**MINI-PROJECT: INDIVIDUAL**

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**Team 3**

1. what is git? GIT is a version control system (VCS) used for source code management

2. what do you understand by version control? Version control refers to the ability to allow multiple users add to a code while updating and tracking all the changes without any code conflicts.

3. How can you contribute to a project in github?:

- Do a git clone to download a copy of the remote project repository from github to the local git repository.

- On the local pc, using wsl in vs code, do a git branch to create a new branch of the main branch, make changes to the file.

- do git add to move the file to staging area, git commit to commit file to local repo.

- do git push to push the committed branch upstream to remote repo.

- in github, open the project code and create a pull request.

- the assigned senior engineer will review and approve the contributions, merge the branch to main branch and delete the contributor branch.

4. Create a file called "yourname" and push to your remote repository

Graphical user interface, text, application, email

Description automatically generated

5. complete the following commands by stating their use cases:

- git init: this is a command used to create (initialize) an empty git repository or reinitialize an existing repository.

- git pull: used to update local working branch with all new commits from the corresponding remote branch.

- git push: the command to upload or send commits from local repository to remote repository.

- git add $filename: used to add a new or updated file to the staging area.

- git clone: this is the command used to download a repository (including files, branches and commits) or project from github to a local repository.

- git branch; used to create a copy of the main code in a separate file.

- git checkout: used to create a new branch and check out in it.

- git commit: used to save changes in staged area to a local repository.

- git switch: used to change from one branch to another.

- git config --global user.name: used to set global (for all repositories) commit username in git.

- git config --global user.email: used to set global (for all repositories) email in git

- git fetch: used to download a file, branch, commit, tag from a remote repository.

- git remote -v: used to show a list of the remote repositories associated with the local repository.

- git remote add: used to add a remote to the local repository.