Version Control System

↓

To track and manage the version of app/code

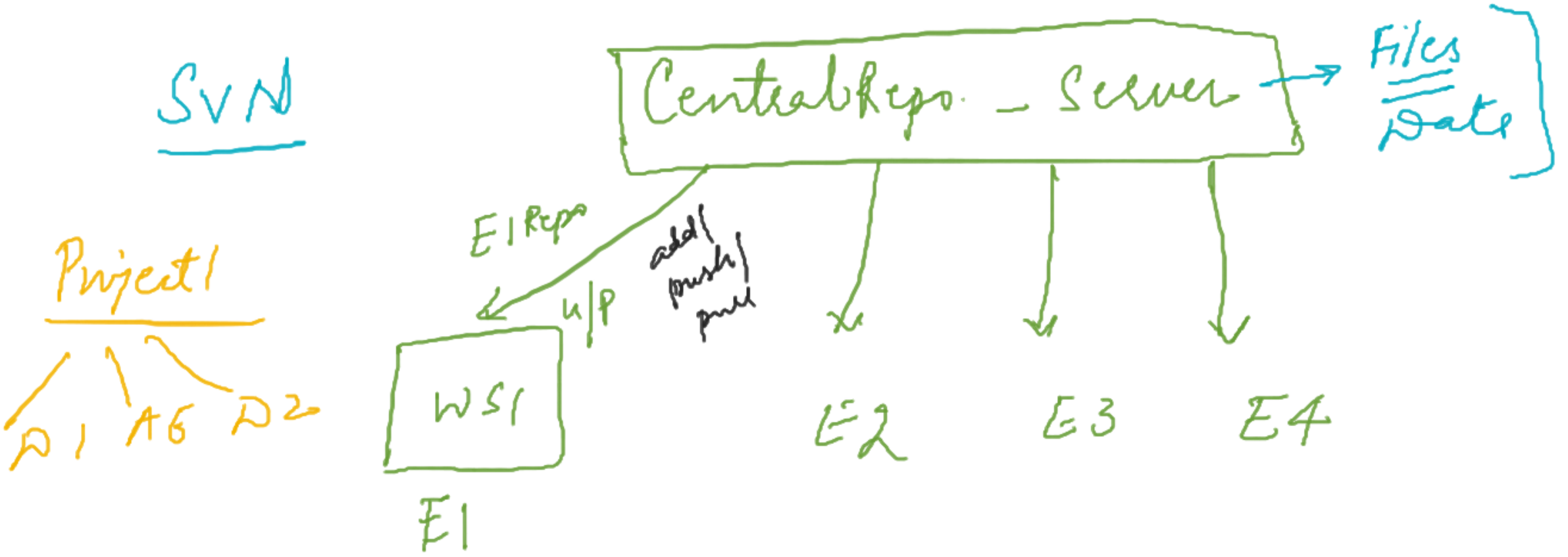
Types

→ Centralised VC

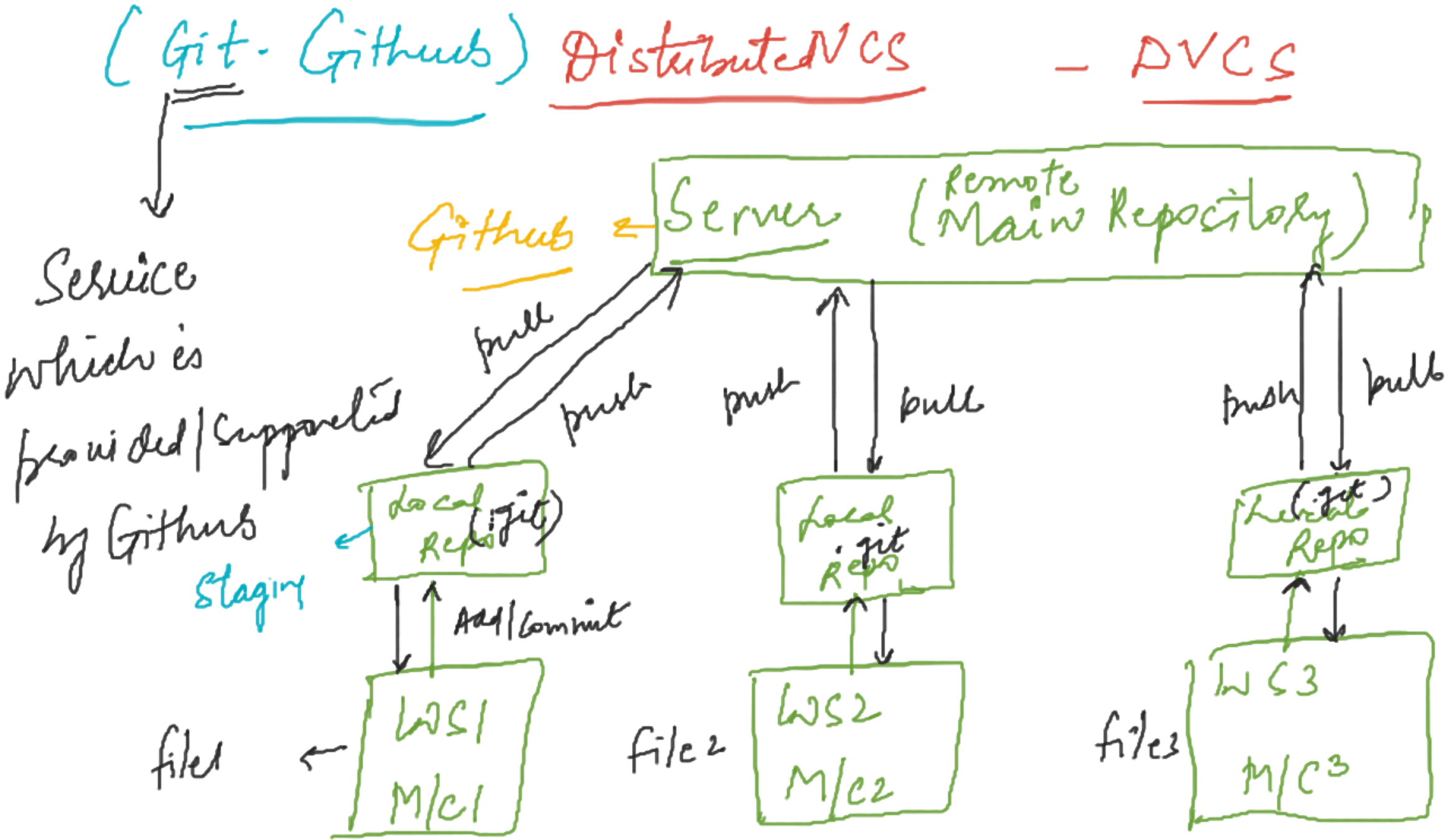
→ Distributed VC

Central Repo → CVS

SVN



(Git - Github) Distributed VCS - DVCS



Git | Github Account

1. To initialize local Repo - .git

[git init]

2. To add the file. (Single File)

//git add FirstTextFile.txt

filename.ext

To add multiple files → // git add .

3. To commit the files in local Repo.

```
git commit -m "Add New Files"
```

msg Any message

4. If you are new user to git.

```
git config --global user.email "gurpreet-star"
git config --global user.name "gurpreet-star"
```

5. Login to Github → Create a new Repo → make it as public / private

6. Run the command :-

```
git remote add origin https://github.com/Mshaveta/LearnGitHub_0402.git
```

7 push the Local Repo code into Remote Repo (GitHub)

✓ git push -u origin main / master

↓ upload

↓ branch name

Day1 - P1 → Scripts 2, 3

↳ → Master Branch

Master

↓

Stable version of project

Day2 - P1 → Scripts 4, 5

↳ Master

POM

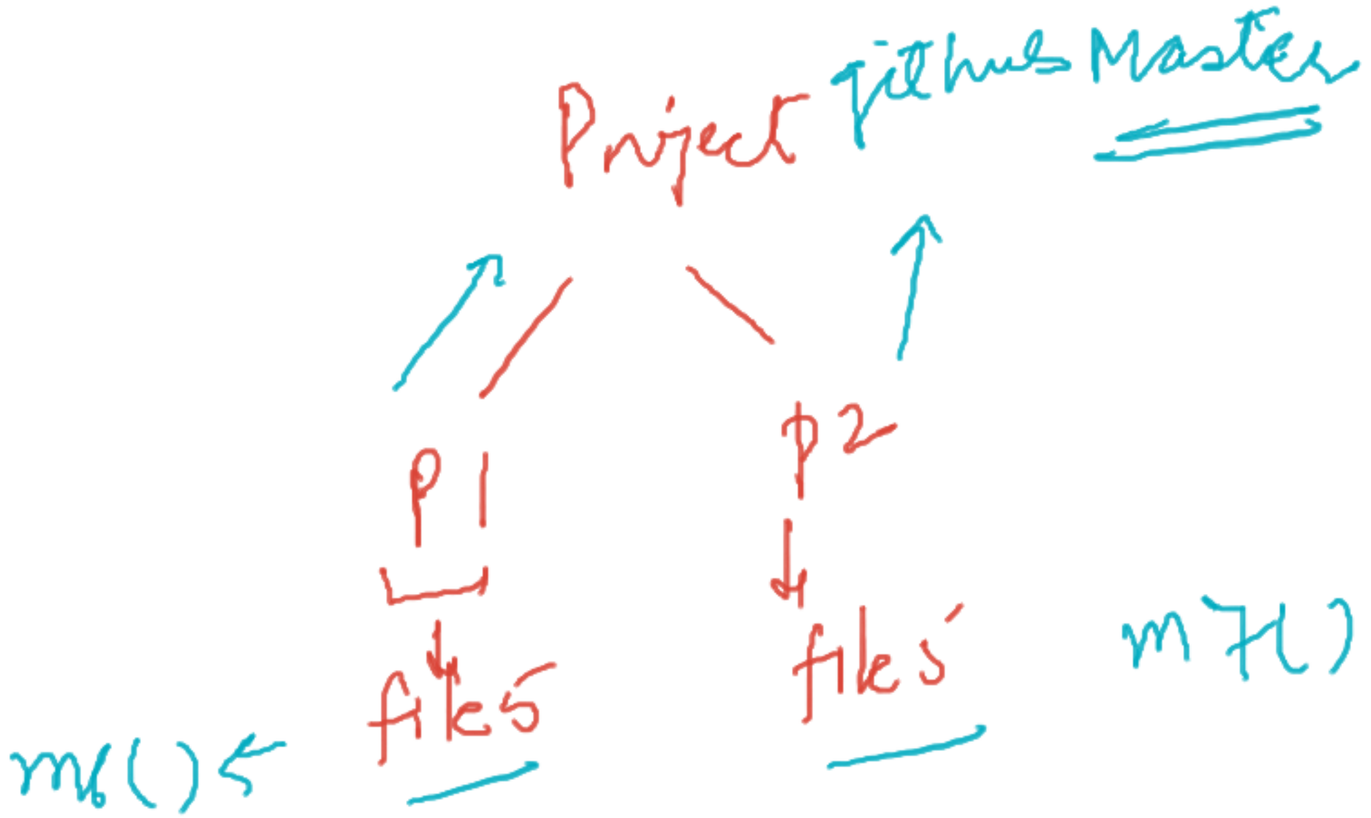
↓

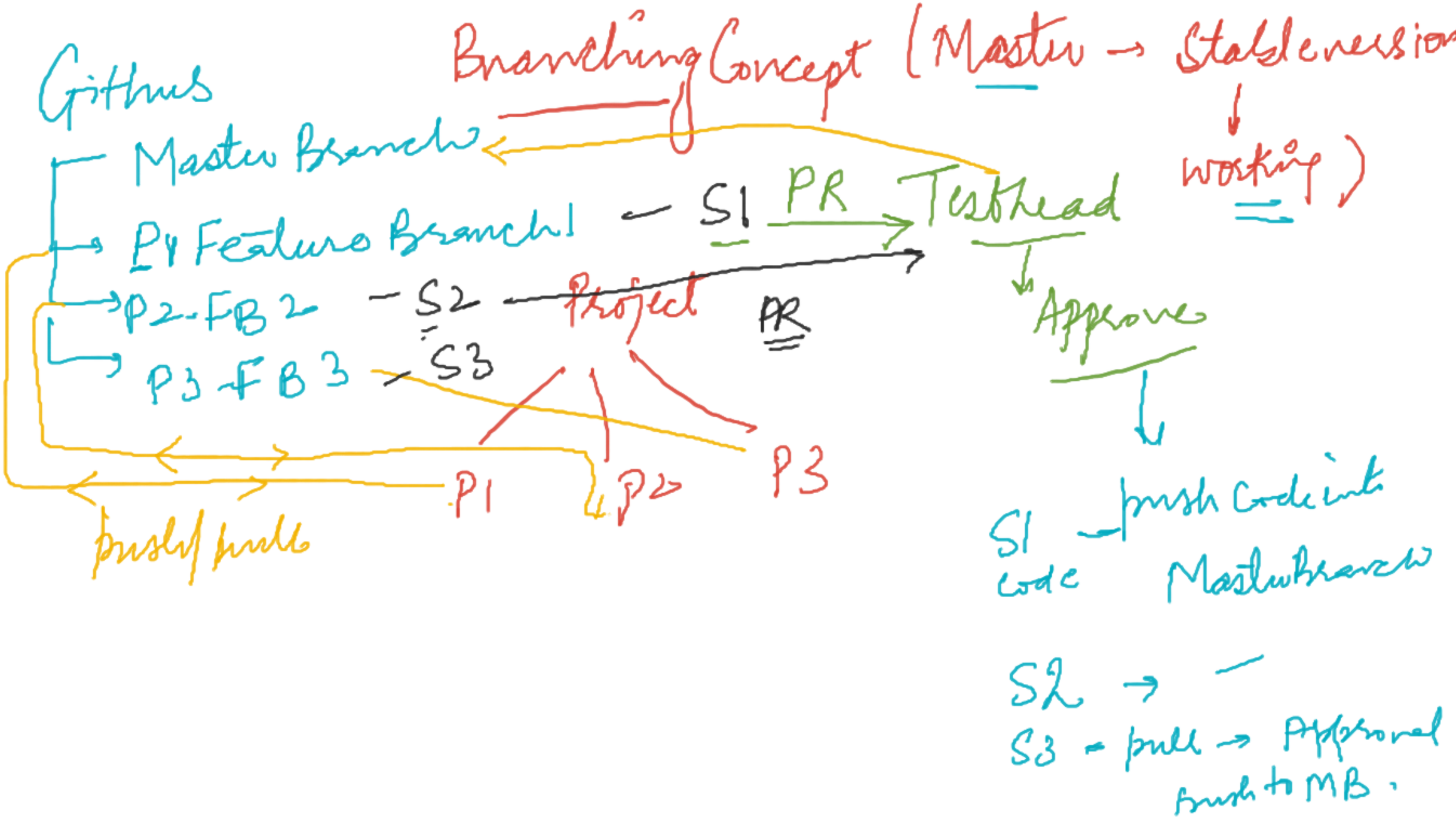
Login

Day 3 → T2 → P1 → P2

↓

↳ → github url → Master


Project GitHub Master
p1
p2
files
files
m1()
m()


Branching Concept (Master → Stable version
working)
Github
Master Branch
P1 Feature Branch1
P2-FB2
P3-FB3
S1
S2
S3
PR
Testhead
Approve
Project
PR
P1
P2
P3
push/pull
S1 code — push Code into Master branch
S2 →
S3 - pull → Approved push to MB.

confliction

utility → commonfun → few methods ( )

7-10 [m1

m2 ↓ 12-18

7-18

m3 → 20-30

Working with Feature Branch using cmd:

1. To create a feature Branch:

```
git branch "Branch Name"
```

2. To switch the controller from master to FB:

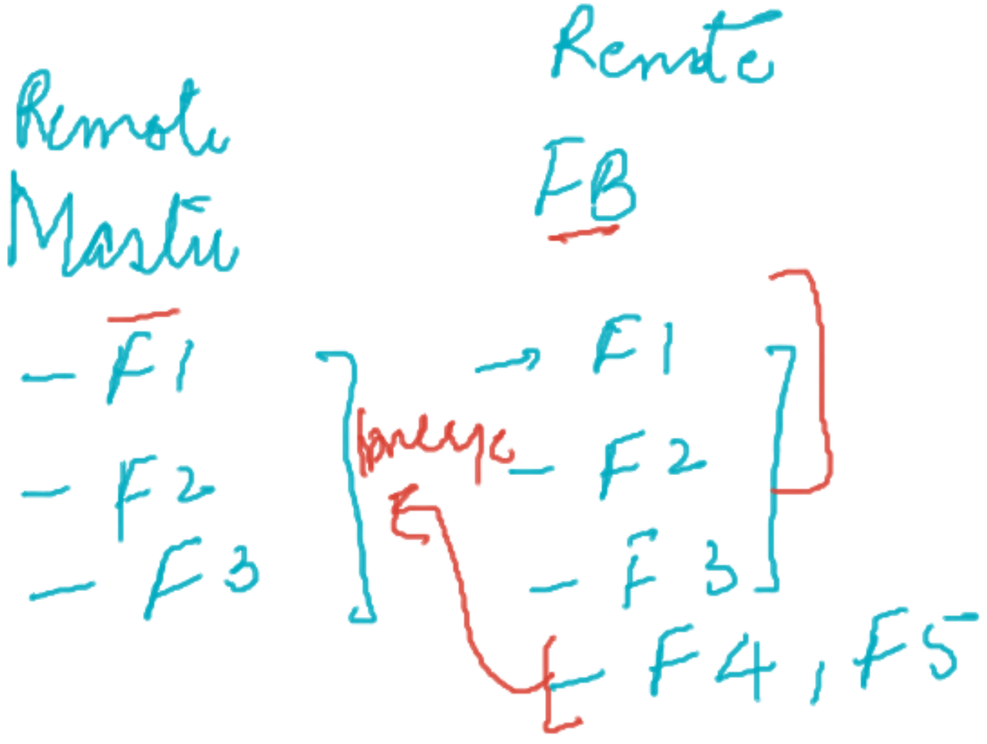
```
git checkout Branch Name
```

3. Create a new File → Add File → Commit → Push

→ git add .

→ git commit -m "msg"

→ git push -u origin "Feature Branch Name"] New Branch along with files will be created on Github.



4. To merge FB into Master Branch

— switch To master Branch

git checkout master

— Merge the FB and Master Brach [check the conflictions]

git merge feature Branch Name.

— push the code into Master

git push -u origin master

Project → Master Branch

Dev 1 FB1 — F1, 2, 3, 4

Dev 2 — 5, 6, 7, 8

Dev 3 FB3 — 9, 10, 3

user → Bulk

Emp → Bulk

→ xlsx