Sure, here's a step-by-step guide on how to work on a collaborative repository using Git, along with the corresponding commands for each step:

1.

Clone the Repository:



Replace `<repository_url>` with the URL of the repository you want to clone. This command will create a local copy of the repository on your machine.

2.

Navigate to the Repository Directory:



3.

Create a New Branch:



Create a new branch to work on your changes. Replace `

'

* with a descriptive name for your branch.

4.

Make Changes:

```
arduino

Copy code

// Make changes to files in your project
```

5.

Stage Changes:



Stage the changes you've made. This prepares them to be included in the next commit.

6.

Commit Changes:

```
sql

git commit -m "Your commit message"
```

Commit your changes with a descriptive message explaining what you've done.

7.

Push Changes to Remote Repository:

```
perl

git push origin <branch_name>
```

Push your changes to the remote repository. Replace `

'stanch_name>` with the name of your branch.

8.

Create a Pull Request:

- Go to the repository's page on the hosting platform (e.g., GitHub, GitLab).
- Create a new pull request by selecting your branch and the branch you want to merge into (usually 'main' or 'master').
- Provide a title and description for your pull request, explaining what changes you've made.

9.

Review Changes:

• Other team members can review your pull request, leave comments, and suggest changes.

10.

Merge Pull Request:

• If there are no conflicts and the changes are approved, the pull request can be merged into the main branch.

11.

Fetch Latest Changes (Optional):



Fetch the latest changes from the remote repository. This ensures your local repository is up-to-date with the changes made by other team ψ mbers.

12.

Switch to Main Branch:



Switch to the main branch to continue working on new features or fixes.

13.

Merge Changes into Main Branch:



Merge changes from your feature branch into the main branch.

Push Changes to Remote Repository:



Push the changes in the main branch to the remote repository.

By following these steps, you can effectively collaborate with others on a shared repository, making changes, reviewing each other's work, and integrating changes into the main branch.