A screenshot of the GitHub homepage. The background features a vibrant, abstract image of a celestial body, possibly Mars, with a thin atmosphere and a satellite in orbit. At the top, there's a navigation bar with links for "Product", "Solutions", "Open Source", and "Pricing". A search bar and "Sign in" and "Sign up" buttons are also present. In the center, a callout box introduces "GitHub Copilot X" with the text "Your AI pair programmer is leveling up". Below this, a large, bold headline reads "Let's build from here". A subtext below the headline says "Harnessed for productivity. Designed for collaboration. Celebrated for built-in security. Welcome to the platform developers love." At the bottom, there are fields for "Email address", "Sign up for GitHub", and "Start a free enterprise trial".

[github.com](https://github.com)

## Description

GitHub, Inc. is an Internet hosting service for software development and version control using Git. It provides distributed version control access, bug tracking, software feature requests, task management, and continuous integration for every project.

[Wikipedia](#)

Parent organization: [Microsoft Corporation](#)

CEO: [Thomas Dohmke](#) (15 Nov 2021–)

Founders: [Tom Preston-Werner](#), [Chris Wanstrath](#), [P. J. Hyett](#), [Scott Chacon](#)

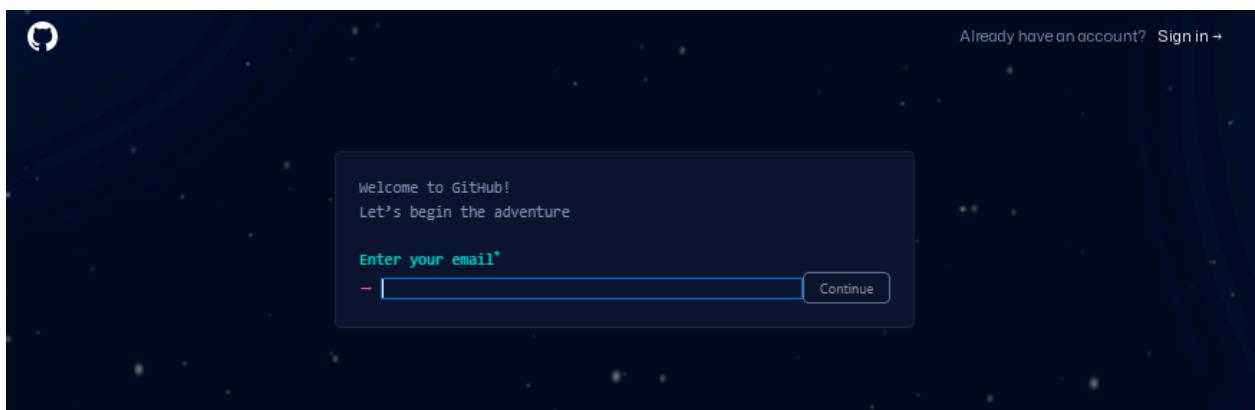
Founded: 2008

Headquarters: [San Francisco, California, United States](#)

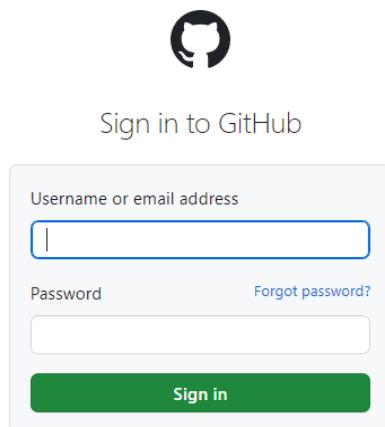
## What is a Version Control System?

The Git version control system, as the name suggests, is a system that records all the modifications made to a file or set of data so that a specific version may be called up later if needed. The system makes sure that all the team members are working on the file's latest version, and everyone can work simultaneously on the same project.

**Sign up -**



**After sign up - login to github**



## Git Bash -

To run git commands, we first need to install git bash.

<https://git-scm.com/downloads>



## Git commands -

- > create your git account from github.com
- > First install git bash.
- > go to your code root folder , where you have your package.json file.
- > **git init**
- > create a .gitignore file and add node\_modules like below.
- /node\_modules

```
> git add . (adding all new or modified files also known as  
staging )
```

```
> git commit -m "commit message here" (commit your files to  
master branch)
```

### **Now create a new repo in your github.**

```
> git remote add origin your_repo_url
```

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

```
===== Take Latest =====
```

```
> git pull origin (take latest before start work)
```

```
> git status (check modified files)
```

```
> git diff (show diff)
```

```
===== Stashing your changes =====
```

```
> git stash
```

```
> git stash apply
```

```
=====
```

---

---

```
BUDHA@BUDHA-PC MINGW32 /d/Edurieify/todoApp/todo-app (master)
```

```
$ git remote -v
```

```
BUDHA@BUDHA-PC MINGW32 /d/Edurieify/todoApp/todo-app (master)
```

```
$ git remote add origin
```

```
https://github.com/sandeepkrgupt/TodoApp.git
```

```
BUDHA@BUDHA-PC MINGW32 /d/Edurieify/todoApp/todo-app (master)
```

```
$ git remote -v
```

```
origin https://github.com/sandeepkrgupt/TodoApp.git (fetch)
```

```
origin https://github.com/sandeepkrgupt/TodoApp.git (push)
```

```
BUDHA@BUDHA-PC MINGW32 /d/Edurieify/todoApp/todo-app (master)
```

```
$ git add .
```

```
warning: LF will be replaced by CRLF in package-lock.json.
```

The file will have its original line endings in your working directory

warning: LF will be replaced by CRLF in package.json.

The file will have its original line endings in your working directory

warning: LF will be replaced by CRLF in src/App.js.

The file will have its original line endings in your working directory

warning: LF will be replaced by CRLF in src/index.js.

The file will have its original line endings in your working directory

BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)

**\$ git status**

On branch master

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

```
modified:    package-lock.json  
  
modified:    package.json  
  
modified:    src/App.js  
  
new file:   src/component/TodoApp.js  
  
new file:   src/component/todo.css  
  
modified:    src/index.js  
  
new file:   src/redux/actions.js  
  
new file:   src/redux/reducer.js  
  
new file:   src/reduxStore.js
```

BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)

```
$ git commit -m "committing All TOdo App Files"
```

[master a77b182] committing All TOdo App Files

9 files changed, 354 insertions(+), 43 deletions(-)

BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)

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

Enumerating objects: 36, done.

Counting objects: 100% (36/36), done.

Delta compression using up to 4 threads

Compressing objects: 100% (36/36), done.

Writing objects: 100% (36/36), 315.37 KiB | 2.63 MiB/s, done.

Total 36 (delta 5), reused 0 (delta 0), pack-reused 0

BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)

**\$ git status**

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)

**\$ git push origin master**

Everything up-to-date

BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)

## RSA Token

```
ssh-keygen -t rsa -b 4096 -C "your_email@example.com"
```

```
$ git pull
```

```
remote: Enumerating objects: 3, done.
```

```
remote: Counting objects: 100% (3/3), done.
```

```
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
```

```
Unpacking objects: 100% (3/3), 625 bytes | 4.00 KiB/s, done.
```

```
From https://github.com/sandeepkrgupt/TodoApp
```

```
* [new branch]      main      -> origin/main
```

```
Already up to date.
```

```
BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)
```

```
$ git branch
```

```
* master
```

```
BUDHA@BUDHA-PC MINGW32 /d/Eduriefy/todoApp/todo-app (master)
```

```
$ ssh-keygen
```

```
Generating public/private rsa key pair.
```

```
Enter file in which to save the key
```

```
(/c/Users/BUDHA/.ssh/id_rsa):
```

```
Created directory '/c/Users/BUDHA/.ssh'.
```

```
Enter passphrase (empty for no passphrase):
```

```
Enter same passphrase again:
```

```
Your identification has been saved in /c/Users/BUDHA/.ssh/id_rsa
```

```
Your public key has been saved in /c/Users/BUDHA/.ssh/id_rsa.pub
```

```
The key fingerprint is:
```

```
SHA256:hxTcgeqPV2YqO+kOR8KMC0SOKv7WUF0VykPl14PKwv0
```

```
BUDHA@BUDHA-PC
```

## **Create New Branch From Master and push files -**

```
BUDHA@BUDHA-PC MINGW32 /d/FoodBlog/food-blog (master)
```

```
$ git checkout -b sandeep_figma_proj
```

```
BUDHA@BUDHA-PC MINGW32 /d/FoodBlog/food-blog (master)
```

```
$ git branch
```

```
* master
```

```
sandeep_figma_assignment
```

```
sandeep_figma_proj
```

```
BUDHA@BUDHA-PC MINGW32 /d/FoodBlog/food-blog (master)
```

```
$ git status
```

```
modified:   src/App.js
```

```
BUDHA@BUDHA-PC MINGW32 /d/FoodBlog/food-blog  
(sandeep_figma_proj)
```

```
$ git add .
```

```
BUDHA@BUDHA-PC MINGW32 /d/FoodBlog/food-blog  
(sandeep_figma_proj)
```

```
$ git commit -m "app js file"
```

```
BUDHA@BUDHA-PC MINGW32 /d/FoodBlog/food-blog  
(sandeep_figma_proj)
```

```
$ git push origin sandeep_figma_proj
```

