Lesson 02 Demo 03

Creating a Pull Request in Git

Objective: To create a pull request for merging the local changes into a remote Git

repository

Tools required: Git and GitHub

Prerequisites: You need to have Git installed to proceed with this demo.

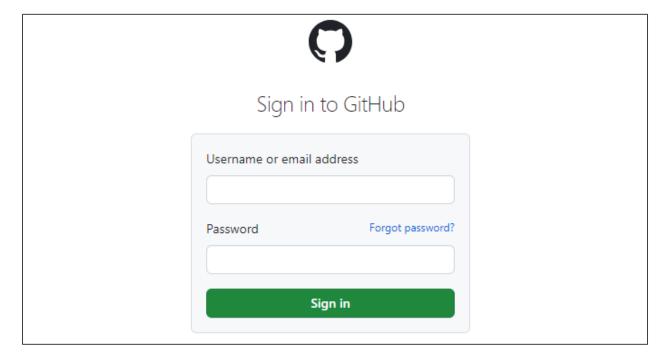
Steps to be followed:

1. Create a fork

- 2. Clone the fork
- 3. Sync the fork with the original repository
- 4. Push changes to the GitHub fork
- 5. Create a pull request

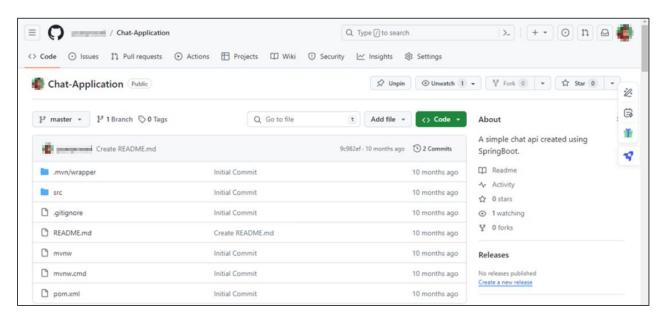
Step 1: Create a fork

1.1 Open the browser in your lab, go to github.com, and log in to your account

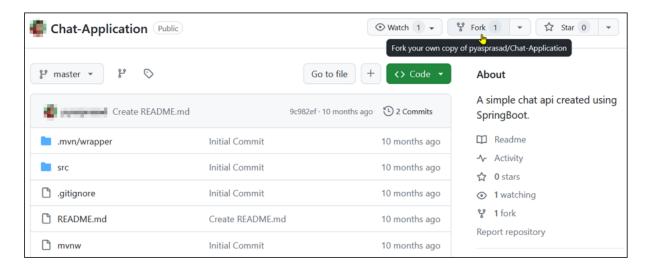


Note: If you do not have a GitHub account, visit the official website at https://github.com/signup and create a new account

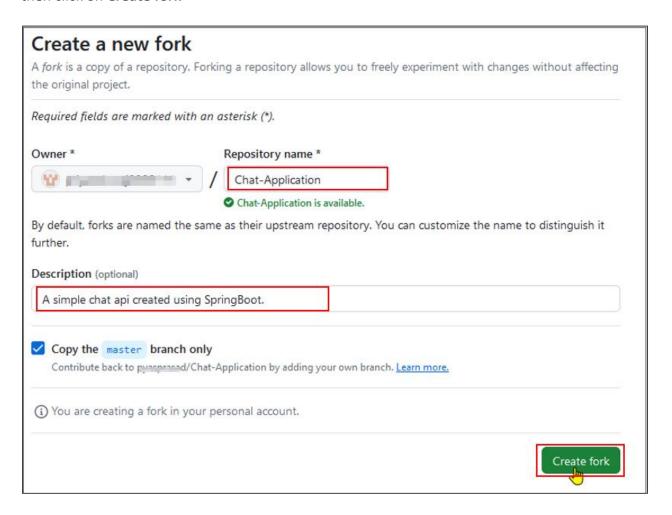
1.2 Navigate to the following repository in your browser: https://github.com/GithubResources1/Chat-Application



1.3 Click the Fork button in the top-right corner of the page

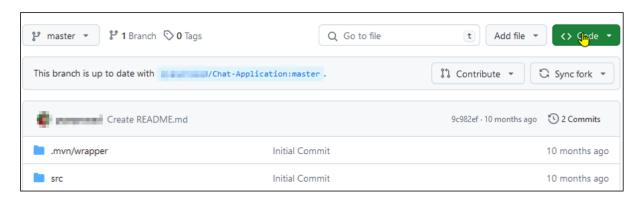


1.4 In the **Create a new fork** page, enter the name and description of the forked repository, then click on **Create fork**

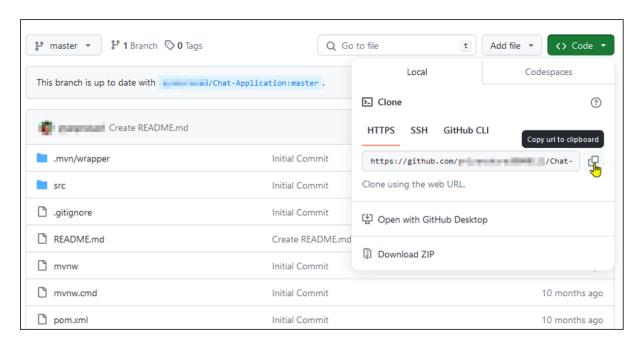


Step 2: Clone the Fork

2.1 Click on the **Code** button in the forked repository page



2.2 Click on the copy icon to copy the HTTPS URL of the forked repository to clone it



2.3 Open the terminal tab on your lab and use the following command to clone the forked repository inside the local project directory:

git clone <URL>

```
priyanshurajsim@ip-172-31-28-201:~/Pyas$ git clone https://github.com/p
Cloning into 'Chat-Application'...
remote: Enumerating objects: 46, done.
remote: Counting objects: 100% (46/46), done.
remote: Compressing objects: 100% (35/35), done.
remote: Total 46 (delta 3), reused 42 (delta 2), pack-reused 0
Receiving objects: 100% (46/46), 67.79 KiB | 22.59 MiB/s, done.
Resolving deltas: 100% (3/3), done.
priyanshurajsim@ip-172-31-28-201:~/Pyas$
```

Note: Replace the URL with the copied HTTPS URL from the repository

Step 3: Sync the fork with the original repository

3.1 Navigate to the directory where the fork has been cloned using the following command in the terminal:

cd Chat-Application

```
priyanshurajsim@ip-172-31-28-201:~/Pyas$ cd Chat-Application
priyanshurajsim@ip-172-31-28-201:~/Pyas/Chat-Application$
```

3.2 Run the following command to view the configured remote repository for your fork: git remote -v

```
priyanshurajsim@ip-172-31-28-201:~/Pyas/Chat-Application$ git remote -v
origin https://github.com/priyanshuraj0000111/Chat-Application.git (fetch)
origin https://github.com/priyanshuraj0000111/Chat-Application.git (push)
priyanshurajsim@ip-172-31-28-201:~/Pyas/Chat-Application$
```

3.3 Add the original repository as a remote upstream using the following command: git remote add upstream <URL>

```
priyanshurajsim@ip-172-31-28-201:~/Pyas/Chat-Application$ git remote add upstream https://github.com/priyanshuraj0000111/Chat-Application.gi
```

Note: Replace the URL with the copied URL from the repository

3.4 Execute the following command to verify the new upstream repository: git remote -v

```
priyanshurajsim@ip-172-31-28-201:~/Pyas/Chat-Application$ git remote -v
origin https://github.com/priyanshuraj0000111/Chat-Application.git (fetch)
origin https://github.com/priyanshuraj0000111/Chat-Application.git (push)
upstream https://github.com/priyanshuraj0000111/Chat-Application.git (fetch)
upstream https://github.com/priyanshuraj0000111/Chat-Application.git (push)
priyanshurajsim@ip-172-31-28-201:~/Pyas/Chat-Application$
```

Step 4: Push changes to the GitHub fork

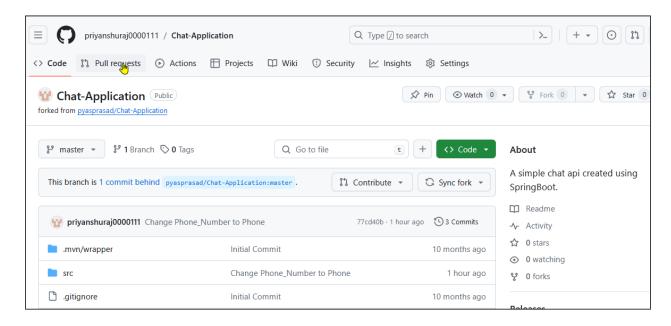
4.1 After making changes in the local code repository, execute the following command to push the changes to your GitHub fork: git push

```
priyanshurajsim@ip-172-31-28-201:~/Pyas/Chat-Application$ git push
Username for 'https://github.com': priyanshuraj3300111@github.com':
Password for 'https://priyanshuraj3300111@github.com':
Everything up-to-date
priyanshurajsim@ip-172-31-28-201:~/Pyas/Chat-Application$
```

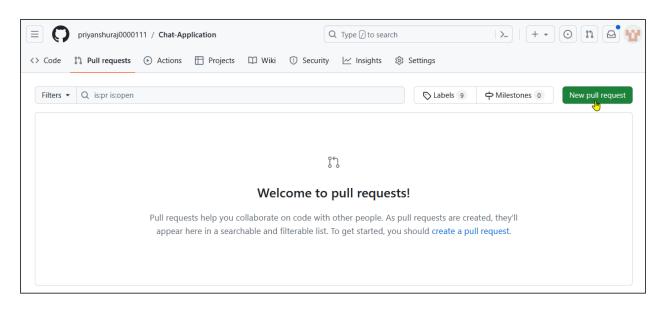
Note: After executing the Git push command, you will be asked to enter the username and password for your GitHub account.

Step 5: Create a pull request

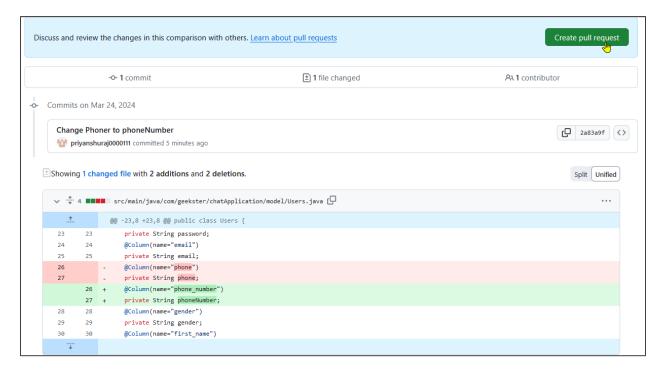
5.1 Click the Pull requests button on your GitHub fork's page

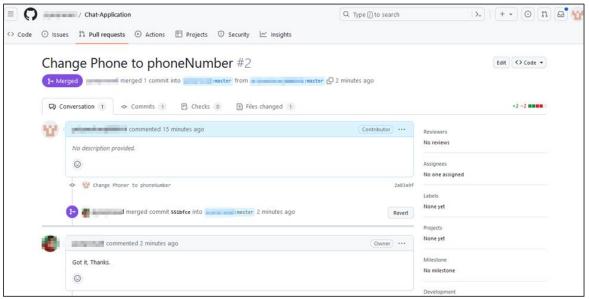


5.2 Click the New pull request button



5.3 Select the Create pull request button and resolve the merge comments





By following these steps, you have successfully created a pull request for merging the local changes into a remote Git repository.