

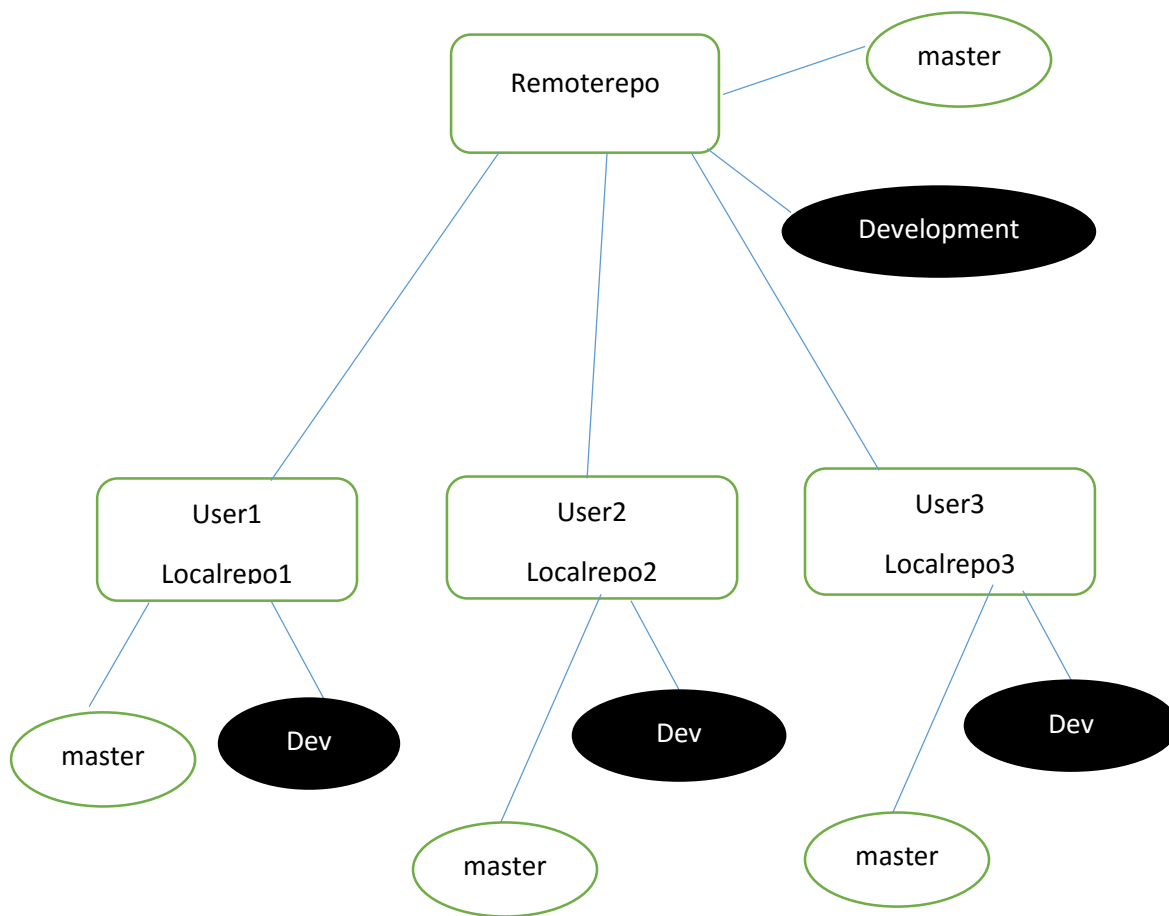
Software Methods and Tools

Assignment-9

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Git Flow Chart Diagram:



Initially created a remote repository called RemoteRepo.git using following command

`git init --bare`, by inside RemoteRepo.git directory.

Now I have created a local repository for user1 called Localrepo1 and added Tetris games files to it using following commands

`git init` (inside Localrepo1 directory)

Added Tetris project files manually inside the directory

Then adding those files to git using following commands

`git add *`, later this command user1 committed his changes and pushed it to repository.

`git commit -m "First Commit of Tetris Game Code Repository"`.

`git remote add origin file:///C:/Users/DayanandaSaraswathi/Documents/GitHub/RemoteRepo.git`

now pushing it to master branch of remote repo

git push origin master.

All right now couple of developers were added to the team they are user2 and user3.

They will clone the remote repository using following commands respectively (please go out of other user directory while executing below commands)

User2 Clone:

git clone <file:///C:/Users/DayanandaSaraswathi/Documents/GitHub/RemoteRepo.git> Localrepo2

User3 Clone:

git clone <file:///C:/Users/DayanandaSaraswathi/Documents/GitHub/RemoteRepo.git> Localrepo3.

User2 made changes to Tetris.java and pushed to origin master

git status -v using this command we can see the changed files

git add BoardPanel.java

git commit -m "Fixed an issue causing uneven increase in score of tetris game"

git push origin master

Now, user3 started working on his code he doesn't know master has been changed and without taking update he also fixed the same issue in BoardPanel.java

git status -v see user3 has changed BoardPanel.java file.

now user3 stages the file to commit and push to origin master

git add BoardPanel.java

git commit -m "User3: fixed Board panel issue in tetris game, which was causing uneven increase in score"

Now, at this point we will get an error saying we need to take update from master before pushing code to it, because master in remote is ahead of one commit than user3.

To solve this we will fetch master with remote and merge will merge the changes to local

git fetch origin

git merge origin/master

Above two command solves the problem. Now, user3 again can use push command to push his changes
git push origin master.

Now user1 will create remote development branch, as there is only one copy of master branch
So user1 will pull the new code and creates a development branch locally
git pull origin
git checkout -b development

Now to create a remote tracking branch i used following command
git push origin development

To see above changes use
git remote show origin

Now other developers start using the development branch, they can track it remotely.

git fetch origin
git checkout -b dev origin/development
Now user2 made some changes in development branch
git status -v to see modified files
Now user2 will merge with his master branch
git checkout master
git merge dev

That's how user2 got user1 code got merged into local master.
now user2 will push local master to remote using
git fetch origin
git merge origin/master
git push origin master.