

GitHub







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Introduction to GitHub

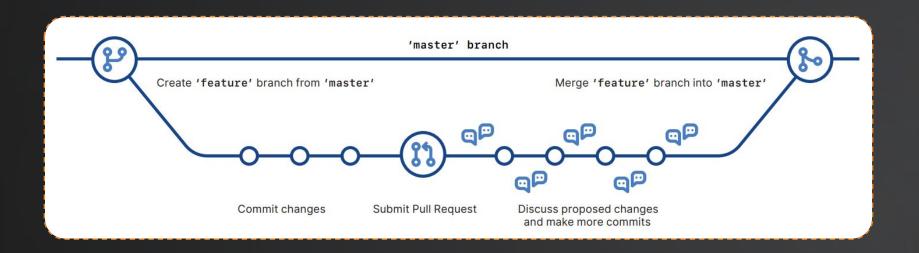
GitHub is a platform where you can upload a copy of your Git repository (often shortened as repo), hosted either on github.com.





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GitHub Flow







Why to use GitHub?

- Version control
- Document requirements
- Collaborate on independent streams of history
- Review work in progress
- See team progress
- Public and Private Repositories





Setting up a GitHub account

- Visit the official GitHub website
- Click on the Signup button
- Complete the sign-up form
- Verify your email address





Linking the GitHub account VS code

- 1. Download and install the visual Studio code
- 2. Install Git
- 3. Enable Git in VS Code
- 4. Create and configure a GitHub account
- 5. Verify that Git is Linked to your GitHub



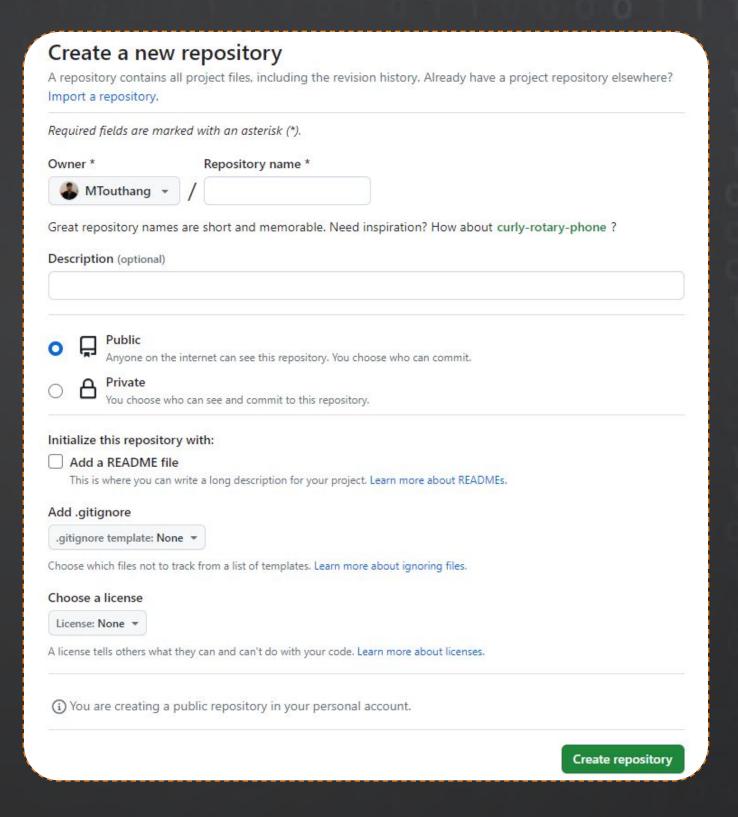




Creating the Repo

Navigate to the repository section in GitHub and click on the **New repository button** and follow the steps below -

- 1. Choose project owner
- 2. Give repo name
- 3. Give repo description (optional)
- 4. Make it Private or Public Repo
- 5. Add README file
- 6. If needed add choose the .gitignore and license file







Pushing code to GitHub

Pushing code to GitHub can be in two ways

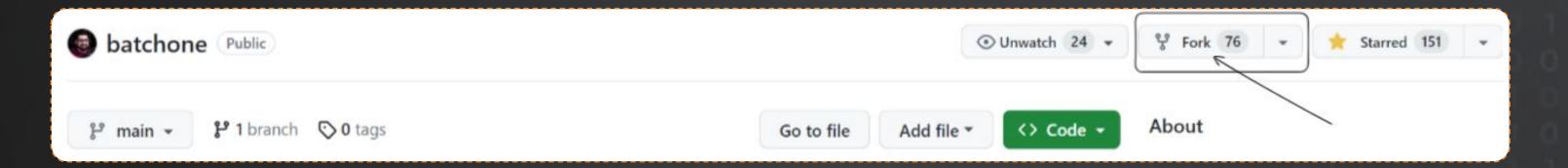
- 1. Create a new project with Git and push it to GitHub(remote) repository
- 2. Push an existing Git project to the GitHub(remote) repository.





Forking an existing repo

Forking on GitHub is a fundamental process that allows you to create a copy of someone else's repository (the "upstream" repository) under your own GitHub account.

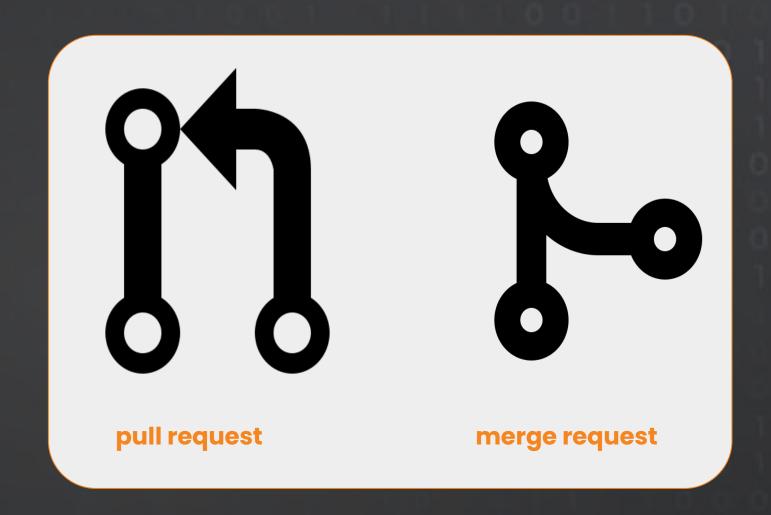






Generating pull requests and merge requests

- Fork and clone the repo
- Create a Branch
- Make changes
- Stage and commit changes
- Sync with the original repository (pull)
- Push the branch
- Open a new Pull request
- Review and Discuss
- Make necessary changes
- Merge the pull request
- Delete the branch (Optional)







Handling merge conflicts

- Identify the conflict files
- Open the conflict files
- Resolve the conflicts
- Stage and commit
- push





Hosting a website on GitHub Pages

- Create a GitHub Repository
- Push Your website files to the Repository
- Setup and enable the GitHub Pages
- Access your web page







Alternative of GitHub

- GitLab
- BitBucket
- SourceForge
- Launchpad
- Gitea













THANKYOU