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15  
SIB 1G

**Jobsheet 2**

**Question**

1. Explain the difference between git commit and git push?

Answer :

**Git Commit**

Saves changes made to the local repository.

Records and tracks changes to the repository with each commit pointing to a tree object that captures the state of the repository at that moment the commit was performed, all in one complete snapshot

Creates a snapshot of the metadata and saves it in the local repository

Saves changes only to the local repository but not to the remote repository

**Git Push**

Updates the remote repository with the changes made in the local repository

Allows you to send committed changes to the remote repository where all developers can access them

Interacts with a remote repository Pushing comes after committing.

1. In the above steps, we firstly create a repository in Github then clone it to the local

computer to be modified. Is it possible to create the project folder and then push

(upload) it to Github? Proove it!

Answer :

Yes, it is possible to create a project folder and then push (upload) it to Github. Here are the steps to follow

Create a new repository on Github.com.

* On your local computer, create a new folder for your project.
* Add files to the folder on your local computer.
* Open Terminal or Git Bash on your local computer.
* Navigate to the root directory of your project.
* Initialize the local directory as a Git repository.
* Add the files to the local repository using git add . command.
* Commit the changes to the local repository using git commit -m "commit message for make description" command.
* Push the changes in your local repository up to the remote repository you specified as the origin using git push -u origin main command.

Question!

1. What is the use of Pull requests?

Answer:

Pull requests are a feature in Git that allows developers to propose changes to a codebase and request that someone else review and approve those changes before they are merged into the main branch. Pull requests are commonly used in collaborative development environments where multiple developers are working on the same codebase. Here are some key uses of pull requests:>

* Propose changes to a codebase: Developers can use pull requests to propose changes to a codebase and request that someone else review and approve those changes before they are merged into the main branch
* Collaboration: Pull requests allow developers to collaborate on a codebase by proposing changes, discussing them, and making improvements before they are merged into the main branch

1. Why do we need to create branch?

Creating a branch is important in Git because it allows developers to work on new features or bug fixes without affecting the main branch of the codebase.

* Isolation: Creating a branch allows developers to work on new features or bug fixes in isolation without affecting the main branch of the codebase
* Collaboration: Branches allow multiple developers to work on the same codebase simultaneously without interfering with each other's work
* Version control: Branches provide a way to track changes to a codebase over time and maintain a history of all changes made to the codebase.

Question!

1. What steps do you take to invite team members to join your board?

Answer:

* To invite team members to join your Trello board, you can follow these steps
* Open the board you want to invite members to.
* Click on the "Invite" button located on the right side of the board.
* Enter the name or email address of the person you want to invite.
* Select the permission level you want to assign to the person you are inviting (admin, member, observer).
* Click the "Send Invitation" button to send the invitation.

1. Is it possible to make a board not from scratch (adding a list one by one), if so, how

we can do that?

Yes, it is possible to create a Trello board not from scratch by adding a list one by one. Here are the steps to follow

* Create a new board by clicking on the "Create new board" button on the Trello homepage.
* Give your board a name and click the "Create" button.
* Click on the "Add a list" button on the right side of the board.
* Enter a name for the list and click the "Add List" button.
* Repeat steps 3 and 4 to add additional lists to your board.

3. Assignment

Time: 60 minutes

1. Make groups/teams, and there are 3 students in each team!

2. Create a repository based on the topic chosen by your group, invite all team members

to the repository.

3. Create a Kanban Board with a board title complete with cards according to the project

topic your group has chosen, invite all team members to the board

