

What is SDCL?

What is a waterfall?

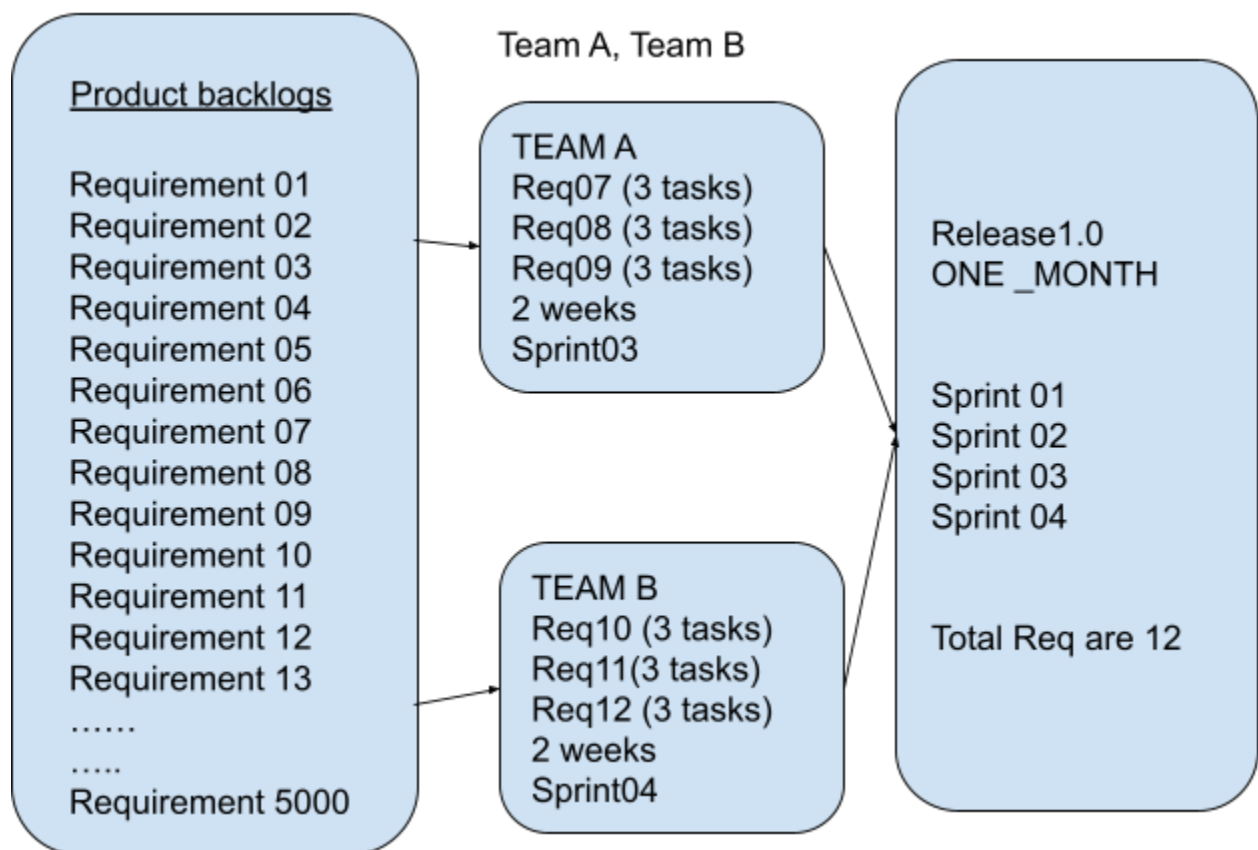
What is Agile ?

Diff agile vs waterfall?

What is a sprint?

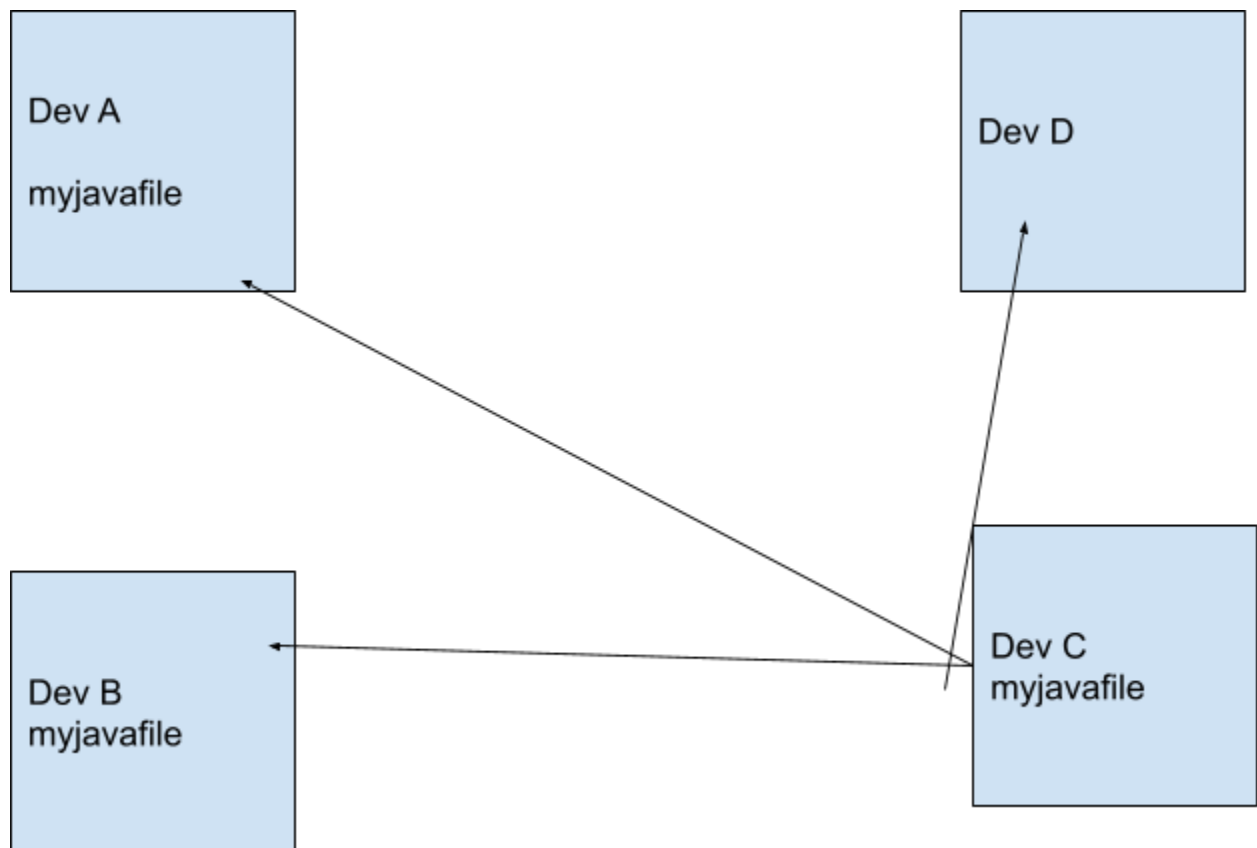
What is sprint CL?

What is released?



CICD:

- 1) version control: **GIT**
- 2) Build tool : **Maven**
- 3) CI(automation): **jenkins**
- 4) CD(artifact) : **jfrog**
- 5) Code analyzer : **sonarqube**



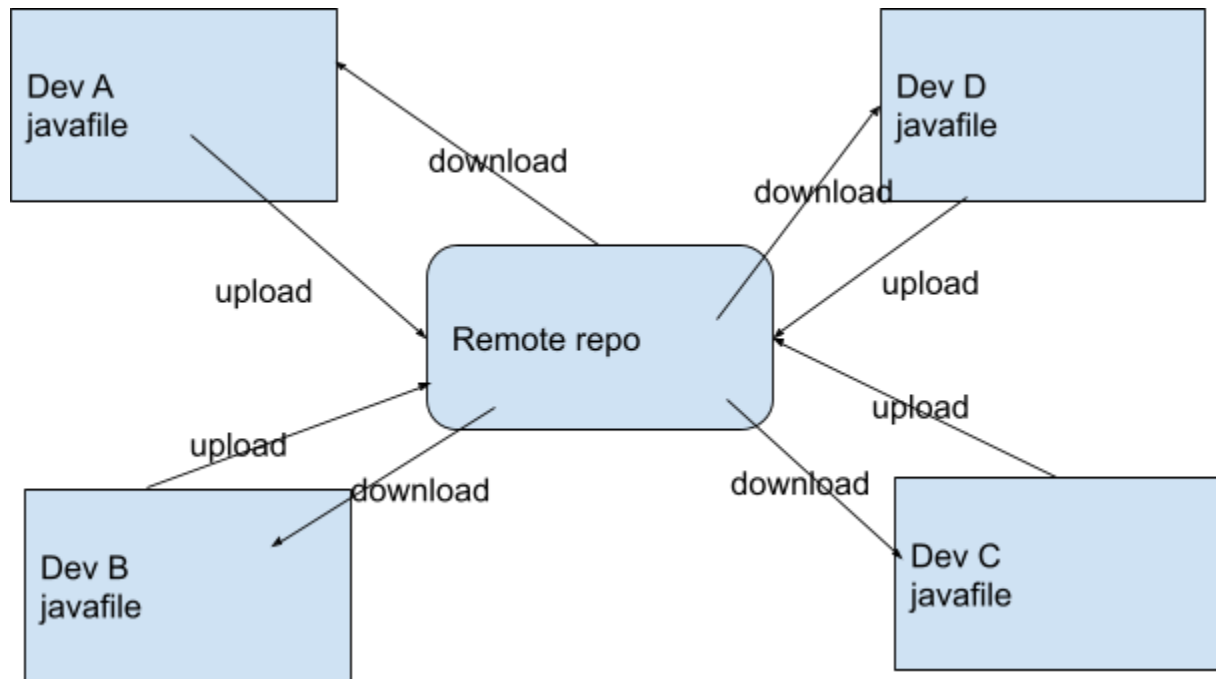
Without version control:

In 100% of work

80% of time for merge

20 % of time for write

With version control:



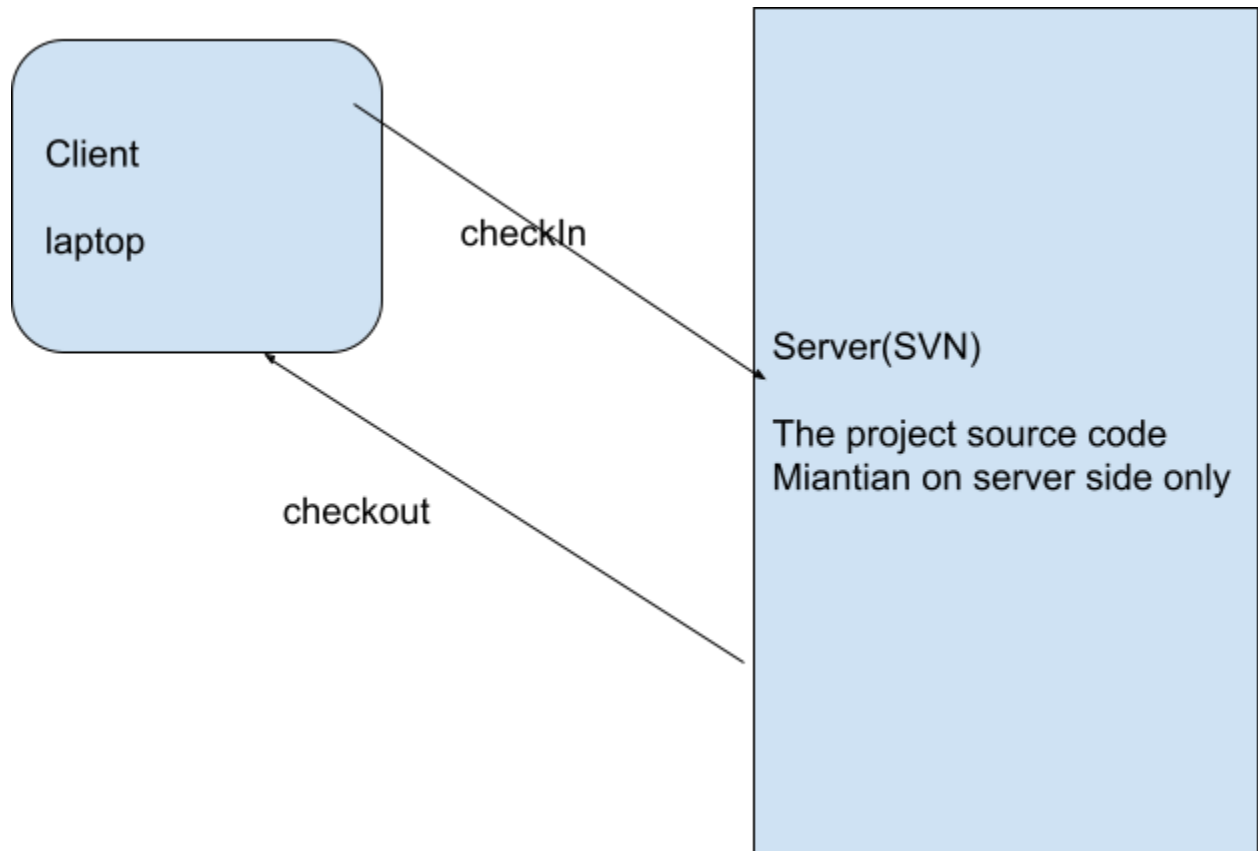
In 100 % of time
20 % for merge
80 % for write code

- 1) We can create versions for each change**
- 2) We can go back older versions at point of time**
- 3) We can do auto merge (if it possible only)**
- 4) We can create branches**

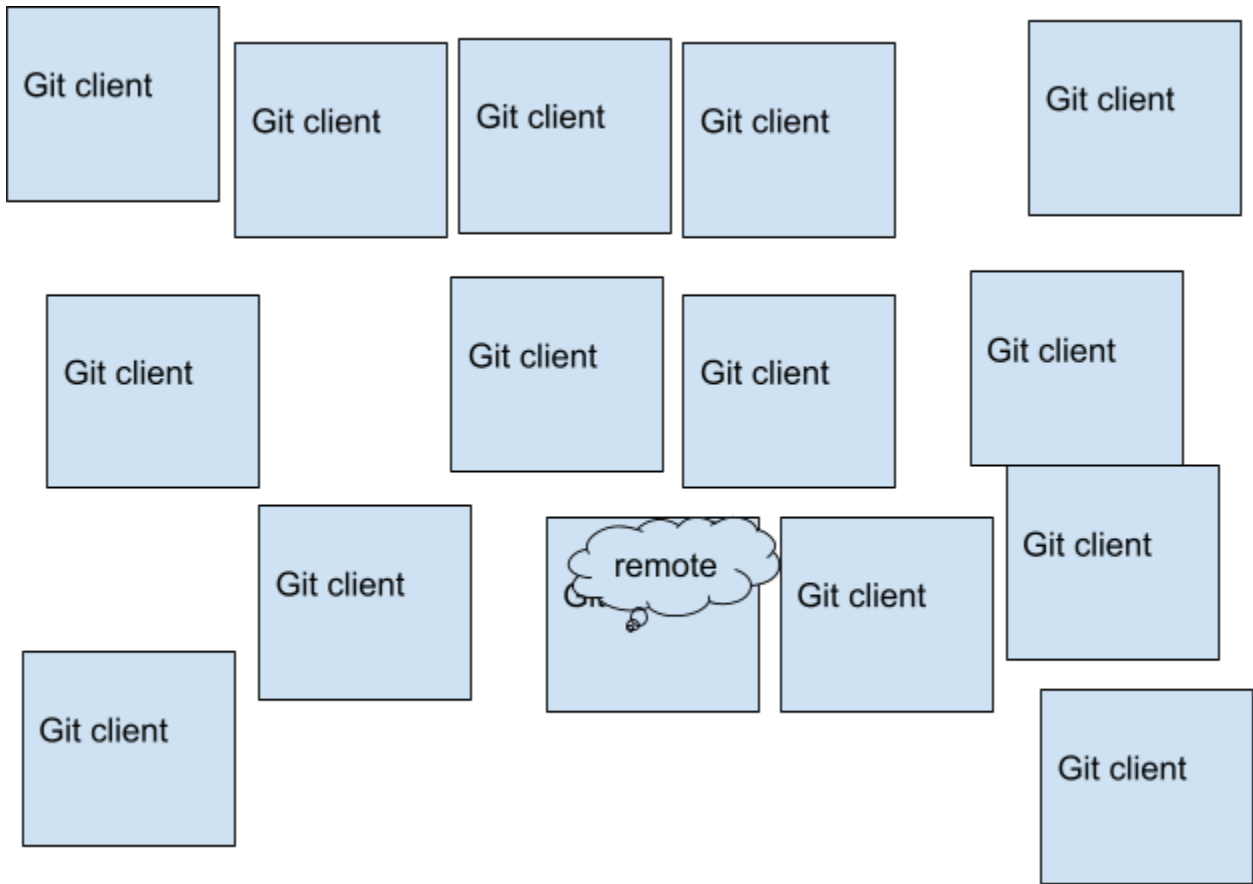
Two types of version control:

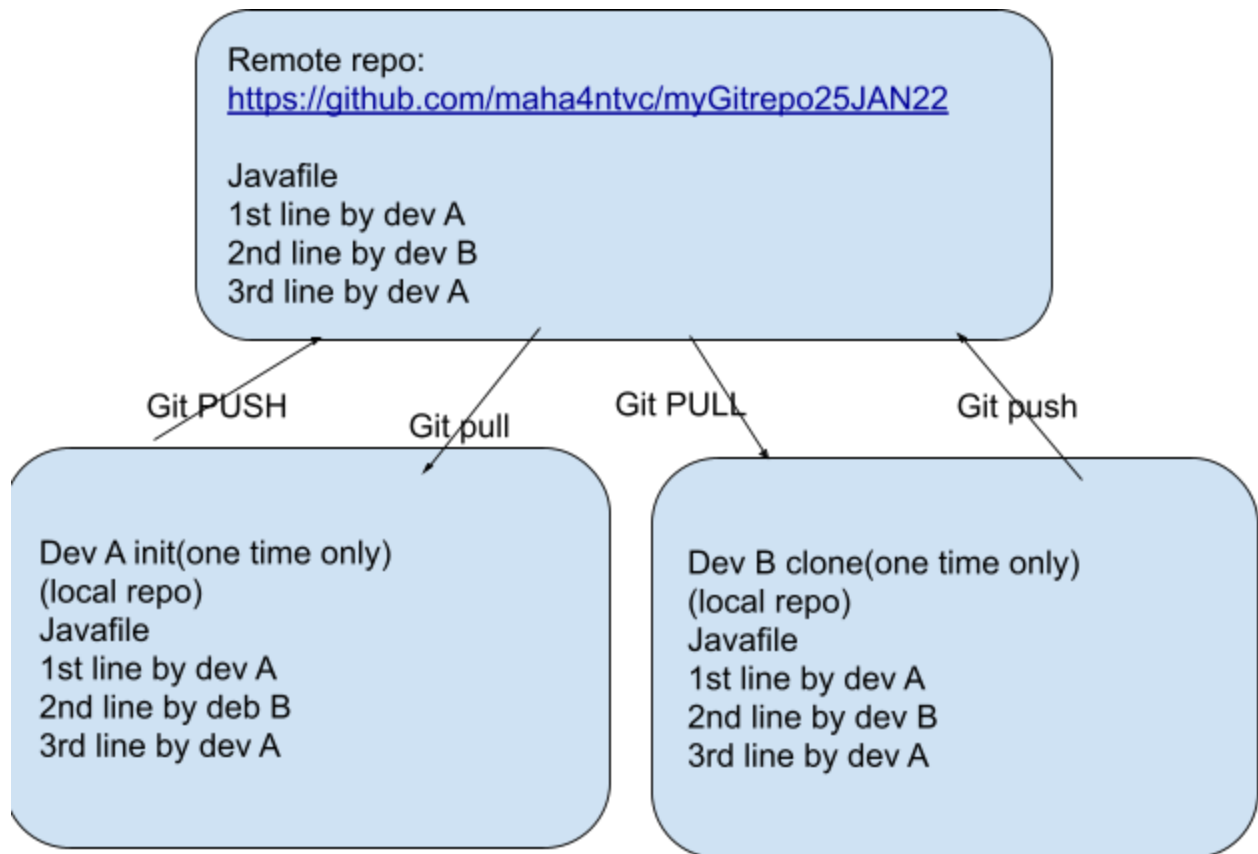
- 1) Client and server**
- 2) Distributed ART**

Client and servers ART:



Distributed Art: GIT

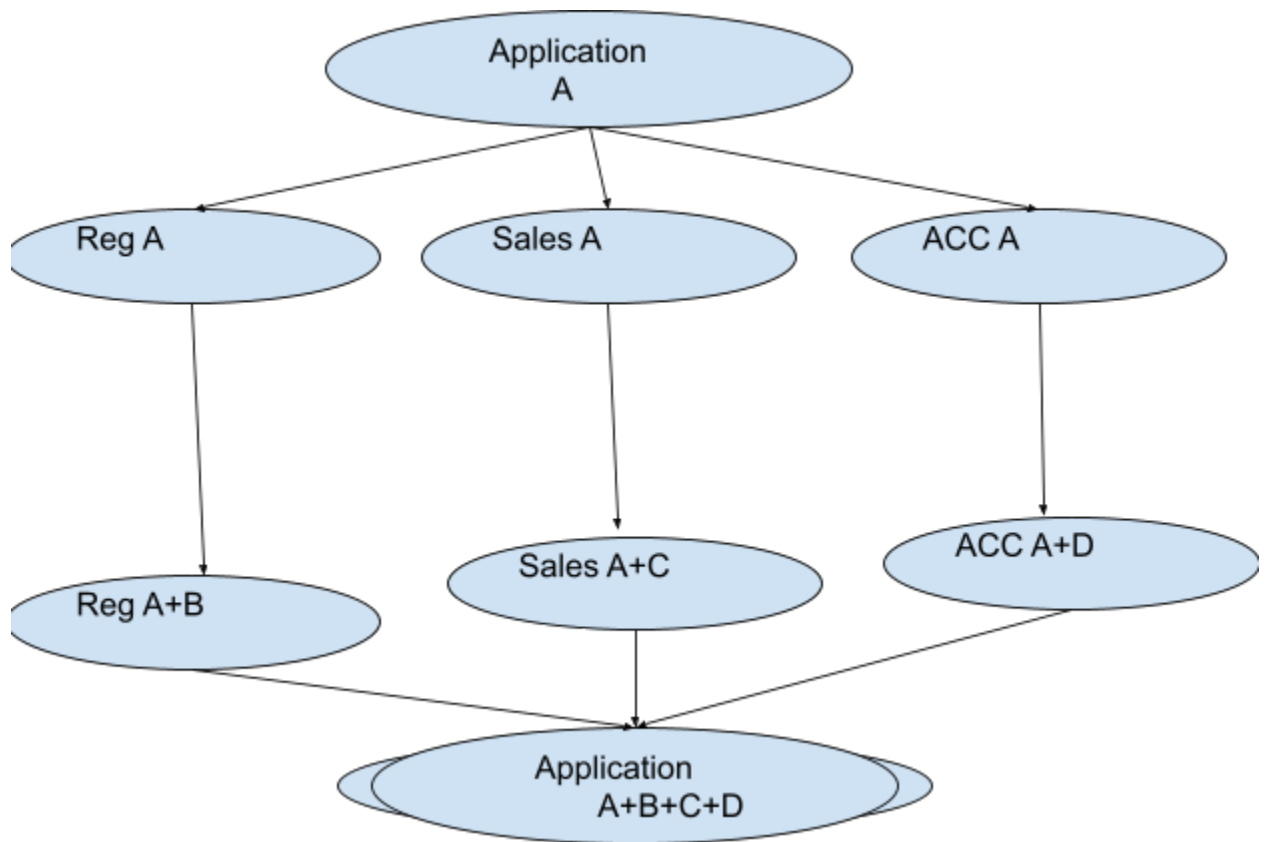




- 1) New changes are in working tree
- 2) Add init staging area : `git add -A` : restore
- 3) Save changes init local repo : `git commit -m "comment"` :
reset
- 4) Update change into remote : `git push` : revert

Branches?

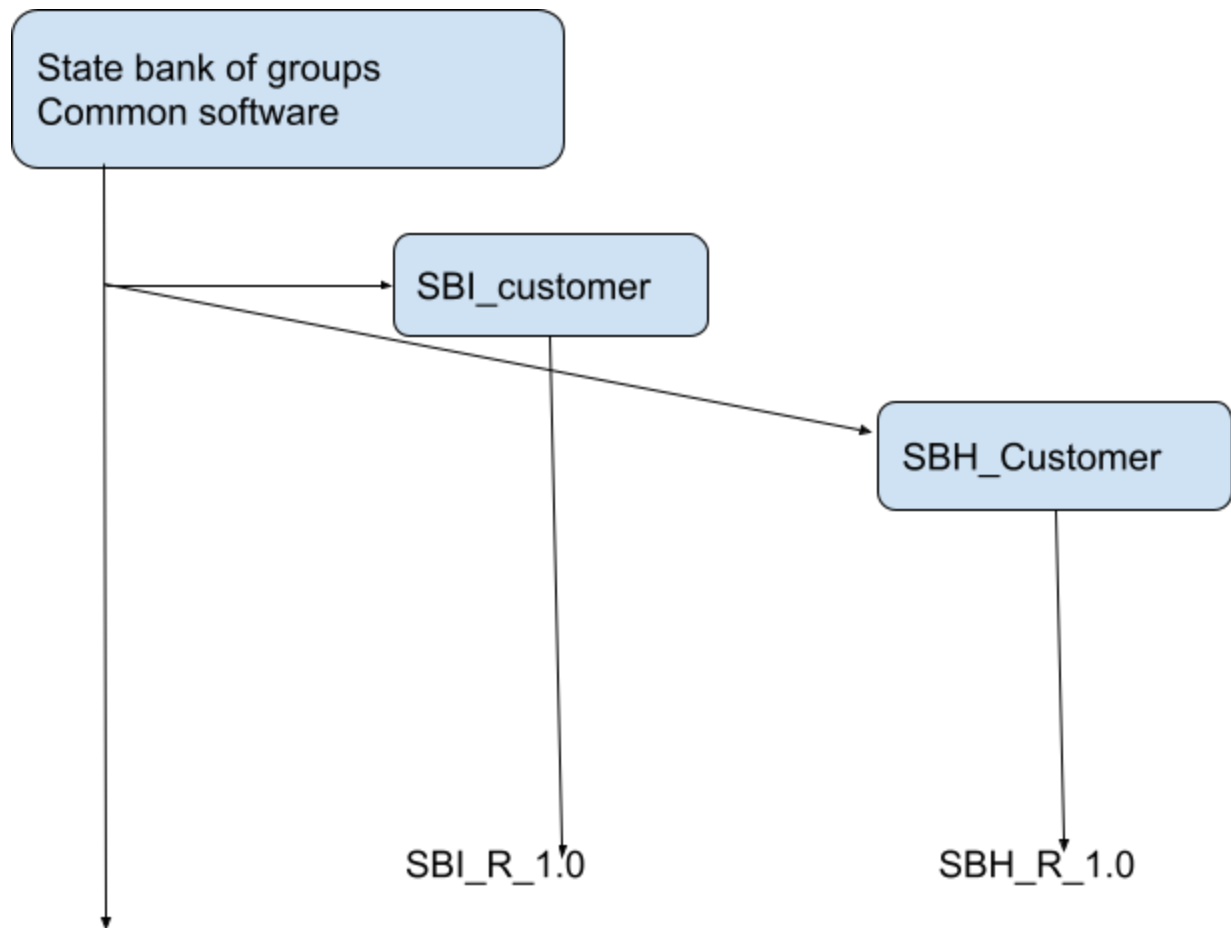
- 1) Reg & login
- 2) Payment and sales
- 3) Account and Dashboard



Git branch are Two types:

- 1) Customer branch
- 2) Release branch

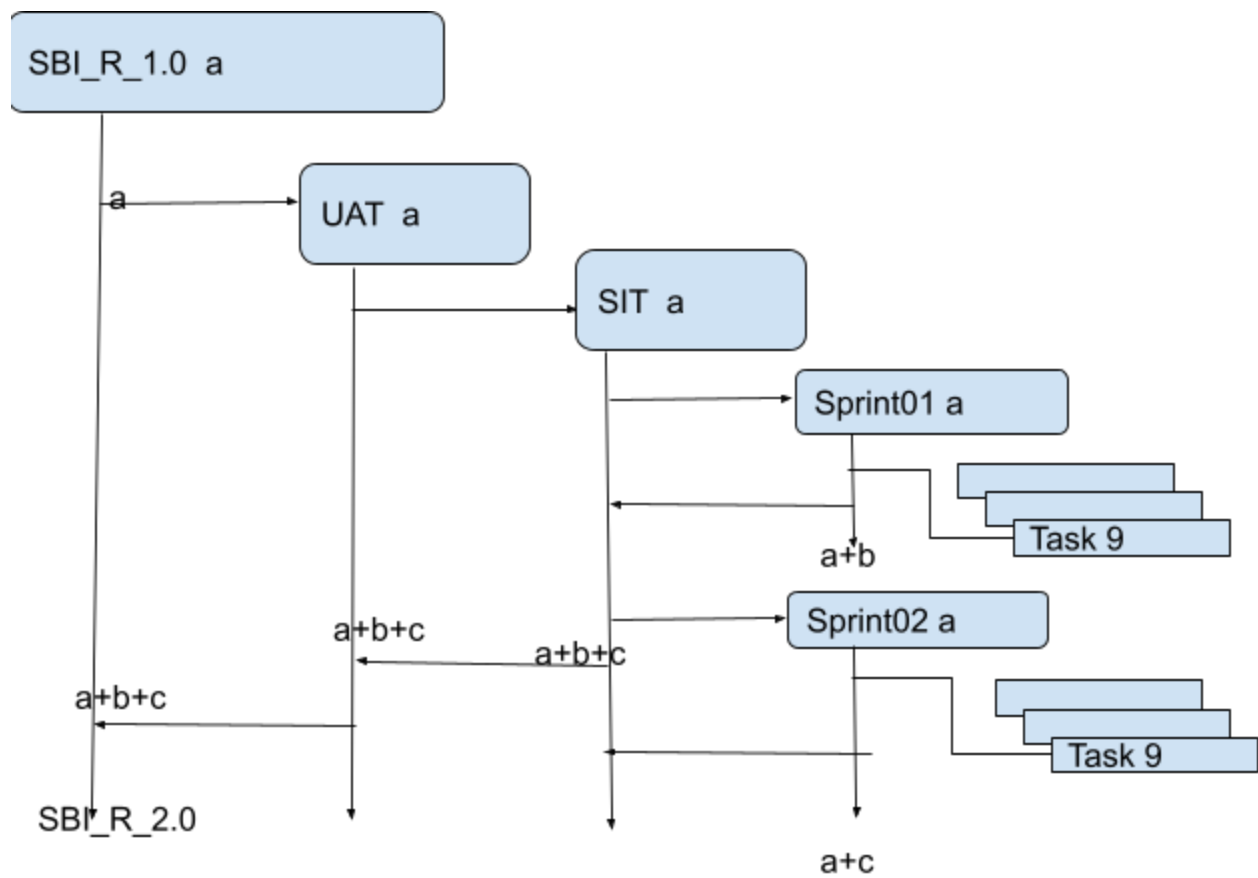
Customer branch:



Git checkout -b <new branch name>

Git checkout <branch name>

Git merge



Git cat-file

Stash

As Dev: you are doing task (reg page)

To complete this task , 5 days

Myjavaregistrationpage.java

1st day java line of code completed

2nd day java line of code completed

3rd day java line of code completed

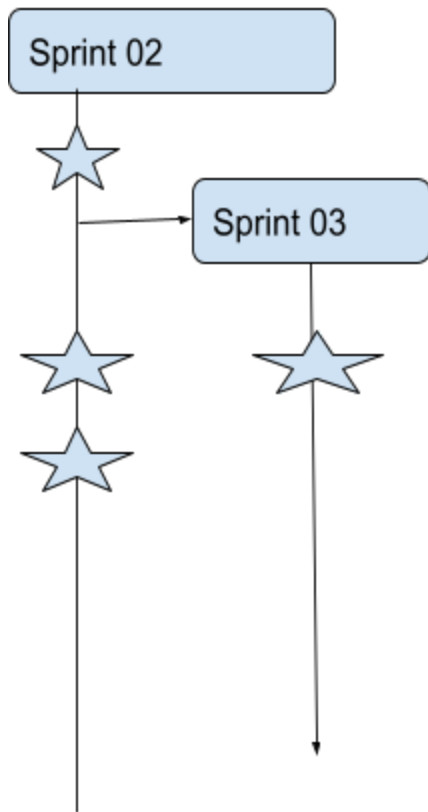
4th day java line of code completed 90% of tasks

We need completes manager work

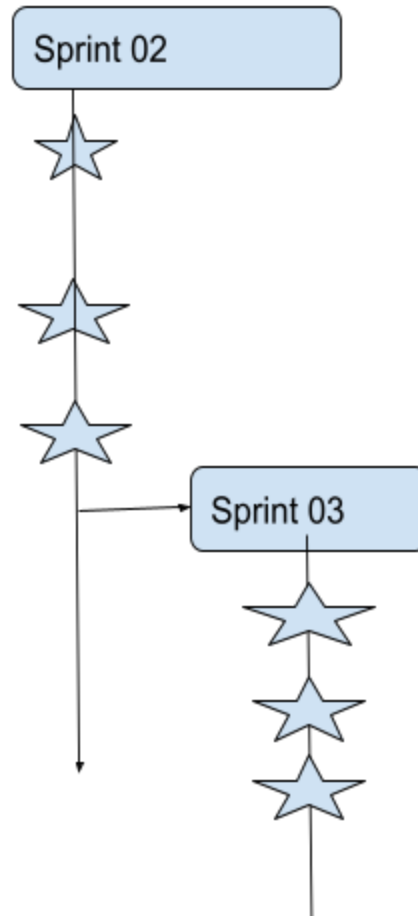
5th day java line of code completed 100% of tasks

Rebase:

Before Rebase



After Rebase



Restore vs reset vs revert

Restore: up to stage

Reset : on only local repo

We can reset last 3 commit only, but not middle commits

--mixed : reset into writing tree

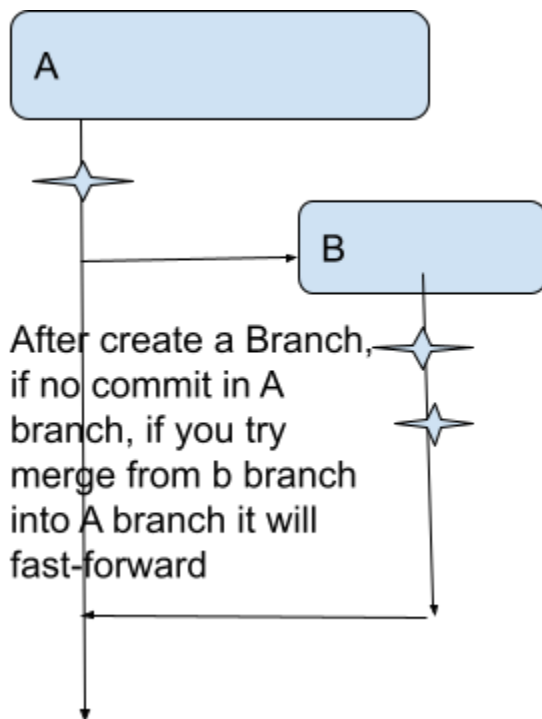
--soft : reset into stage

--hard : empty

Revert :

We revert any commit ,it re-commit

fast forward :



Jar : has only classes

War : has classes+jsp+html+js.....

Ear: jar+ war

Clean : delete maven workspace

mvn compile : download dependencies + compile
mvn test : download dependencies + compile + test
mvn package : download dependencies + compile + test + package
mvn install : download dependencies + compile + test + package + install
mvn deploy : download dependencies + compile + test + package + install+deploy

We can install jenkins 3 ways:

- 1) Jenkins as standalone**
- 2) Jenkins as application**
- 3) Jenkins as service**

Jenkins as service:

- 1) Install java8**
- 2) Install maven**
- 3) Install git**
- 4) Install jenkins**

I want to execute a jenkins job for a clone java project and execute maven target.

1) Build periodically

Based on given time , jenkins job will trigger **Without** any conditions

2) Poll SCM

Based on given time , jenkins job will trigger **With** conditions

Condition: before jenkins job , first will verify if any commit happens then only jenkins job will be triggered or else skipped.

3) GitHub hook

When commit , then jenkins job trigger

4) Up / down stream jobs

Job1

Job2

job3