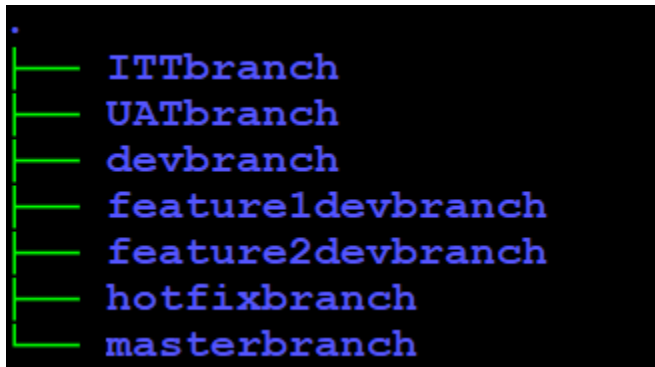
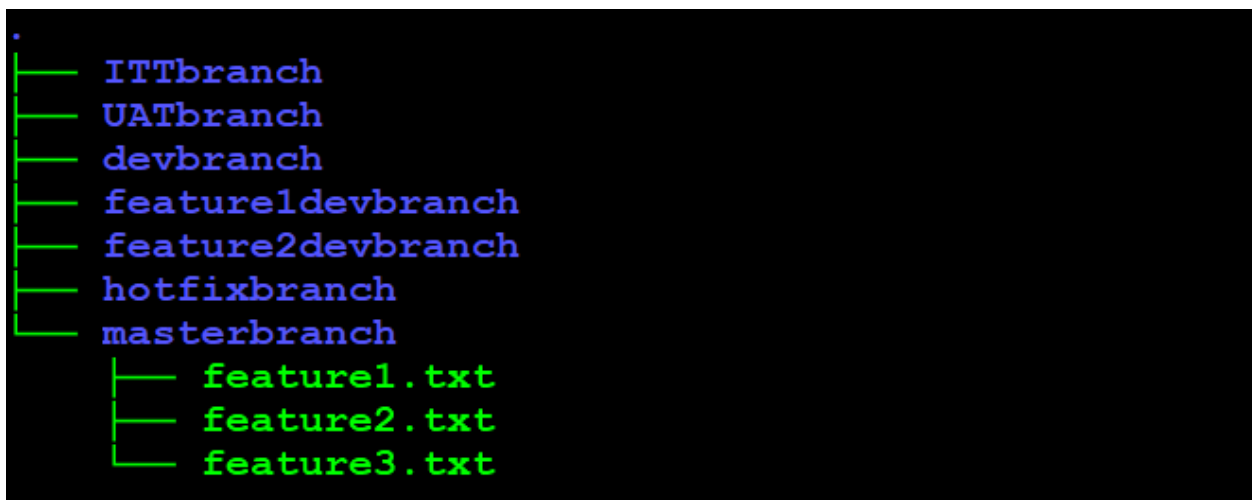


Step 1: Made directory representing diff servers accessing to different git branches



Setting up the master branch ( Pre-PROD Branch):

Creating sample files in master branch and pushing to GitHub Master branch



Staging, committing and pushing the master files from local master branch to github master branch and this will be now baselined as my pre-prod env.

```
Initialized empty Git repository in /home/ubuntu/gitcasestudy/masterbranch/.git/
root@ip-172-31-17-116:~/gitcasestudy/masterbranch# git add .
root@ip-172-31-17-116:~/gitcasestudy/masterbranch# git commit -m "first commit o
f master files to local master branch"
[master (root-commit) f46122f] first commit of master files to local master bran
ch
Committer: root <root@ip-172-31-17-116.us-east-2.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

3 files changed, 3 insertions(+)
create mode 100644 feature1.txt
create mode 100644 feature2.txt
create mode 100644 feature3.txt
root@ip-172-31-17-116:~/gitcasestudy/masterbranch#
```

```

root@ip-172-31-17-116:~/gitcasestudy/masterbranch# git remote -v
root@ip-172-31-17-116:~/gitcasestudy/masterbranch# git remote add origin https://
/github.com/sriniatprx/Module2GitCaseStudy.git
root@ip-172-31-17-116:~/gitcasestudy/masterbranch# git remote -v
origin  https://github.com/sriniatprx/Module2GitCaseStudy.git (fetch)
origin  https://github.com/sriniatprx/Module2GitCaseStudy.git (push)
root@ip-172-31-17-116:~/gitcasestudy/masterbranch# git push origin master
Username for 'https://github.com': sriniitg@gmail.com
Password for 'https://sriniitg@gmail.com@github.com':
Counting objects: 5, done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (5/5), 366 bytes | 366.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0)
To https://github.com/sriniatprx/Module2GitCaseStudy.git
 * [new branch]      master -> master
root@ip-172-31-17-116:~/gitcasestudy/masterbranch# █

```

The screenshot shows a web browser window displaying the GitHub repository page for `sriniatprx/Module2GitCaseStudy`. The page includes a search bar, navigation links (Pull requests, Issues, Marketplace, Explore), and repository statistics (Unwatch, 1, Star, 0, Fork, 0). The repository's code is visible, showing a commit history table with files like `feature1.txt`, `feature2.txt`, and `feature3.txt`. The browser's address bar shows the URL `https://github.com/sriniatprx/Module2GitCaseStudy/packages`. The system tray at the bottom indicates the date and time as 3:32 PM on 7/9/2021.

Checking out the code from master to hotfix branch

```

root@ip-172-31-17-116:~/gitcasestudy/hotfixbranch# ls
root@ip-172-31-17-116:~/gitcasestudy/hotfixbranch# git pull origin master
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 5 (delta 0), reused 5 (delta 0), pack-reused 0
Unpacking objects: 100% (5/5), done.
From https://github.com/sriniatprx/Module2GitCaseStudy
 * branch          master      -> FETCH_HEAD
 * [new branch]     master      -> origin/master
root@ip-172-31-17-116:~/gitcasestudy/hotfixbranch# git branch
* master
root@ip-172-31-17-116:~/gitcasestudy/hotfixbranch# git branch hotfix
root@ip-172-31-17-116:~/gitcasestudy/hotfixbranch# git checkout hotfix
Switched to branch 'hotfix'
root@ip-172-31-17-116:~/gitcasestudy/hotfixbranch# ls
feature1.txt feature2.txt feature3.txt
root@ip-172-31-17-116:~/gitcasestudy/hotfixbranch# █

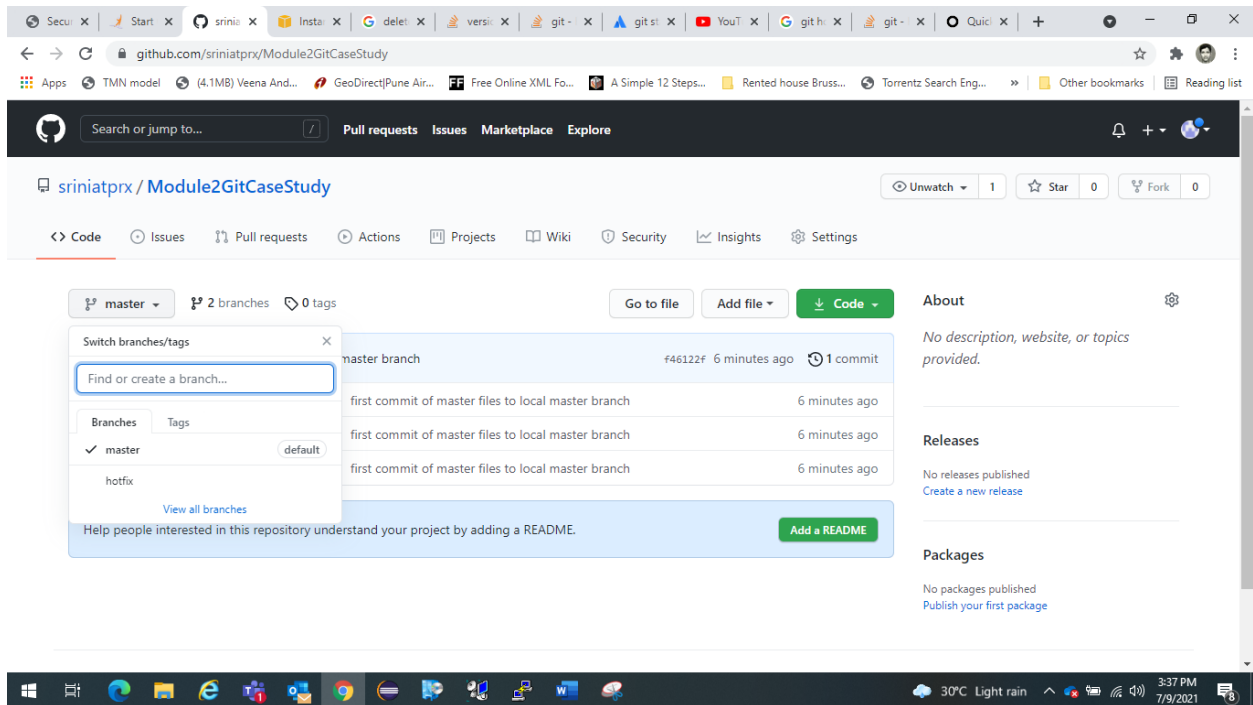
```

And pushing the hotfix branch back to github by creating new hot fix branch in remote

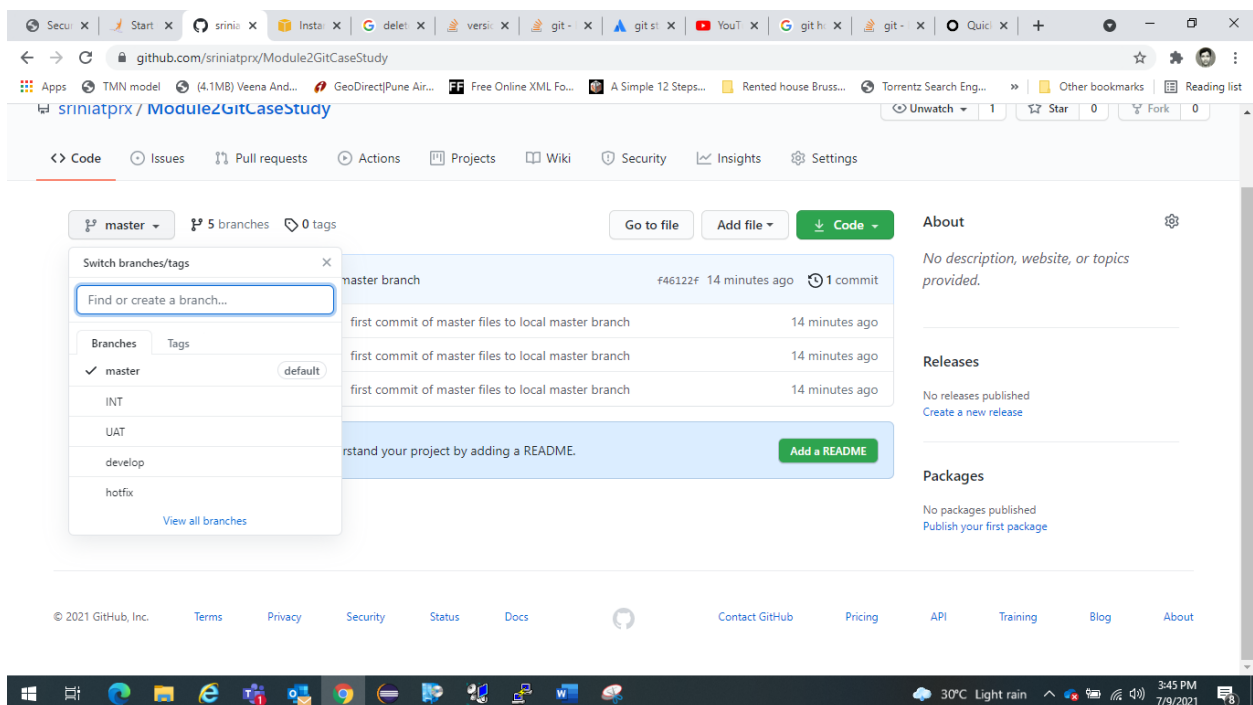
```

root@ip-172-31-17-116:~/gitcasestudy/hotfixbranch# git branch
* master
root@ip-172-31-17-116:~/gitcasestudy/hotfixbranch# git branch hotfix
root@ip-172-31-17-116:~/gitcasestudy/hotfixbranch# git checkout hotfix
Switched to branch 'hotfix'
root@ip-172-31-17-116:~/gitcasestudy/hotfixbranch# ls
feature1.txt feature2.txt feature3.txt
root@ip-172-31-17-116:~/gitcasestudy/hotfixbranch# git push origin hotfix
Username for 'https://github.com': sriniitg@gmail.com
Password for 'https://sriniitg@gmail.com@github.com':
Total 0 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'hotfix' on GitHub by visiting:
remote:      https://github.com/sriniatprx/Module2GitCaseStudy/pull/new/hotfix
remote:
To https://github.com/sriniatprx/Module2GitCaseStudy.git
 * [new branch]     hotfix -> hotfix
root@ip-172-31-17-116:~/gitcasestudy/hotfixbranch# █

```



Similarly pulling the code base from master to all branches ( Dev, INT and UAT) and create the new branches in Github as well



Now that codebase of Master, Hot fix, Develop, INT and UAT all are same

Now creating 2 more branches for feature 1 and feature 2 and pulling the code from develop branch

```

root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch# git remote add origin https://github.com/srinia
tprx/Module2GitCaseStudy.git
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch# git pull origin develop
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 5 (delta 0), reused 5 (delta 0), pack-reused 0
Unpacking objects: 100% (5/5), done.
From https://github.com/srinia
tprx/Module2GitCaseStudy
 * branch          develop    -> FETCH_HEAD
 * [new branch]     develop    -> origin/develop
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch# █

root@ip-172-31-17-116:~/gitcasestudy/feature2devbranch# git init
Initialized empty Git repository in /home/ubuntu/gitcasestudy/feature2devbranch/.git/
root@ip-172-31-17-116:~/gitcasestudy/feature2devbranch# git remote add origin https://github.com/srinia
tprx/Module2GitCaseStudy.git
root@ip-172-31-17-116:~/gitcasestudy/feature2devbranch# git pull origin develop
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 5 (delta 0), reused 5 (delta 0), pack-reused 0
Unpacking objects: 100% (5/5), done.
From https://github.com/srinia
tprx/Module2GitCaseStudy
 * branch          develop    -> FETCH_HEAD
 * [new branch]     develop    -> origin/develop
root@ip-172-31-17-116:~/gitcasestudy/feature2devbranch# █

```

Now making changes in feature 1 file in feature1 branch and feature 2 file in feature2 branch and pushing to feature branches in github

```
root@ip-172-31-17-116:~/gitcasestudy/feature2devbranch# cd ..
root@ip-172-31-17-116:~/gitcasestudy# cd feature1devbranch/
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch# ls
feature1.txt  feature2.txt  feature3.txt
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch# nano feature1
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch# nano feature1
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch# cat feature1
hi this is the new code change for feature1
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch# git status
On branch feature1
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    feature1

nothing added to commit but untracked files present (use "git add" to track)
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch#
```

```
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch# git add .
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch# git commit -m "committing the feature1 code change to feature 1 local branch"
[feature1 977b228] committing the feature1 code change to feature 1 local branch
Committer: root <root@ip-172-31-17-116.us-east-2.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)
create mode 100644 feature1
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch#
```

```
root@ip-172-31-17-116: ~/gitcasestudy/feature1devbranch
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch# git add .
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch# git commit -m "committing the feature1 code change to feature 1 local branch"
[feature1 977b228] committing the feature1 code change to feature 1 local branch
Committer: root <root@ip-172-31-17-116.us-east-2.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)
create mode 100644 feature1
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch# git status
On branch feature1
nothing to commit, working tree clean
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch#
```

Pushing the changes to github to feature1 branch

```
root@ip-172-31-17-116: ~/gitcasestudy/feature1devbranch
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)
create mode 100644 feature1
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch# git status
On branch feature1
nothing to commit, working tree clean
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch# git push origin feature1
Username for 'https://github.com': sriniitg@gmail.com
Password for 'https://sriniitg@gmail.com@github.com':
Counting objects: 3, done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 349 bytes | 349.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature1' on GitHub by visiting:
remote:   https://github.com/sriniatprx/Module2GitCaseStudy/pull/new/feature1
remote:
To https://github.com/sriniatprx/Module2GitCaseStudy.git
 * [new branch]   feature1 -> feature1
root@ip-172-31-17-116:~/gitcasestudy/feature1devbranch#
```

Feature 1 file in github master



github.com/srinatprx/Module2GitCaseStudy/blob/master/feature1.txt

Search or jump to... Pull requests Issues Marketplace Explore

srinatprx / Module2GitCaseStudy

Unwatch 1 Star 0 Fork 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master Module2GitCaseStudy / feature1.txt Go to file

root first commit of master files to local master branch Latest commit f46122f 32 minutes ago History

0 contributors

1 lines (1 sloc) 17 Bytes Raw Blame

```
1 this is feature1
```

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## Feature 1 file in github develop branch

github.com/srinatprx/Module2GitCaseStudy/blob/develop/feature1.txt

Search or jump to... Pull requests Issues Marketplace Explore

srinatprx / Module2GitCaseStudy

Unwatch 1 Star 0 Fork 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

develop Module2GitCaseStudy / feature1.txt Go to file

root first commit of master files to local master branch Latest commit f46122f 33 minutes ago History

0 contributors

1 lines (1 sloc) 17 Bytes Raw Blame

```
1 this is feature1
```

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## Feature 1 file in feature 1 branch

github.com/srinatprx/Module2GitCaseStudy/blob/feature1/feature1.txt

Search or jump to... Pull requests Issues Marketplace Explore

srinatprx / Module2GitCaseStudy

Unwatch 1 Star 0 Fork 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

feature1 Module2GitCaseStudy / feature1.txt Go to file

root removing feature1 file and modifying feature1.txt file Latest commit de7b5bb 4 minutes ago History

0 contributors

1 lines (1 sloc) 21 Bytes Raw Blame

```
1 this is new feature1
```

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## Feature 2 file in master github

github.com/srinatprx/Module2GitCaseStudy/blob/master/feature2.txt

Search or jump to... Pull requests Issues Marketplace Explore

srinatprx / Module2GitCaseStudy

Unwatch 1 Star 0 Fork 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master Module2GitCaseStudy / feature2.txt Go to file

root first commit of master files to local master branch Latest commit #46122f 33 minutes ago History

0 contributors

1 lines (1 sloc) 17 Bytes Raw Blame

```
1 this is feature2
```

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## Feature 2 file in develop branch in github

github.com/srinatprx/Module2GitCaseStudy/blob/develop/feature2.txt

Search or jump to... Pull requests Issues Marketplace Explore

srinatprx / Module2GitCaseStudy

Unwatch 1 Star 0 Fork 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

develop Module2GitCaseStudy / feature2.txt Go to file

root first commit of master files to local master branch Latest commit #46122f 34 minutes ago History

0 contributors

1 lines (1 sloc) 17 Bytes Raw Blame

```
1 this is feature2
```

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## Feature 2 file in feature 1 branch

github.com/srinatprx/Module2GitCaseStudy/blob/feature1/feature2.txt

Search or jump to... Pull requests Issues Marketplace Explore

srinatprx / Module2GitCaseStudy

Unwatch 1 Star 0 Fork 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

feature1 Module2GitCaseStudy / feature2.txt Go to file

root first commit of master files to local master branch Latest commit #46122f 34 minutes ago History

0 contributors

1 lines (1 sloc) 17 Bytes Raw Blame

```
1 this is feature2
```

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## Feature 2 file modified only in feature 2 branch

The screenshot shows a web browser window displaying the GitHub repository page for 'sriatprx / Module2GitCaseStudy'. The browser's address bar shows the URL 'github.com/sriatprx/Module2GitCaseStudy/blob/feature2/feature2.txt'. The repository page includes a search bar, navigation links (Pull requests, Issues, Marketplace, Explore), and repository statistics (Unwatch, 1, Star, 0, Fork, 0). The 'Code' tab is selected, showing the file 'feature2.txt' in the 'feature2' branch. The file content is '1 this is new feature2'. The commit history shows a commit by 'root' with the message 'feature 2 modify'.

github.com/sriatprx/Module2GitCaseStudy

Unwatch 1 Star 0 Fork 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

feature2 Module2GitCaseStudy / feature2.txt Go to file

root feature 2 modify Latest commit 766af63 4 minutes ago History

0 contributors

1 lines (1 sloc) 21 Bytes Raw Blame

1 this is new feature2

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Now merging the feature 1 and feature 2 to develop branch

Secur x Start x Com x Insta x dele x vers x git x git sl x YouT x git h x git x Quic x + -

github.com/sriniaiprx/Module2GitCaseStudy/compare/develop...feature1

Apps TMN model (4.1MB) Veena And... GeoDirectPune Air... Free Online XML Fo... A Simple 12 Steps... Rented house Bruss... Torrentz Search Eng... Other bookmarks Reading list

## Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

base: develop ← compare: feature1 ✓ Able to merge. These branches can be automatically merged.

Discuss and review the changes in this comparison with others. [Learn about pull requests](#) [Create pull request](#)

2 commits 1 file changed 0 comments 1 contributor

Commits on Jul 09, 2021

- committing the feature1 code change to feature 1 local branch 977b228
- removing feature1 file and modifying feature1.txt file de7b5bb

Showing 1 changed file with 1 addition and 1 deletion. Unified Split

```
feature1.txt
... @@ -1 +1 @@
1 - this is feature1
1 + this is new feature1
```

30°C Light rain 4:06 PM 7/9/2021

github.com/sriniaiprx/Module2GitCaseStudy/compare/develop...feature1

Apps TMN model (4.1MB) Veena And... GeoDirectPune Air... Free Online XML Fo... A Simple 12 Steps... Rented house Bruss... Torrentz Search Eng... Other bookmarks Reading list

## Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base: develop ← compare: feature1 ✓ Able to merge. These branches can be automatically merged.

Feature1

Write Preview H B I

Request to merge feature 1 to develop branch

Attach files by dragging & dropping, selecting or pasting them.

[Create pull request](#)

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

Reviewers No reviews

Assignees No one—assign yourself

Labels None yet

Projects None yet

Milestone No milestone

Linked issues Use [Closing keywords](#) in the description to automatically close issues

github.com/srinatprx/Module2GitCaseStudy/pull/1

Code Issues Pull requests 1 Actions Projects Wiki Security Insights Settings

## Feature1 #1

Open srinatrpx wants to merge 2 commits into develop from feature1

Conversation 0 Commits 2 Checks 0 Files changed 1

srinatrpx commented now

Request to merge feature 1 to develop branch

root added 2 commits 14 minutes ago

- committing the feature1 code change to feature 1 local branch 977b228
- removing feature1 file and modifying feature1.txt file de7b5bb

Add more commits by pushing to the feature1 branch on srinatrpx/Module2GitCaseStudy.

Continuous integration has not been set up

30°C Light rain 4:07 PM 7/9/2021

github.com/srinatprx/Module2GitCaseStudy/pull/1

Code Issues Pull requests 1 Actions Projects Wiki Security Insights Settings

## Feature1 #1

Merged srinatrpx merged 2 commits into develop from feature1 now

removing feature1 file and modifying feature1.txt file de7b5bb

srinatrpx merged commit 227cb8e into develop now

Pull request successfully merged and closed

You're all set—the feature1 branch can be safely deleted.

Write Preview

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

Comment

Remember, contributions to this repository should follow our GitHub Community Guidelines.

ProTip! Add comments to specific lines under Files changed.

Projects None yet

Milestone No milestone

Linked issues Successfully merging this pull request may close these issues. None yet

Notifications Customize Unsubscribe

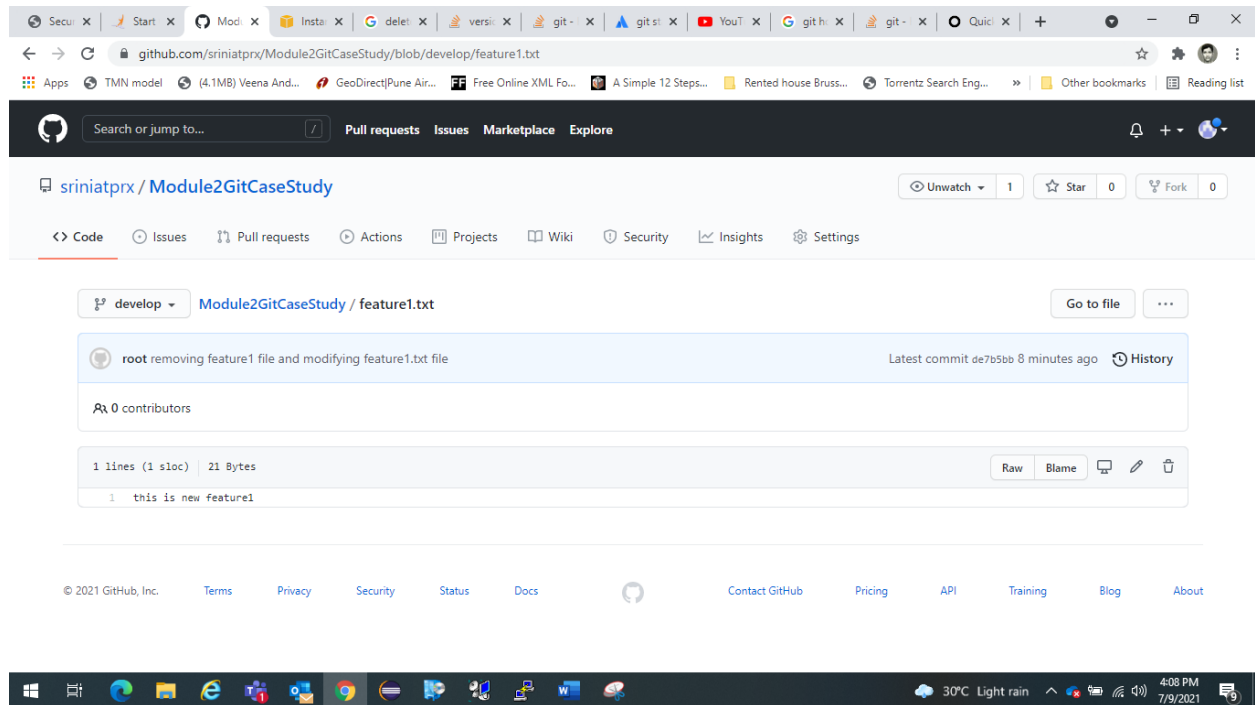
You're receiving notifications because you're watching this repository.

1 participant

Lock conversation

30°C Light rain 4:07 PM 7/9/2021

Now the feature 1 in develop branch is also modified



From develop we can now merge to INT branch then after INT testing can merge the latest code base to UAT branch and then after final testing and defect fixes we can move to master which is our pre prod. PROD deployment happens with the final code base from master

Similarly we can do for feature 2 file from feature2 branch to develop branch

For hot fixes which can be done in hot fix branch and similary we can directly merge to Master branch which is our pre prod branch and then to PROD.

Not illustrating here these processes as the steps are similar.