

# Github Collaboration Protocol

# Team members

- Author
  - It owns an original repository
- Contributor(s)
  - It aims to contribute to the author's repository

# Steps for Contributors (1/2)

Step 0: Before you make any changes make sure that you make changes into the latest version of your repository

```
git pull <author-repo-url> main
```

Step 1: Fork the author's repo to your own account.

This would create a repository in contributor's GitHub account.

Step 2: Clone the contributor's GitHub repository to your local machine.

```
git clone <repo-url>
```

Step 3: Create a new branch (Do not make changes on `main` branch)

```
git branch (To list all the branches)
```

```
git checkout -b <branch-name>
```

(To create a branch name and then switch to the branch name, e.g., git checkout\_error1)

checkout

# Steps for Contributors (2/2)

Step 4: Make necessary changes to the repository on local computer.

Step 5: Add files

```
git add .
```

Step 6: commit changes

```
git commit -m <commit message>
```

Step 7: Push changes to the forked repository

```
git push <repo-url>
```

Step 8: Create a pull request

Go to your forked repository. You may see a your recently pushed branches and so choose **“compare and pull request”**

# Steps for Authors

- Step 1: From your project repository, checkout a new branch and test the changes

```
git checkout -b <contributorName-branchName> main  
(e.g., git checkout -b ppankesh-test1 main)
```

```
git pull <contributor-repo-url> <branchName>  
(e.g., git pull https://github.com/ppankesh/test-repository.git test1)
```

# Steps for Authors

- Step 2: Merge the changes and update on Github

```
git checkout main
```

```
git merge --no-ff <author-branch>
```

```
(e.g., git merge --no-ff <author-branch>ppankesh-test1 )
```

```
git push origin main
```