

Collaborative Git Workflow

Let's assume that the two people are Alice and Bob. Alice will be the one who creates the project and Bob will be the one who clones the project, makes changes, and then pushes the changes back to the project.

1. Alice creates a new directory for the project

- Alice navigates to the location on her local device where she wants to create the project folder.

```
cd C:\Users\Alice\Documents
```

- She then creates a new directory for the project.

```
mkdir MyProject
```

- Navigate into the newly created project directory.

```
cd MyProject
```

2. Alice initializes a Git repository

- In the project directory, Alice initializes a new Git repository.

```
git init
```

3. Alice adds some files to the project

- Alice creates a new file in the project and adds some content to it.

- She then stages and commits the new file.

```
git add hello.txt (exemple name file)
git commit -m "Initial commit"
```

4. Alice pushes the project to a remote repository (e.g., GitHub or GitLab)

- Alice first needs to create a new repository on GitHub or GitLab. She will not initialize it with a README, .gitignore, or License. This new repository is where she'll push her local repository.
- She then connects her local repository to the remote repository (replace `<repository_url>` with the actual URL of the remote repository).

```
git remote add origin <repository_url>
```

- Finally, Alice pushes her local repository to the remote repository.

```
git push -u origin master
```

5. Bob clones the project to his local device

- Bob navigates to the location on his local device where he wants to clone the project.

```
cd C:\Users\Bob\Documents
```

- Bob clones the repository (replace `<repository_url>` with the actual URL of the remote repository).

```
git clone <repository_url>
```

- Bob navigates into the newly cloned repository.

```
cd MyProject
```

6. Bob makes changes to the project

- Bob creates a new file in the project and adds some content to it.
- Bob stages and commits the new file.

```
git add hello_alice.txt  
git commit -m "Added hello_alice.txt"
```

7. Bob pushes his changes to the remote repository

- Bob pushes his changes to the remote repository.

```
git push origin master
```

8. Alice pulls Bob's changes from the remote repository

- Alice pulls Bob's changes from the remote repository.

```
git pull origin master
```