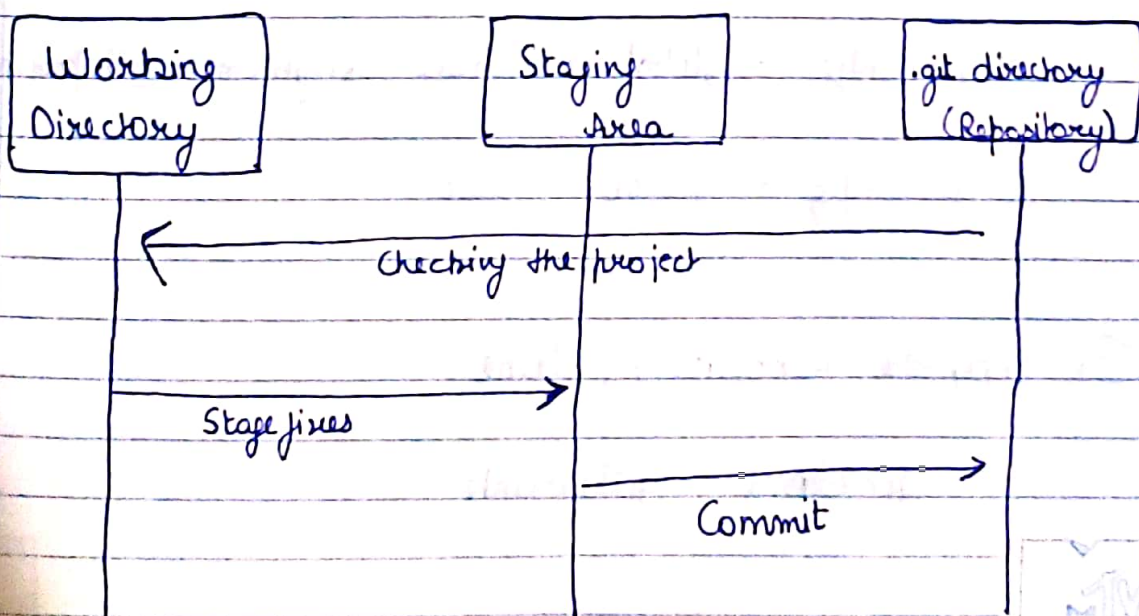Saralpreet Singh
802032041

The 3rd Course

Git Started with Github

- Git is free and open source distributed version control system designed to handle everything from small to very large project with speed and efficiency.
- Git is easy to learn and has a tiny footprint with lighting fast performance. It outclasses SCM tools like Subversion, CVS, perforce, and clear Case with features like cheap local branching, convenient staging areas, and multiple workflows.

- Gi three Stages
  ① Modified : means that you changed the file but have not committed it to your database yet.

  ② Staged : means that you have marked a modified file in its current version to go into your next commit snapshot.

  ③ Commited : means that the data is safely stored in your local database

| Working Directory | Staging Area | .git directory (Repository) |

Checking the project

Stage files

Commit

- **Git Hub:**

  Github, Inc. is a provider of Internet hosting for software development and version control using Git. It offers the distributed version control and source code Management (SCM) functionality of Git, plus its own features. It provides access control and several collabration features such as bug tracking, features requests, task management, continous integration and wikis for every project.

  Github offers it basics services for free of charge. Its more advanced professional and enterprise services are commerical. Free Github accounts are commonly used to host open-source projects.

- **Git Commonds**

① **Git Configuration**

  a) git version

  b) git config --global user.name "Saralpreet Singh"

  c) git config --global user.email "ssinghl_me20@thapar.edu"

  d) git config --global --list

② **Copy the Repository (Clone)**

  git clone 'github link'

③ Git Exploring

git -- help

④ Git Intialization

git init

⑤ Basic Git Operations

a) git add 'filename'

b) git status

c) git commit -m "first commit"

⑥ B Publishing changes to Github

git push origin master