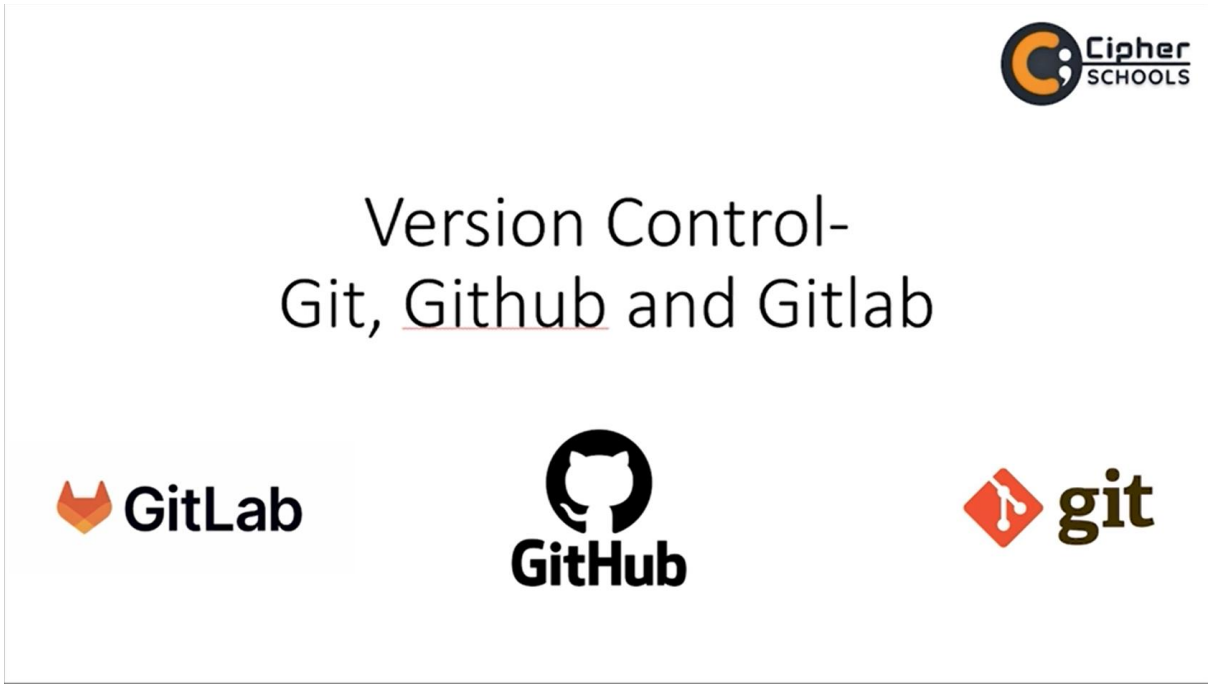
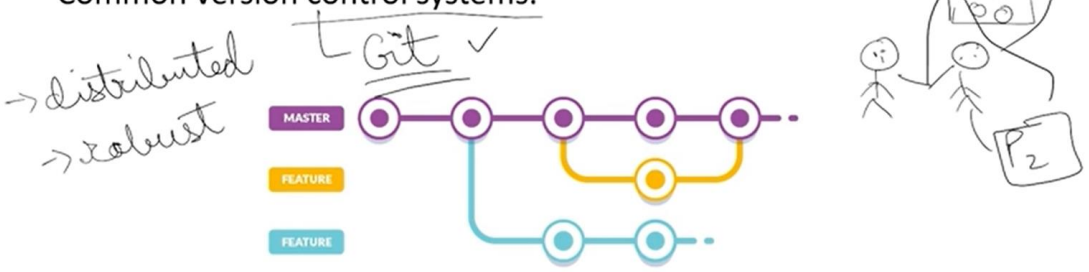
Version Control with GIT/GITLAB:
Basics of version control, using Git for project management, Github Basics , introduction to GitLab for collaboration.

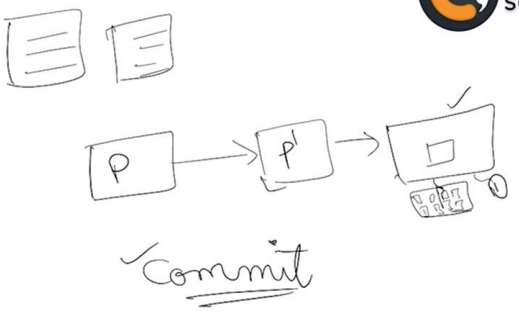


Introduction to Version Control

- What is version control?
- Why is version control crucial for software development?
- Common version control systems.

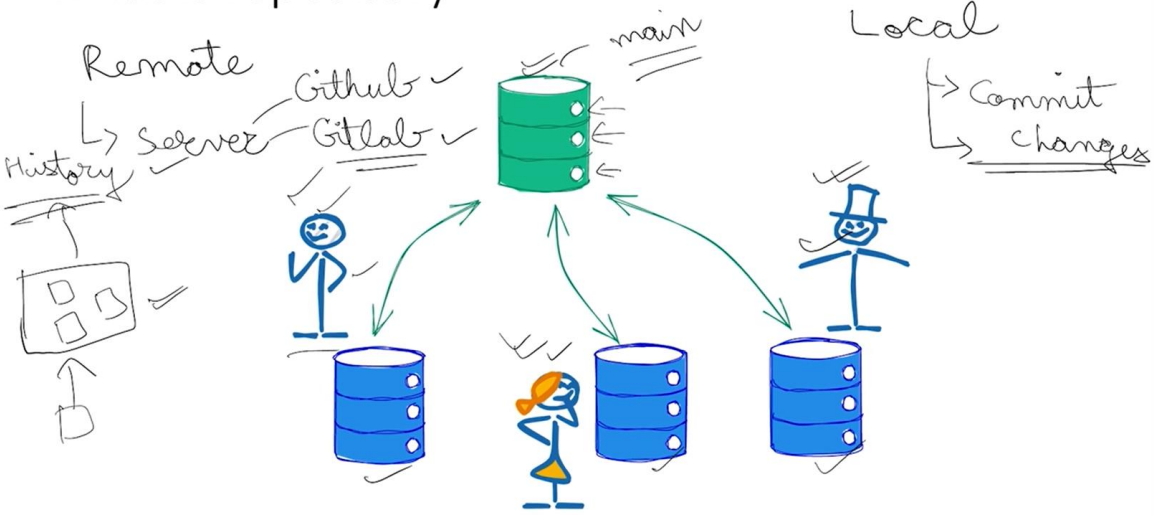


Basics of Git

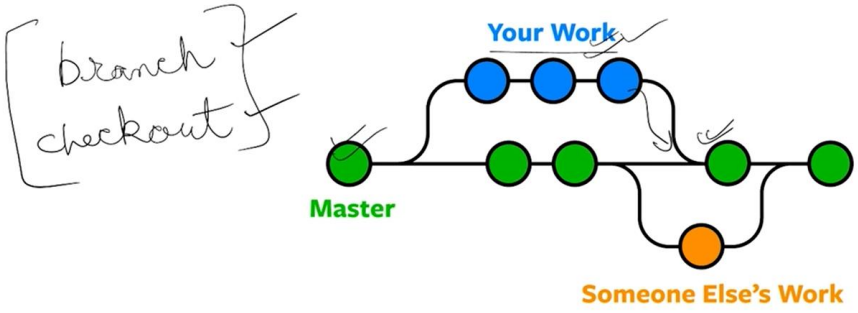


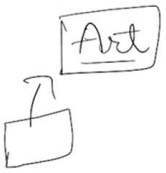
- What is Git?
- Key Features:
  - Snapshot
  - Branches
    - local & remote repositories.
- Basic Commands: git init, git add, git commit, git status

What is repository?

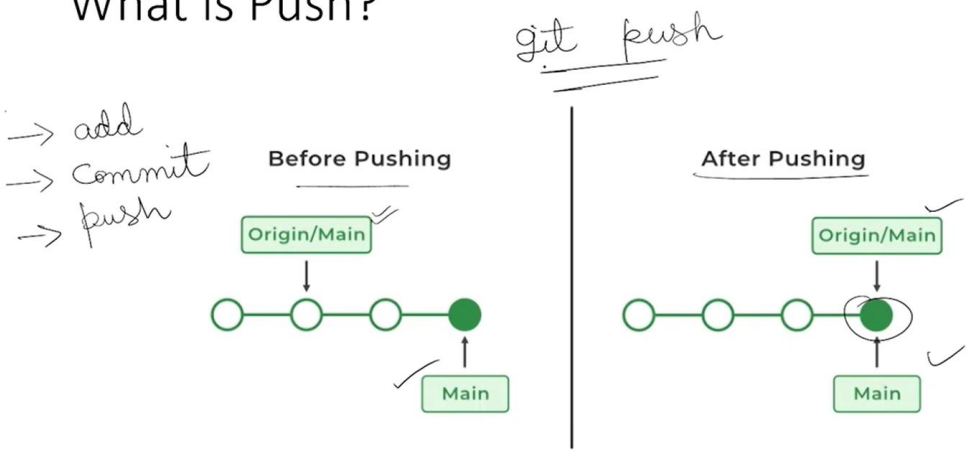


What is Branch?





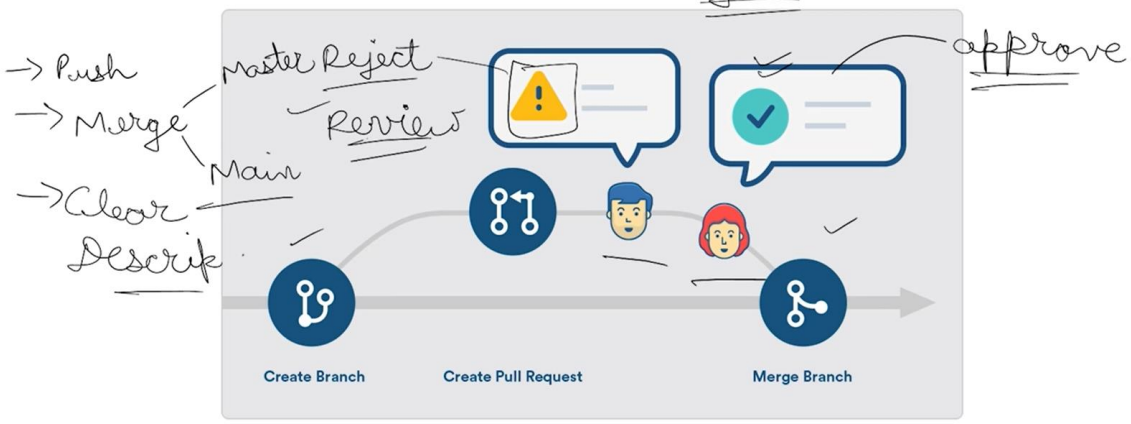
What is Push?



What is Pull request?

- What is Git?
- Key Features:
  - Snapshot
  - Branches
  - local & remote repositories.
- Basic Commands: git init, git add, git commit, git status

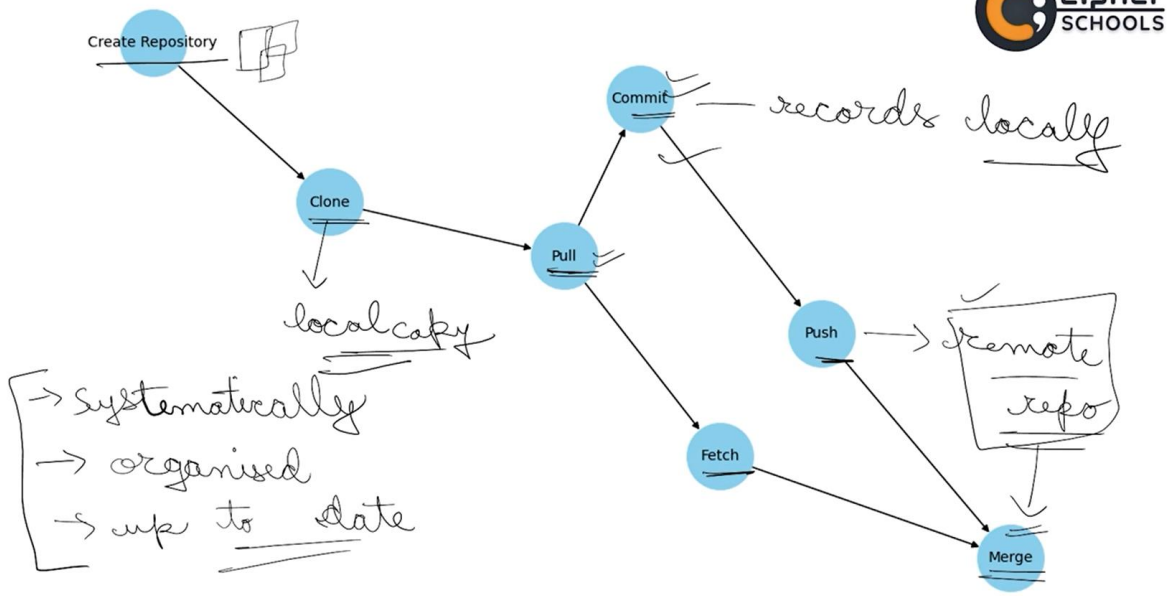
What is Merge Request?



What is Commit?

- What is Git?
- Key Features:
  - Snapshot
  - Branches
  - local & remote repositories.
- Basic Commands: git init, git add, git commit, git status

Basic Git Actions Flowchart



Using Git for Project Management

- Branch Management
- Merging and Conflicts
- Version Tracking

git log — Conflicts
→ Changes
git diff
git blame

Introduction to Github

- What is GitHub?
- Key Features:
  - Pull requests
  - Forks → copy & modify
  - social networking features for developers

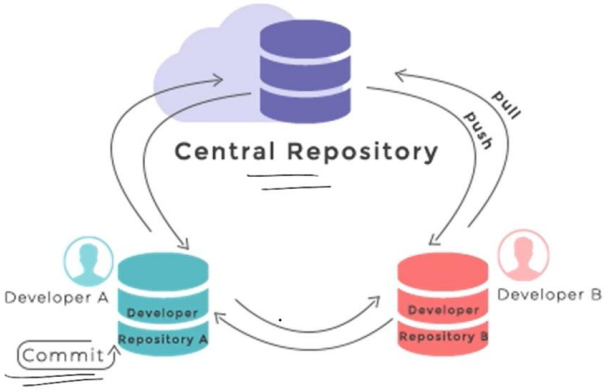
→ Github actions → run tests
deploy code

Introduction to GitLab

- What is GitLab?
- Core Features:
  - Issue tracking
  - CI/CD pipelines
  - merge requests

↳ PM
→ S D

Summarizing core working



When to use what?

GitLab

GitHub

git