installation

Unix: http://git-scm.com/download/linux
Windows: http://git-scm.com/download/linux

Mac: https://mac.github.com/

GitK Installation

Unix: sudo apt-get install git-gui gitk
Windows: should come with git installation
Mac: should come with git installation

Installation Test

command Promt : git (Command should be recognized)
command Promt : gitk (Command should be recognized)

Session 1 - Exercise1

Step1 - Glt Configuration

- git config --global user.name <name>
- git config --global user.email <email>
- git config --global color.ui auto
- git config <parameter>
- git config --list

Step 2 - Registration

• Register yourself on <u>www.github.com</u>

Step 3 - SSH Keys Generation

- Linux: https://help.github.com/articles/generating-ssh-keys#platform-linux
- Windows: https://help.github.com/articles/generating-ssh-keys#platform-windows
- Mac: https://help.github.com/articles/generating-ssh-keys#platform-mac

Session 2 - Exercise 1

- 1) Create a repository on your github account.
- 2) Create a local folder session1
- 3) Shell/Command Prompt: Go to **session1** folder and create this project mvn archetype:generate -DgroupId=com.xebia.xtr -DartifactId=git-demo
- -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false
- 4) Shell/Command Prompt: Go to session1 folder
- 5) Shell/Command Prompt: git init
- 6) Verify that .git folder is created
- 7) Shell/Command Prompt: Go to git-demo folder git add -a
- 8) Shell/Command Prompt: git commit -m "<Some Commit Message>"
- 9) Shell/Command Prompt: git remote add origin git@github.com:<<Git Repo>>
- 10) Shell/Command Prompt: git push origin master
- 11) Verify that files reached on github account via browser

Additional

- 1) Add a new file **file.txt** in the git-demo project
- 2) Make some changes to the file
- 3) Commit that file
- 4) Do git status and see the output
- 5) Modify the same file again
- 6) Do git status and observer the status

Session 2 - Exercise 2

- 1) Continue using the repository create in the previous exercise.
- 2) Create file exercise2.txt, add, commit and push it to the remote. Note the SHA code
- 3) Update the file **exercise2.txt** add, commit and push it to the remote.
- 4) Shell/Command Prompt: git revert SHA Code
- 5) Shell/Command Prompt: git push origin master
- 6) Observe the commits on the git hub repo and contents of **exercise2.txt** (They should be same as first time commit).

Additional

- 1) Edit, add, commit and push exercise2.txt 3 4 times more.
- 2) Now try to bring the **exercise2.txt** contents to the original contents.

Session 2 - Exercise 3

- 1) Clone the project from this url git@github.com:ScalaTribeIndia/session2.git in folder /home/session2
- 2) Edit the file Name.txt and enter the line "Committed by <<Your Name>>"
- 3) Commit and push this change to the repository.

Session 3 - Exercise 1

- 1) Clone the project from this url git@github.com:ScalaTribeIndia/session3.git in folder /home/session3
- 2) Create a branch from master with <yourname>.
- 4) Create one more branch **<yourname>-1** from the **<yourname>** branch.
- 5) Add 2 new files(file2.txt,file3.txt) and commits in the <yourname>-1 branch, don't PUSH.
- 3) Move to **yourname**> branch and Create a file **file1.txt** and commit it in this branch.
- 6) Visualize using GitK (youname and yourname-1 should diverge)
- 7) Now bring all the commits of **<yourname>-1** branch to **<yourname>** branch without a merge object.
- 8) Push the **yourname** branch.

Additional

11) Try Git Squash Command by making more than one commit on <yourname>-1 branch

Session 3 - Exercise 2

- 1) Clone the project from this url git@github.com:ScalaTribeIndia/session4.git in folder /home/session4
- 2) Create a branch from master with **<yourname>**.
- 3) Create another **<yourname>-1** branch from **<yourname>** branch.
- 4) Go to yourname branch and edit the "file.txt" (Don't add or commit it).
- 5) Now go to **<yourname>-1** branch (If any errors try to resolve them)
- 6) Edit the same file "file.txt" and commit the file.
- 7) Edit file "file2.txt" and commit the file (Don't Push).
- 8) Edit file "file2.txt" again and add a new line commit the file (Don't Push).
- 9) Go back to branch <yourname> branch.
- 10) Now cherry pick the first edit done on file2.txt.
- 11) Commit the <yourname> branch.
- 12) Now merge the **<yourname>-1** branch onto **<yourname>** branch.
- 13) See what happens?