Edureka Assignments

Topic: Version Control with Git

Action Items

=> Create a local git repository and move the entire code base to it

Created local git repository

```
nath@nath-N53SV:~/edureka$ mkdir sampleproject
nath@nath-N53SV:~/edureka/sampleproject$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
       git config --global init.defaultBranch <name>
hint:
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
       git branch -m <name>
hint:
Initialized empty Git repository in /home/nath/edureka/sampleproject/.git/
nath@nath-N53SV:~/edureka/sampleproject$ git branch -m main
drwxrwxr-x 3 nath nath 4096 Oct 22 18:21 .
```

Moved code base files to local working directory

Staged all file in the working directory

```
nath@nath-N53SV:~/edureka/sampleproject$ git commit -am "Commit the initial code base given for
or the project"
[main (root-commit) ccec282] Commit the initial code base given for the project
9 files changed, 198 insertions(+)
create mode 100644 css/site.css
create mode 100644 fonts/segoeuil.ttf
create mode 100644 img/cloneWhite.svg
create mode 100644 img/deployWhite.svg
create mode 100644 img/lightbulbWhite.svg
create mode 100644 img/stackWhite.svg
create mode 100644 img/successCloudNew.svg
create mode 100644 img/successCloudNew.svg
create mode 100644 index.html
nath@nath-N53SV:~/edureka/sampleproject$ git status
On branch main
nothing to commit, working tree clean
nath@nath-N53SV:~/edureka/sampleproject$
```

=> Create a new branch for a new feature you want to add to the application

Created new branch and switched to new branch from main

```
nath@nath-N53SV:~/edureka/sampleproject$ git branch newfeature
nath@nath-N53SV:~/edureka/sampleproject$ git checkout newfeature
Switched to branch 'newfeature'
nath@nath-N53SV:~/edureka/sampleproject$ git status
On branch newfeature
nothing to commit, working tree clean
nath@nath-N53SV:~/edureka/sampleproject$ ls
css fonts img index.html
```

Working on new features and committed new feature changes to the branch

```
nath@nath-N53SV:~/edureka/sampleproject$ mkdir features
nath@nath-N53SV:~/edureka/sampleproject* cd features
nath@nath-N53SV:~/edureka/sampleproject/features$ touch item1.css item2.css item3.css
nath@nath-N53SV:~/edureka/sampleproject/features$ echo "Cascade display changes" > item1.css
nath@nath-N53SV:~/edureka/sampleproject/features$ echo "Frames styles" > item2.css
nath@nath-N53SV:~/edureka/sampleproject/features$ echo "Grid and Menu selections" > item3.css

nath@nath-N53SV:~/edureka/sampleproject/features$ git add -A
nath@nath-N53SV:~/edureka/sampleproject/features$ git commit -am "New feature are now complet ed"
[newfeature b04335f] New feature are now completed
3 files changed, 3 insertions(+)
create mode 100644 features/item1.css
create mode 100644 features/item2.css
create mode 100644 features/item3.css
nath@nath-N53SV:~/edureka/sampleproject/features$
nath@nath-N53SV:~/edureka/sampleproject/features$
```

Listed all new file in the newfeature branch

```
nath@nath=N53SV:~/edureka/sampleproject/features$ ls -la

total 20

drwxrwxr-x 2 nath nath 4096 Oct 22 18:56 .

drwxrwxr-x 7 nath nath 4096 Oct 22 18:58 item1.css

-rw-rw-r-- 1 nath nath 24 Oct 22 18:58 item2.css

-rw-rw-r-- 1 nath nath 25 Oct 22 18:59 item3.css

nath@nath=N53SV:~/edureka/sampleproject/features$ cd ..

nath@nath=N53SV:~/edureka/sampleproject$ ls -l

total 20

drwxr-xr-x 2 nath nath 4096 Oct 22 18:26 css

drwxrwxr-x 2 nath nath 4096 Oct 22 18:26 features

drwxr-xr-x 2 nath nath 4096 Oct 22 18:26 fonts

drwxr-xr-x 2 nath nath 4096 Oct 22 18:26 img

-rw-r--r-- 1 nath nath 2866 Oct 22 18:26 index.html

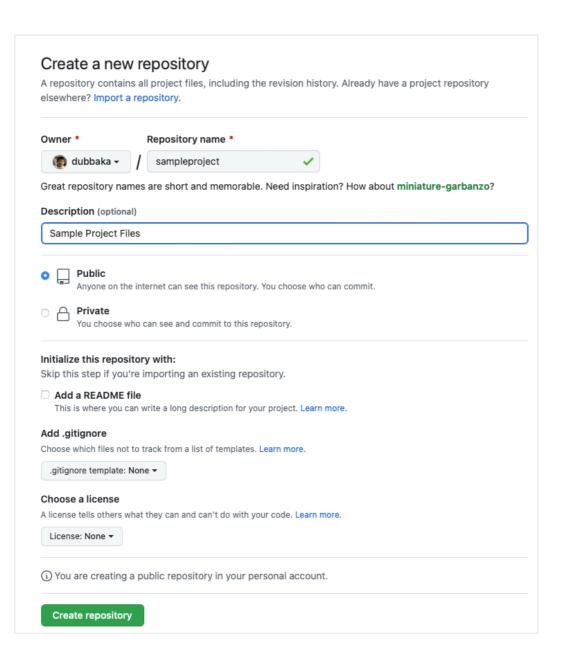
nath@nath=N53SV:~/edureka/sampleproject$
```

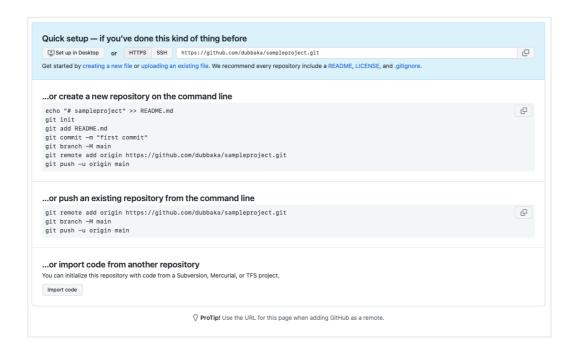
=> Merge back the created branch with the master branch

Switched back to main branch and merged new feature changes into main branch and now new feature files and folders are seen.

```
nath@nath-N53SV:~/edureka/sampleproject$ git checkout main
Switched to branch 'main'
nath@nath-N53SV:~/edureka/sampleproject$ ls
css fonts img index.html
nath@nath-N53SV:~/edureka/sampleproject$ git merge newfeature
Updating ccec282..b04335f
Fast-forward
features/item1.css | 1 +
features/item2.css | 1 +
features/item3.css | 1 +
3 files changed, 3 insertions(+)
create mode 100644 features/item1.css
create mode 100644 features/item2.css
create mode 100644 features/item3.css
nath@nath-N53SV:~/edureka/sampleproject$ ls
css features fonts img index.html
nath@nath-N53SV:~/edureka/sampleproject$ cd features/
nath@nath-N53SV:~/edureka/sampleproject/features$ ls
item1.css item2.css item3.css
nath@nath-N53SV:~/edureka/sampleproject/features$
```

=> Create a remote repository





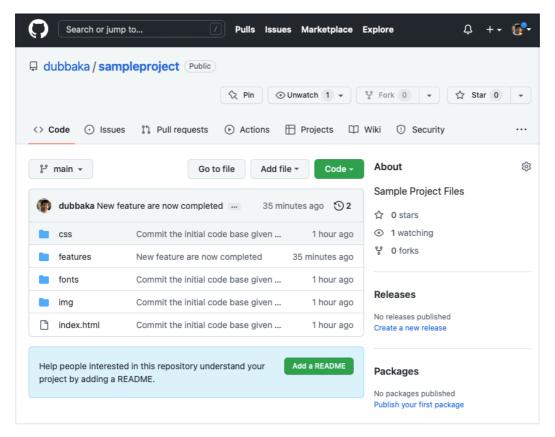
linked remote repository to local repo, Now it's ready to push the changes

```
nath@nath-N53SV:~/edureka/sampleproject$ git status
On branch main
nothing to commit, working tree clean
nath@nath-N53SV:~/edureka/sampleproject$ git remote add origin https://github.com/dubbaka/sam
pleproject.git
nath@nath-N53SV:~/edureka/sampleproject$ git remote -v
origin https://github.com/dubbaka/sampleproject.git (fetch)
origin https://github.com/dubbaka/sampleproject.git (push)
```

=> Push the local repository to company's remote repository.

```
nath@nath-N53SV:~/edureka/sampleproject$ git push -u origin main
Enumerating objects: 20, done.
Counting objects: 100% (20/20), done.
Delta compression using up to 8 threads
Compressing objects: 100% (15/15), done.
Writing objects: 100% (20/20), 460.88 KiB | 7.55 MiB/s, done.
Total 20 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/dubbaka/sampleproject.git
* [new branch] main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
nath@nath-N53SV:~/edureka/sampleproject$ git status
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean
nath@nath-N53SV:~/edureka/sampleproject$
```

Now the remote repository show all the changes with new features



End of this Assignment