Markdown documentation code of push assembly line on github

Git and GitHub are related but distinct tools used in the field of version control for software development. Here's a breakdown of their differences:

Git

- Git is a distributed version control system (DVCS) that allows developers to track changes in their source code over time.

- It was created by Linus Torvalds in 2005 and is open-source.

- Git operates locally on a developer's machine, providing a command-line interface and a set of commands to manage repositories.

- It allows developers to create branches, make commits, merge changes, and revert to previous versions easily.

- Git does not require a network connection to operate; it functions offline and provides fast performance.

GitHub

- GitHub is a web-based hosting service for Git repositories.

- It was created in 2008 and is owned by Microsoft.

- GitHub provides a platform for collaboration, sharing, and hosting Git repositories on the web.

- It offers additional features such as issue tracking, pull requests, code reviews, project management tools, and more.

- GitHub enables multiple developers to work together on the same project, managing their codebase and merging changes seamlessly.

- It also provides features for forking repositories, contributing to open-source projects, and hosting documentation.

In summary, Git is the version control system itself, whereas GitHub is a hosting platform built around Git, adding web-based collaboration and additional features. Git can be used without GitHub, but GitHub relies on Git as its underlying version control system.

Git	GitHub
Software	Service
Version control	Git repository hosting
Maintained by Linux	Maintained by Microsoft
Open-Source	Free or paid membership
No user management	Built-in user management
Locally installed	Hosted on the web
Minimal external tool configuration	Active marketplace for tool integration
Little to no competition	High competition

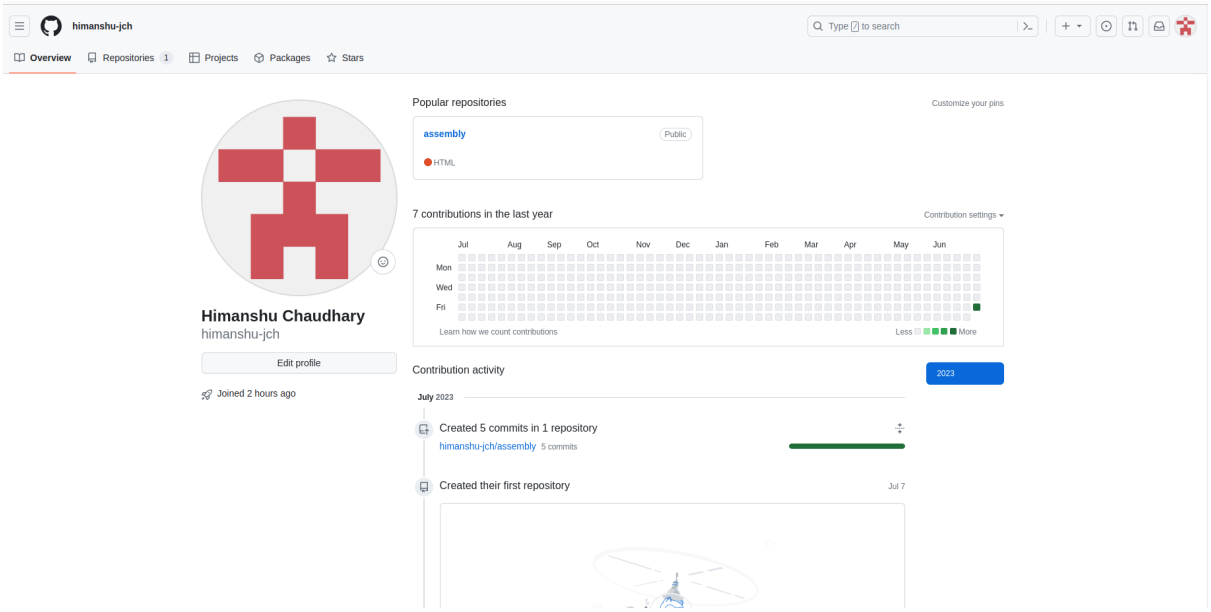
To push an assembly line code to GitHub, follow these step-by-step instructions

Step 1. First, install GitHub and create an account on GitHub.

- sudo apt install git:
- git –version

```
himanshu@123:~$ sudo apt install git
[sudo] password for himanshu:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  app-install-data-partner bsdmainutils crda g++-9 gcc-10-base
  gir1.2-clutter-1.0 gir1.2-clutter-gst-3.0 gir1.2-cogl-1.0
  gir1.2-coglpango-1.0 gir1.2-gnomebluetooth-1.0 gir1.2-gtkclutter-1.0
  gnome-getting-started-docs gnome-screenshot grim ippusbxd libamtk-5-0
  libamtk-5-common libasn1-8-heimdal libboost-date-time1.71.0
  libboost-filesystem1.71.0 libboost-iostreams1.71.0 libboost-locale1.71.0
  libboost-thread1.71.0 libbrlapi0.7 libcamel-1.2-62 libcbor0.6 libcdio18
  libcmis-0.5-5v5 libcroco3 libdns-export1109 libedataserver-1.2-24
  libedataserverui-1.2-2 libextutils-pkgconfig-perl libfuse2
  libgdk-pixbuf-xlib-2.0-0 libgdk-pixbuf2.0-0 libgsoap-2.8.91
  libgssapi3-heimdal libgupnp-1.2-0 libhandy-0.0-0 libhcrypto4-heimdal
  libheimbase1-heimdal libheimntlm0-heimdal libhogweed5 libhx509-5-heimdal
  libicu66 libidn11 libisl22 libjson-c4 libjuh-java libjurt-java
  libkrb5-26-heimdal libldap-2.4-2 liblibreoffice-java libllvm12 libmozjs-68-0
  libmpdec2 libneon27-gnutls libnettle7 libntfs-3g883 liborcus-0.15-0
  libperl5.30 libphonenumber7 libpoppler97 libprotobuf17 libpython3.8
  libpython3.8-minimal libpython3.8-stdlib libqpdf26 libraw19
  libreoffice-style-tango libridl-java libroken18-heimdal libsane libsnmp35
  libssl1.1 libstdc++-9-dev libtepl-4-0 libtracker-control-2.0-0
  libtracker-miner-2.0-0 libtracker-sparql-2.0-0 libunoloader-java libvpx6
```

```
himanshu@123:~$ git --version
git version 2.34.1
```



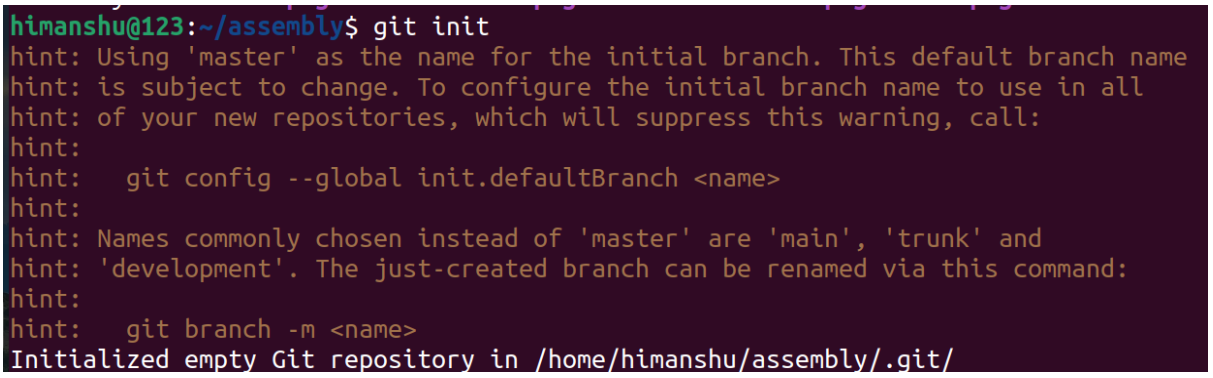
Step 2. **Create a new repository:**

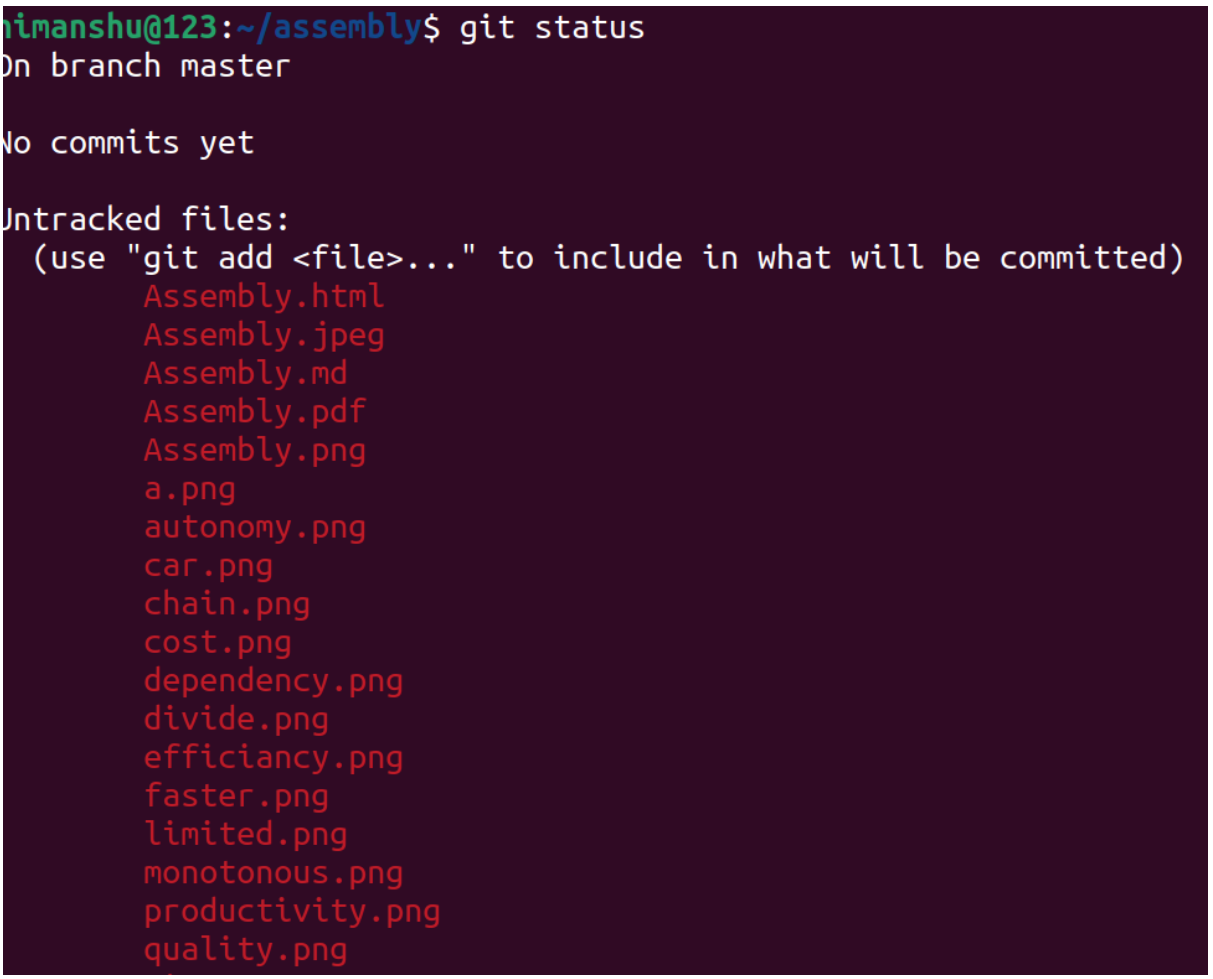
A repository is a place where you can store and manage your code. To create a new repository, click on the "New" button on the left side of your GitHub dashboard. Provide a name for your repository, a brief description, and choose whether you want it to be public (visible to everyone) or private (accessible only to you or collaborators). You can also initialise the repository with a README file, which is a good practice to provide some basic information about your project.

Step 3. **Clone the repository:**

Cloning a repository means creating a local copy on your computer. To clone your repository, click on the green "Code" button on your repository page and copy the repository's URL. Open a terminal or Git Bash on your computer, navigate to the directory where you want to clone the repository, and use the following command:

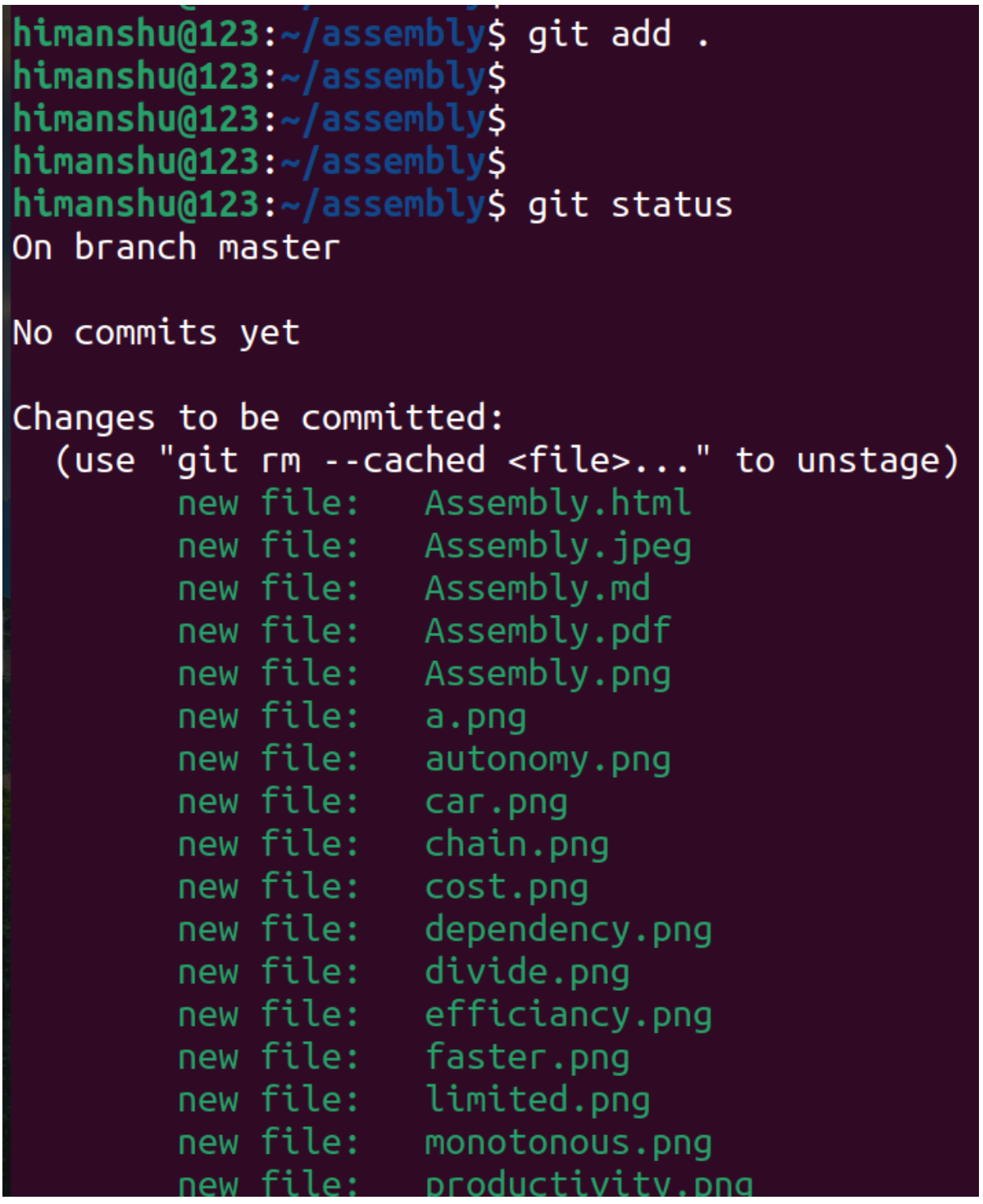
- git clone <repository-url>





Step 4. Add file and check status:

- git add
- git status



Step 5. **Set up Git:**

Before you can start committing code to your repository, you need to set up Git on your local

machine. Download and install Git from the official website (https://git-scm.com). Once installed, open a terminal or Git Bash and configure your Git username and email using the following commands:

- git commit -m “first commit”
- git config --global user.name "Your Name"
- git config --global user.email "your-email@example.com"

```
himanshu@123:~/assembly$ git commit -m "first commit"
Author identity unknown

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'himanshu@123.(none)')
```

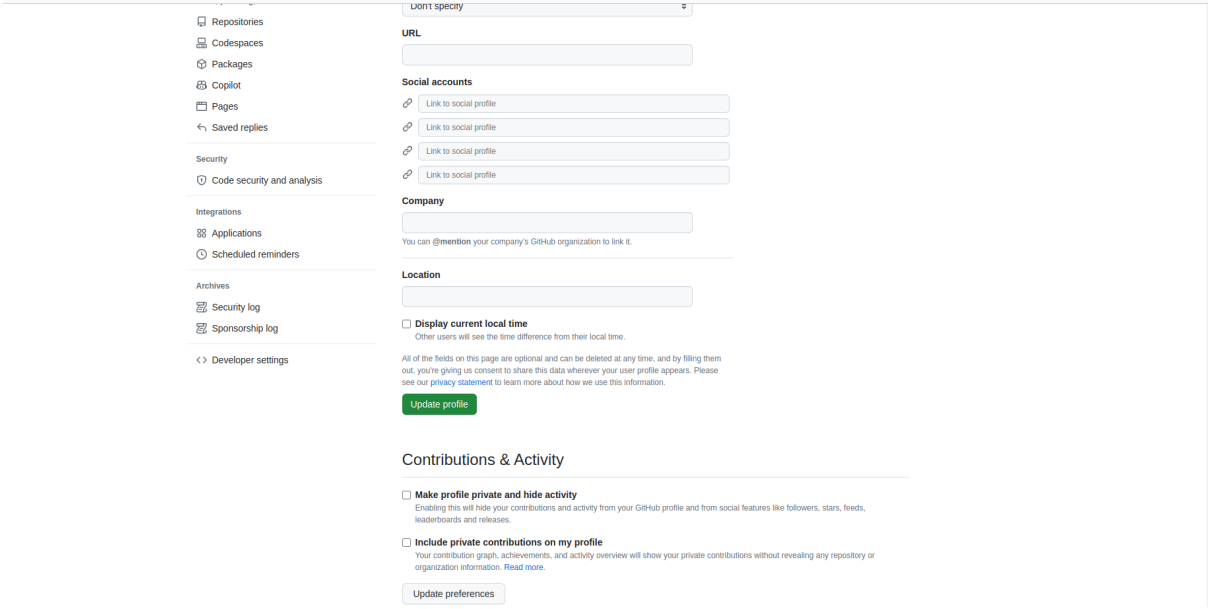
```
himanshu@123:~/assembly$ git config --global user.email "jaathimanshu847@gmail.com"
himanshu@123:~/assembly$
himanshu@123:~/assembly$
himanshu@123:~/assembly$
himanshu@123:~/assembly$ git config --global user.name "himanshu-jch"
himanshu@123:~/assembly$
himanshu@123:~/assembly$
himanshu@123:~/assembly$
himanshu@123:~/assembly$ git config user.name
himanshu-jch
himanshu@123:~/assembly$
himanshu@123:~/assembly$
himanshu@123:~/assembly$
himanshu@123:~/assembly$ git config user.email
jaathimanshu847@gmail.com
```

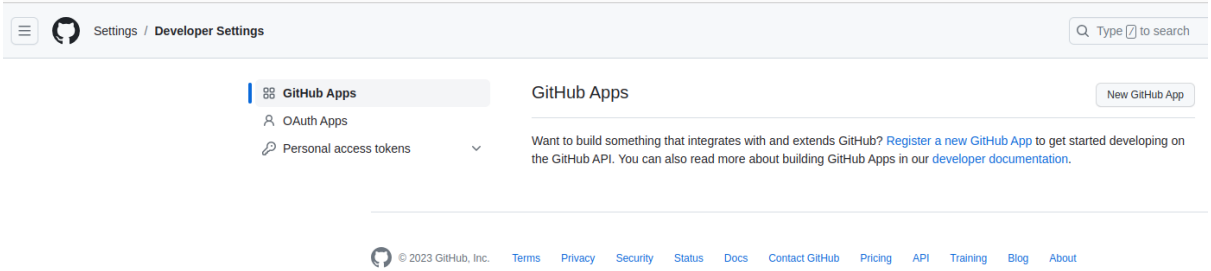
```
himanshu@123:~/assembly$ git commit -m "first commit"
[master (root-commit) 628c1ae] first commit
 20 files changed, 554 insertions(+)
 create mode 100644 Assembly.html
 create mode 100644 Assembly.jpeg
 create mode 100644 Assembly.md
 create mode 100644 Assembly.pdf
 create mode 100644 Assembly.png
 create mode 100644 a.png
 create mode 100644 autonomy.png
 create mode 100644 car.png
 create mode 100644 chain.png
 create mode 100644 cost.png
 create mode 100644 dependency.png
 create mode 100644 divide.png
 create mode 100644 efficiancy.png
 create mode 100644 faster.png
 create mode 100644 limited.png
 create mode 100644 monotonous.png
 create mode 100644 productivity.png
 create mode 100644 quality.png
 create mode 100644 time.png
 create mode 100644 work.png
```

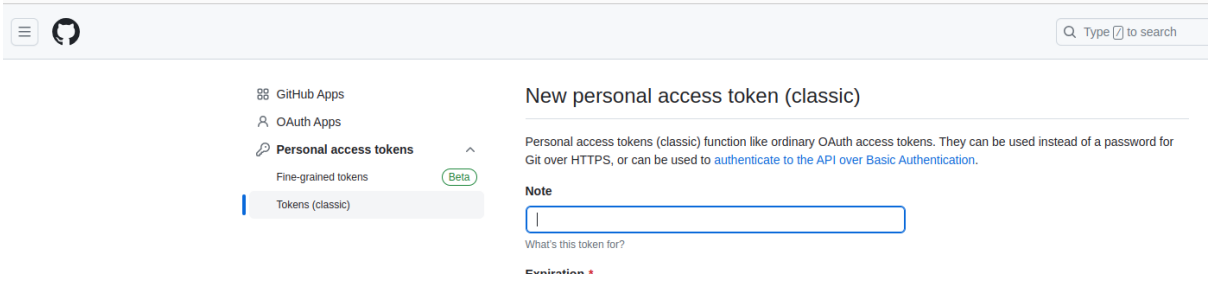
Step 6. Add the git remote origin and push branch.

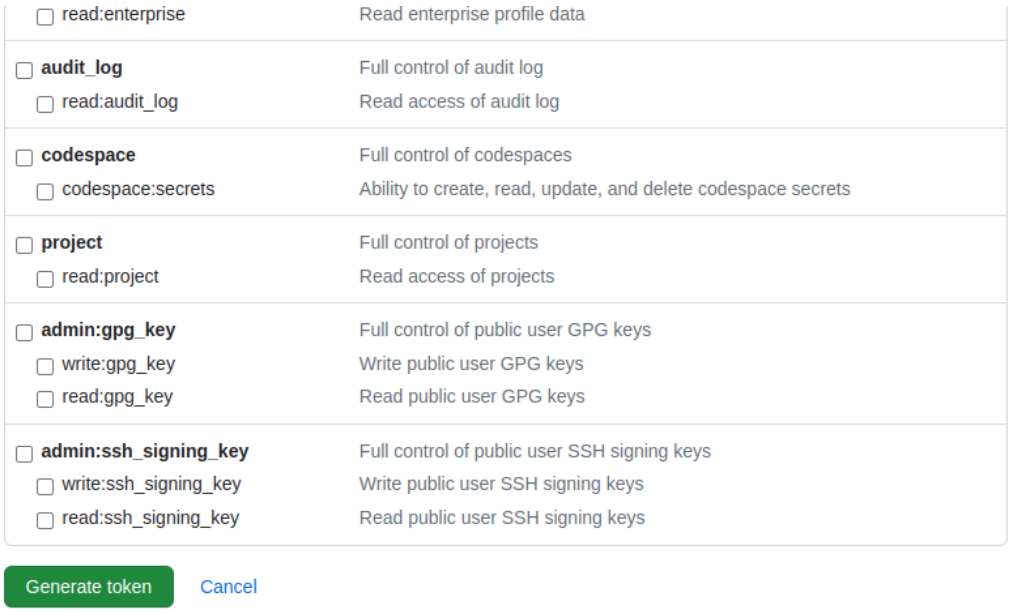
```
himanshu@123:~/assembly$ git remote add origin https://github.com/himanshu-jch/assembly.git
himanshu@123:~/assembly$
himanshu@123:~/assembly$
himanshu@123:~/assembly$
himanshu@123:~/assembly$ git push -u origin master
Username for 'https://github.com': himanshu-jch
Password for 'https://himanshu-jch@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/en/get-started/getting-started-with-git/about-remote-repositories#cloning-with-
https-urls for information on currently recommended modes of authentication.
fatal: Authentication failed for 'https://github.com/himanshu-jch/assembly.git/'
himanshu@123:~/assembly$ git push -u origin master
Username for 'https://github.com': himanshu-jch
Password for 'https://himanshu-jch@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/en/get-started/getting-started-with-git/about-remote-repositories#cloning-with-
https-urls for information on currently recommended modes of authentication.
fatal: Authentication failed for 'https://github.com/himanshu-jch/assembly.git/'
```

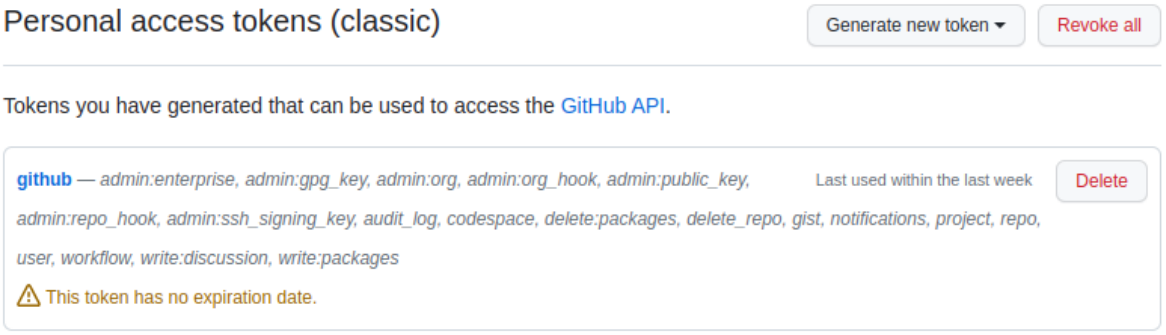
- If you are unable to push to GitHub while following this step, please follow the instructions below.











Step 7. **Push changes to GitHub:**

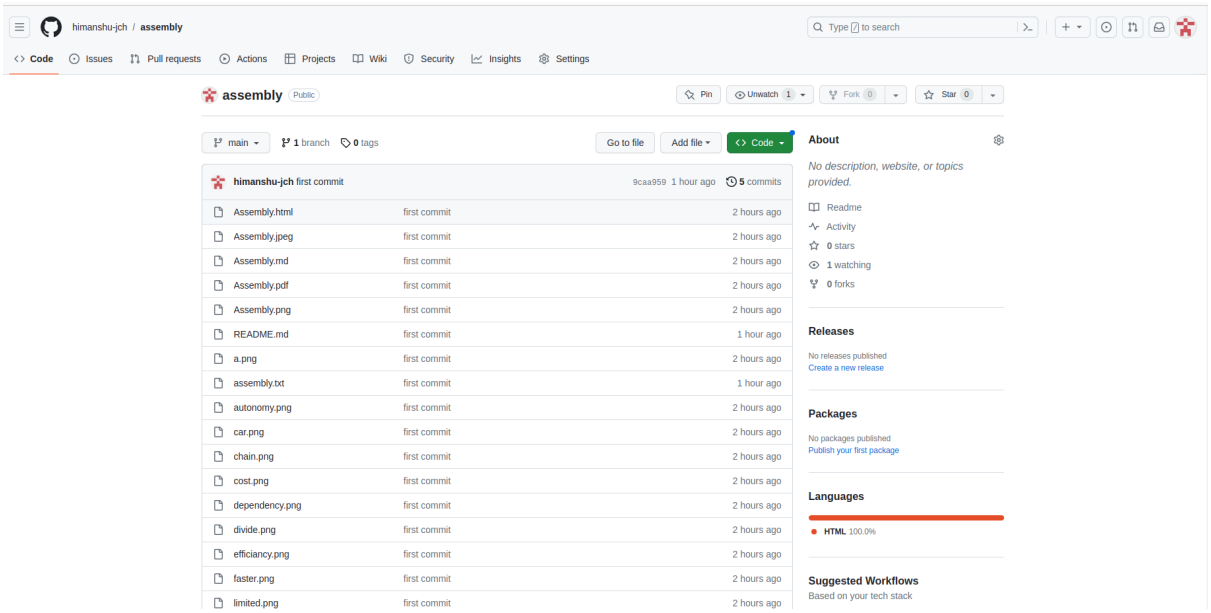
After committing your changes, you can push them to your GitHub repository. Use the following command:

- git push -u origin main

```
himanshu@123:~/assembly$
himanshu@123:~/assembly$ git add README.md
himanshu@123:~/assembly$
himanshu@123:~/assembly$
himanshu@123:~/assembly$ git commit -m "first commit"
[main e0daf0e] first commit
 2 files changed, 137 insertions(+)
 create mode 100644 README.md
 create mode 100644 assembly
```

```
himanshu@123:~/assembly$ git push -u origin main
Username for 'https://github.com': himanshu-jch
Password for 'https://himanshu-jch@github.com':
Enumerating objects: 33, done.
Counting objects: 100% (33/33), done.
Delta compression using up to 4 threads
Compressing objects: 100% (31/31), done.
Writing objects: 100% (33/33), 6.51 MiB | 1.79 MiB/s, done.
Total 33 (delta 4), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (4/4), done.
To https://github.com/himanshu-jch/assembly.git
 * [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
```

- And check your profile repositories .



himanshu-jch / **assembly**

Type / to search

Code | Issues | Pull requests | Actions | Projects | Wiki | Security | Insights | Settings

Commit

first commit

main

Browse files

himanshu-jch committed 2 hours ago

0 parents commit 628c1ae

Showing **20 changed files** with **554 additions** and **0 deletions**.

Split | Unified

Filter changed files

- Assembly.html
- Assembly.jpeg
- Assembly.md
- Assembly.pdf
- Assembly.png
- a.png
- autonomy.png
- car.png
- chain.png
- cost.png
- dependency.png
- divide.png
- efficiancy.png
- faster.png
- limited.png
- monotonous.png

416 ■■■■■ Assembly.html

Load diff

Large diffs are not rendered by default.

BIN +2.14 MB Assembly.jpeg