

20-June-2024

Training Day - 3 Report:

Learning Basic Git Commands: Add, Commit, Push, and Repository Cloning

Concept

Today's focus was on mastering fundamental **Git commands** for efficient version control and collaboration, including **git add**, **git commit**, **git push**, and **git clone**.

Key Highlights

1. **Git Basics:** Explored the role of Git in tracking changes and supporting collaborative development.
2. **Hands-On Practice:** Learned to stage changes with **git add**, commit them with **git commit**, push updates to a remote repository with **git push**, and clone repositories using **git clone**.
3. **Challenges:** Gained clarity on branches and emphasized the importance of clear commit messages for effective project management.

Steps to Add Files to GitHub Using CLI

1. Initialize a Git repository in your project directory using **git init**.
2. Create or add the files you want to upload to the repository.
3. Stage the files for commit using **git add <file_name>** (or use **git add .** to stage all files).
4. **Commit** the staged changes with a descriptive message using **git commit -m "Your commit message"**.
5. Add the remote GitHub repository URL using **git remote add origin https://github.com/username/repository.git**.
6. **Push** the committed changes to the remote repository using **git push -u origin main** (or replace main with your branch name, such as master).

This process ensures your files are added to the GitHub repository.

Steps to Clone a Repository Using CLI

1. Open your terminal or command-line interface.
2. Navigate to the directory where you want to clone the repository using the `cd` command.
3. Copy the repository URL from GitHub (usually found under the "Code" button in the repository).
4. Run the command `git clone <repository_URL>`, replacing `<repository_URL>` with the URL of the repository.
5. `git clone https://github.com/username/repository.git`
6. After the **cloning** process is complete, navigate into the cloned repository directory using `cd <repository_name>`.

The repository is now cloned, and you can start working on it locally.