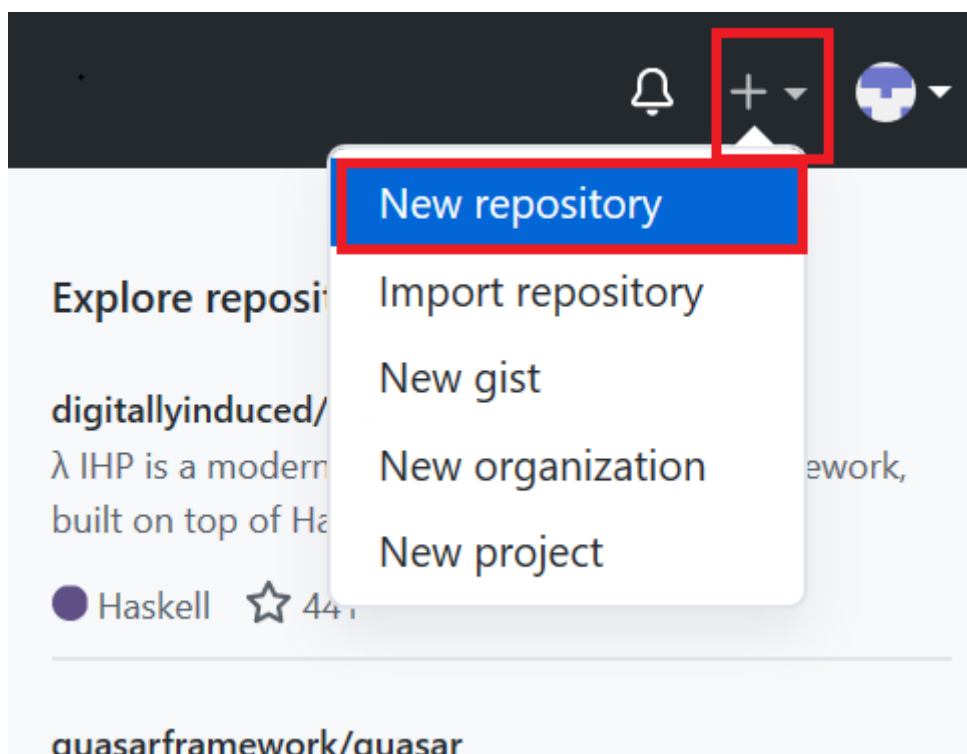# Creating Repository in GitHub

Objectives of this Exercise

- To create a repository in GitHub with README.md
- To create a repository in GitHub without README.md

Note: These instructions works on BASH terminal on Windows & Mac terminals.

Exercise

1. Create a new repository (it's a container where all stuff goes) using the + sign as shown below:
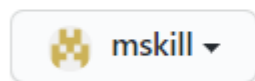

2. Provide the necessary details like repository name. Select repository as Public and initialize the READMD. Click 'Create'.

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?
Import a repository.

Owner *   **Repository name** *

🕹️ **mskill** ▾   /   demo_test   ✓

Great repository names are short and memorable. Need inspiration? How about **fictional-sniffle**?

Description (optional)

⦿ 📓 **Public**
    Anyone on the internet can see this repository. You choose who can commit.

○ 🔒 **Private**
    You choose who can see and commit to this repository.

Skip this step if you're importing an existing repository.

☑ **Initialize this repository with a README**
    This will let you immediately clone the repository to your computer.

Add .gitignore: **None** ▾   Add a license: **None** ▾   ⓘ

Create repository

Now, your repository is created, and it looks as:

⎇ Branch: **master** ▾   Go to file   Add file ▾   ⬇ Code ▾

🕹️ **mskill** committed 7522bfe now   ⏱ **1** commits   ⎇ **1** branch   🏷 **0** tags

📄 README.md   Initial commit   now
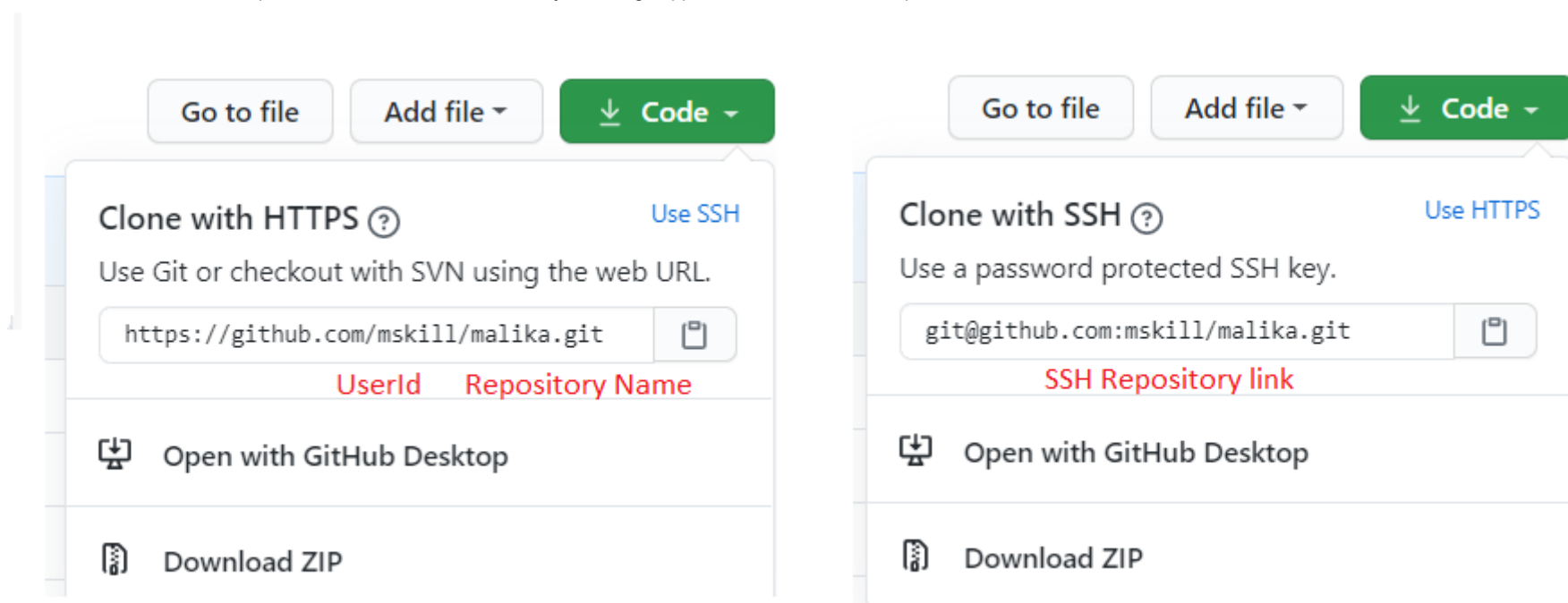
README.md   ✏️

demo_test

3. To download the repository, we have option'Download Zip' in 'Code'. Also, there are two options to copy repository locally using 'SSH'
   and 'HTTPS'

4. Copy the SSHRepositoryLink on to your clipboard.

5. Open the command prompt or terminal to use the GitHub commands:

   -To change the directory simply use:

   `cd <name of the directory you want to change to>`

   -To go to the folder "Downloads" use: `cd Downloads`

6. Use the SSH repository link from out GitHub Repository and clone it to your local system as follows:

`git clone pastesshrepositorylinkhere`

```
MINGW64:/c/Users/Skill07/Downloads

Skill07@DESKTOP-FR7C17B MINGW64 ~
$ cd

Skill07@DESKTOP-FR7C17B MINGW64 ~
$ cd Downloads

Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads
$ git clone git@github.com:mskill/demo_test.git
Cloning into 'demo_test'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.

Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads
$ |
```

7. Now, the folder is copied to my 'Downloads'. Just check the 'Downloads' have you got the folder demo.

   ○ To check my folder, enter the folder using cd command again as:
     `cd demo`

8. Get the list of the files in the folder demo, use: For Windows: `dir` For Mac: `ls`

```
Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads
$ cd demo_test

Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads/demo_test (master)
$ dir
README.md

Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads/demo_test (master)
$ |
```

9. To view the content of the file: For Windows: `type README.md` For Mac: `cat README.md`

10. To open a README.md file: For Windows: `notepad README.md` For Mac: `open README.md`

11. To create a new file: For Windows: `notepad test.txt` For Mac: `vi test.txt`

12. Add to the repository: For Windows/Mac: `git add test.txt`

   - Check the status of the file using:

   `git status`

```
Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads/demo_test (master)
$ notepad README.md

Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads/demo_test (master)
$ notepad test.txt

Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads/demo_test (master)
$ git add test.txt

Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads/demo_test (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.
```

13. Commit the changes in the repository using:

`git commit -m "write message here"`

```
Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads/demo_test (master)
$ git commit -m "Initial Commit"
[master 1c34e7c] Initial Commit
 1 file changed, 1 insertion(+)
 create mode 100644 test.txt
```

14. Push the file to remote repository using:

`git push`

```
Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads/demo_test (master)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 292 bytes | 292.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To github.com:mskill/demo_test.git
   b341fa4..1c34e7c  master -> master
```

Now, this make the changes in my GitHub repository

⑂ Branch: master ▾		Go to file	Add file ▾	⬇ Code ▾

🙂 **mskill** committed 1c34e7c 8 minutes ago		🕐 **2** commits	⑂ **1** branch	◌ **0** tags
🗋 README.md	Initial commit			15 minutes ago
🗋 test.txt	Initial Commit			8 minutes ago

README.md	✎

demo_test

Create a repository now without README.md file

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?
Import a repository.

Owner *   Repository name *

🐱 **mskill ▾** / | demo_test1 | ✓

Great repository name   demo_test1 is available. able. Need inspiration? How about **stunning-octo-succotash**?

Description (optional)

| |

⦿ 📖 **Public**
Anyone on the internet can see this repository. You choose who can commit.

◯ 🔒 **Private**
You choose who can see and commit to this repository.

Skip this step if you're importing an existing repository.

☐ **Initialize this repository with a README**
This will let you immediately clone the repository to your computer.

| Add .gitignore: None ▾ | | Add a license: None ▾ | ⓘ |

Create repository

15. Copy the SSHRepositoryLink on to your clipboard as did before

16. To come out from the demo folder first use

`cd ..`

17. To make a directory in download folder:

`mkdir demo1 cd demo1`

```
Skill07@DESKTOP-FR7C17B MINGW64 ~
$ cd Downloads

Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads
$ mkdir demo_test1

Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads
$ cd demo_test1
```

18. To create a readmd file use

`echo "# demo1" >> README.md`

19. Initialize the directory

`git init`

20. Create and add a README.md file. You can use a normal text editor depending on which OS you are using.

`git add README.md`

21. Check the status of the file

`git status`

22. Commit the changes

`git commit -m "first commit"`

23. Add the origin where we have to push the file. This is the SSHRepositoryLink you copied when you created the repository.

`git remote add origin git@github.com:mskill/demo1.git`

24. Push the file

`git push -u origin master`

```
Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads/demo_test1
$ echo "# demo_test1" >> README.md

Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads/demo_test1
$ git init
Initialized empty Git repository in C:/Users/Skill07/Downloads/demo_test1/.git/

Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads/demo_test1 (master)
$ git add README.md
warning: LF will be replaced by CRLF in README.md.
The file will have its original line endings in your working directory

Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads/demo_test1 (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   README.md


Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads/demo_test1 (master)
$ git commit -m "first commit"
[master (root-commit) 6726854] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 README.md

Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads/demo_test1 (master)
$ git remote add origin git@github.com:mskill/demo_test1.git

Skill07@DESKTOP-FR7C17B MINGW64 ~/Downloads/demo_test1 (master)
$ git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 220 bytes | 220.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To github.com:mskill/demo_test1.git
```

Now, the README.md file is created in our repository

⌥ Branch: master ▾		Go to file	Add file ▾	⬇ Code ▾

🐾 **mskill** committed 6726854 4 minutes ago		🕐 **1** commits	⌥ **1** branch	🏷 **0** tags
📄 README.md	first commit			4 minutes ago

README.md   ✏

demo_test1

Author(s)

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Other Contributor(s)

Lavanya

Changelog

Date	Version	Changed by	Change Description
2020-08-25	2.0	Lavanya	Migrated Lab to Markdown and added to course repo in GitLab