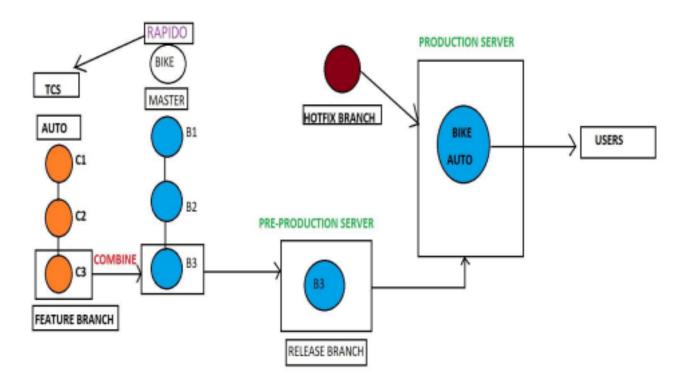
What is a Branch?

In Git, A branch is a new or separate part of a main repository that is used to develop an independent line of code without effecting main / Master.

(OR)

A branch is a separate part of master branch in git. Branching means diverging from the master and continue to work separately on the same project.

Why we need branch?





- Branches allows developers to work together in a same project using different branches.
- Developers can easily develop new features of a software without effecting the main branch code.
- To maintain Stability when changes are made to a particular code.

Types of Branches:

- 1.Master Branch
- 2. Feature Branch
- 3. Release Branch
- 4. Hotfix Branch

1. Master branch:

This branch contains production code. All the development code is combined into master to send to the production environment.

2. Feature branch:

Feature branches are used to develop new features for the next release. Once the feature is completed it is combined / merged into master branch.



3. Release branch:

Release is a temporal supporting branch to the production release, mainly bug fixes will be done in this branch.

4. Hotfix branch:

Hotfix branch is necessary to perform immediate bug fixing in production environment.

Various Commands used in Branch:

- To Create a branch git branch
 branch name>
- To see all the branches git branch
 (or)
 git branch –list

git switch

branch name>

- To rename a branch git branch -m
branch name>
- To rename a branch from the master: git branch -m <old branch name> <new branch name>
 - To delete a branch in local repository git branch -d <branch_name>
- To push a branch to remote repository git push alias
 stranch name>
 - To delete a branch in remote repository git push alias -d
branch name>
 - To list out all the local and remote branches

git branch -a

• To list only the remote branches

