A person who has requirement
client

SRS

JIRA TOOL

** SRS-> Software
Requirement
Specification

Project

Module-1
=> files

Module-2
=> files

Module-3
=> files

Module-4
=> files

Developer machine

developer-1

developer-2

developer-3

developer-4

VersionControlSoftware

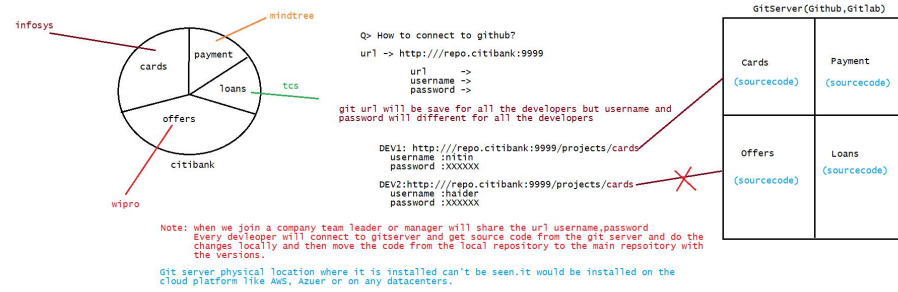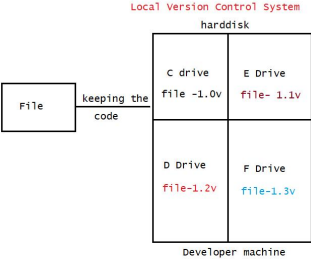file1---> 1.0Version
file1---> 1.1Version
file1---> 1.2Version

Keeping track of the changes made to the file by the developer as per the changes made by the client
requirement would be difficult in Devloper machine.
   To resolve this problem we neeed to use "VersionControlSystem".

infosys

mindtree

cards

payment

loans

tcs

offers

citibank

wipro

Q> How to connect to github?

url -> http:///repo.citibank:9999

```
        url      ->
        username ->
        password ->
```

git url will be save for all the developers but username and
password will different for all the developers

```
        DEV1: http:///repo.citibank:9999/projects/cards
            username :nitin
            password :XXXXXX

        DEV2:http:///repo.citibank:9999/projects/cards
            username :haider
            password :XXXXXX
```

Note: when we join a company team leader or manager will share the url username,password
       Every devleoper will connect to gitserver and get source code from the git server and do the
       changes locally and then move the code from the local repository to the main repsoitory with
       the versions.

Git server physical location where it is installed can't be seen.it would be installed on the
cloud platform like AWS, Azuer or on any datacenters.

GitServer(Github,Gitlab)

Cards (sourcecode)	Payment (sourcecode)
Offers (sourcecode)	Loans (sourcecode)

harddisk

C drive file -1.0v	E Drive file- 1.1v
D Drive file-1.2v	F Drive file-1.3v

File → keeping the code

Developer machine

Drawbacks

1. It is easy to forget in which driver you are in and accidentaly write the data to the worn file or copy from other files.

2. If the hard disk is corrupted there would a possible loss of secured data.

3. By mistake we can delete few files also.

RemoteServer

dev

VersionControl

| file-v1 |
| file-v2 |
| file-v3 |

dev

| file-v1 |
| file-v2 |
| file-v3 |

file v3

SVN

checkout

Git

pull
clone

dev

file v3

dev

| file-v1 |
| file-v2 |
| file-v3 |

Centralized version control system

Server

Repository

update commit / commit update / update commit

Working copy   Working copy   Working copy

Workstation/PC #1   **Workstation/PC #2**   **Workstation/PC #3**

Distributed version control system

Server

remote repository

Repository

eg: **Github**,bitbucket,gitlab,........

push | pull

push | pull | push

pull | push

local repository

Repository

Repository

Repository

commit | update

commit | update

commit | update

workplace
(C,D,E)

Working copy

Working copy

Working copy

Workstation/PC #1

Workstation/PC #2

Workstation/PC #3

Devleoper-1