**TEAM:**

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**TEAM’S GITHUB REPO FOR TESTING:**

* <https://github.com/ZINAHAL/os_test>

**DISCUSSION:**

What is GitHub?

* GitHub is an Internet hosting service for software development and version control using Git. It is a website and cloud-based service that assists developers in storing and managing code, as well as tracking and controlling changes to their code. It provides the distributed version control of Git plus access control, bug tracking, software feature requests, task management, continuous integration, and wikis for every project

Using branching and merging on your local machine to manage code versioning

* A second branch was created called secondBranch
* Git commands: git checkout main | git merge secondBranch

How does Clone differ from Fork?

* Fork is copying a GitHub repository from one user account to another. Anything that happens in the original repository will not be reflected on the copied version.
* Fork is done on the Github website
* Clone is downloading a repository from GitHub into the local machine. In the process, a connection is created between the local machine and GitHub, allowing the user to automatically push and pull any changes that happen.
* Clone is done with the command: git clone <https://githubRepoURL>

Pushing changes to a repository to GitHub

* Git command:
  + git add file.name
  + git commit –m “created a new file”
  + git push origin main OR git push origin secondBranch (if the file was created after switching secondBranch)

What is a Pull request?

Also known as merge request. This is when changes created in the Forked repository need to be reflected on the original repository, a pull request is required, and this is done in the GitHub site.

How do you deal with merge conflicts?

1. git merge --abort
2. Edit the conflicted file
3. Then commit/merge the new changes

User management and security