How to connect UiPath Studio to GitHub

What is GitHub?

Github is a **web-based platform used for version control**. Git simplifies the process of working with other people and makes it easy to collaborate on projects. Team members can work on files and easily merge their changes in with the master branch of the project.

GitHub is a third party online web service that allows you to back up the code you are saving with Git to the cloud.

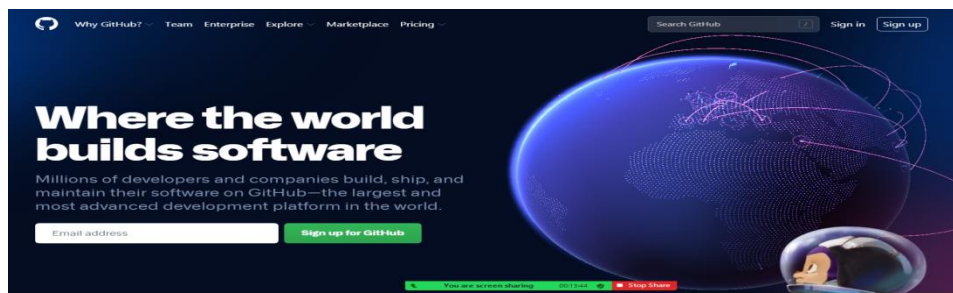- Git is local
- GitHub is a cloud-based application

Common actions are,

- Commit: Commits current changes to local git repository.
- Push: Pushes the current version to remote repository.
- Commit and push: committing to local and then pushing the current version to remote repository like GitHub Cloud.
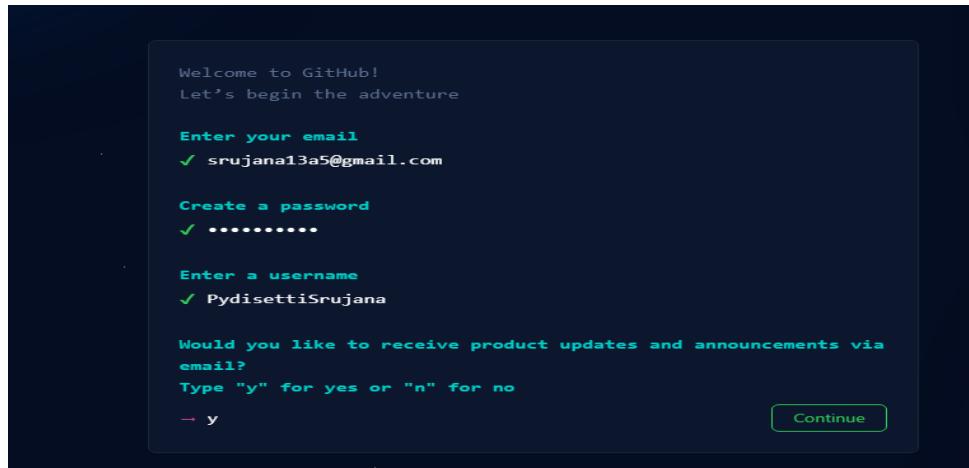
Step1:

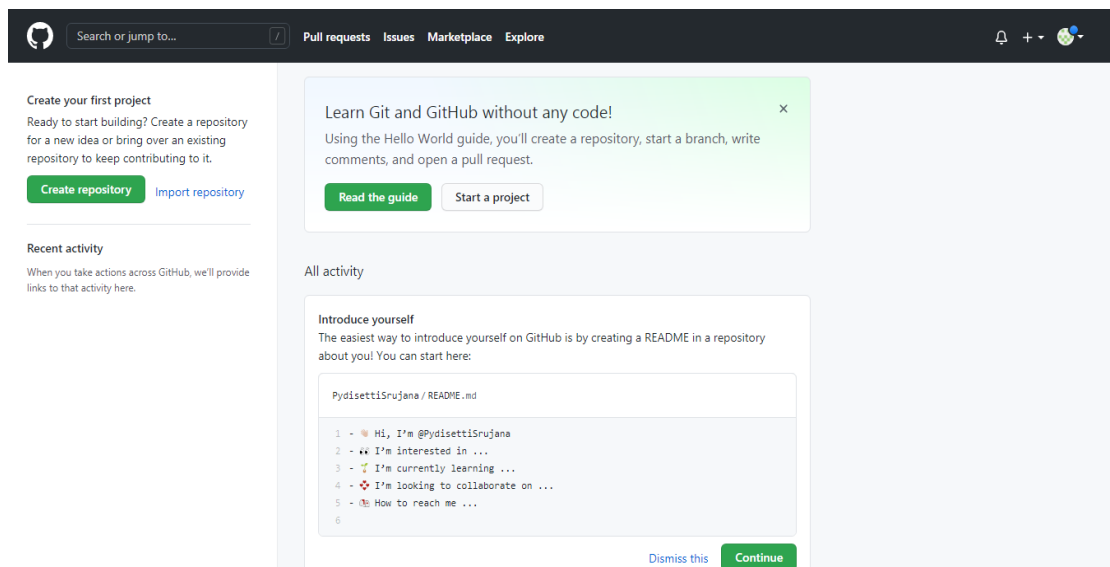Create a GitHub account at https://GitHub.com/

After Entering the URL the page open like this, Click on Sign up button which is on top of right side

After Clicking on Sign up button it ask for the following Details:

After entering the details click on continue it ask for puzzle game and create account the page apper like below
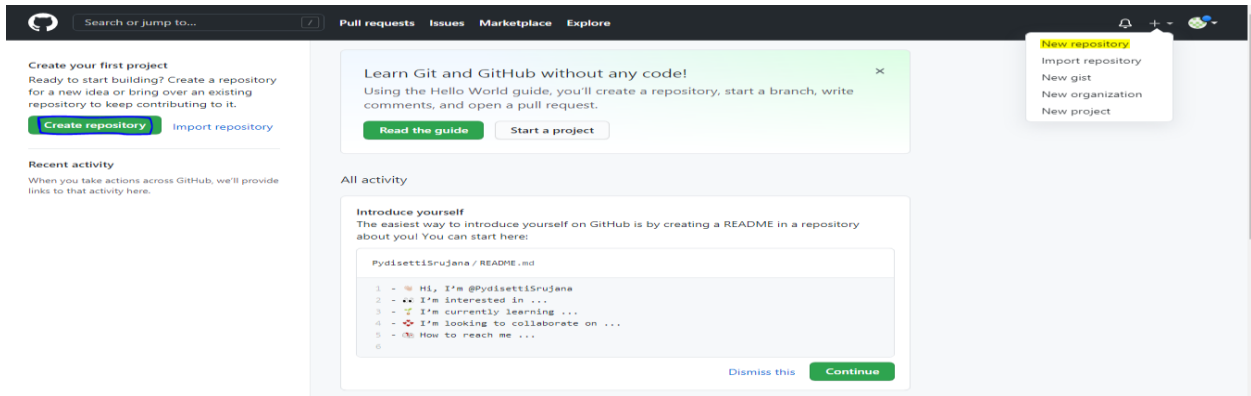

Step 2

Now try creating a new repository by clicking on the plus icon and by selecting "**New Repository**" option which is on right side
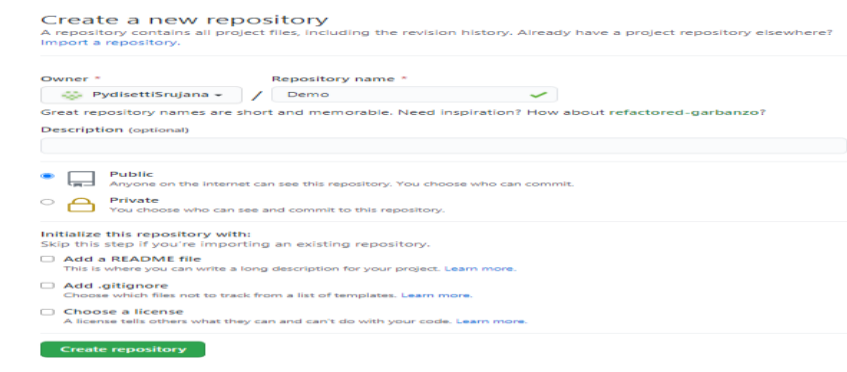
(Or)
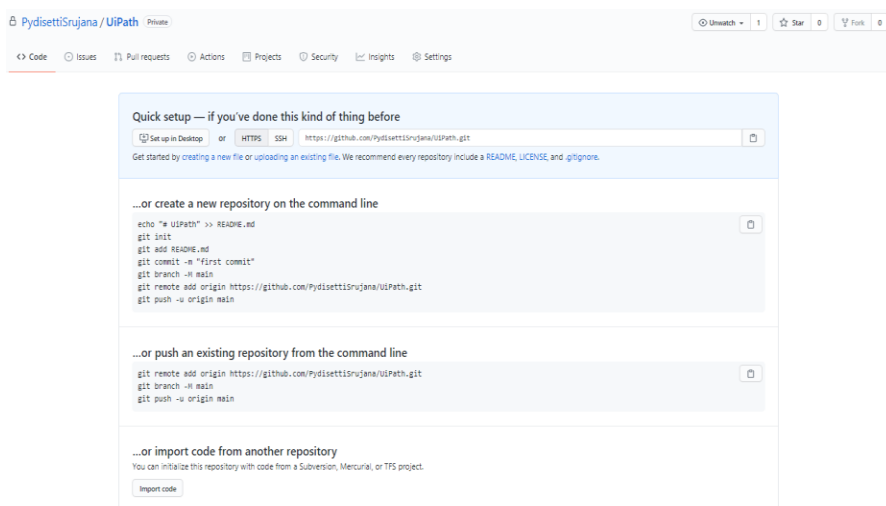
Click on Create repository which is on lift side

Step3:

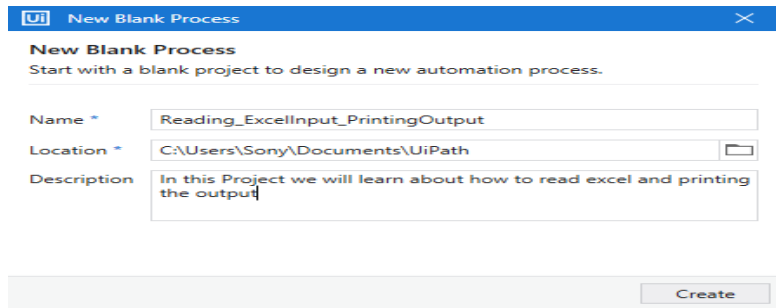Now enter the name of the repository that you want to create and then click on "**create repository**"

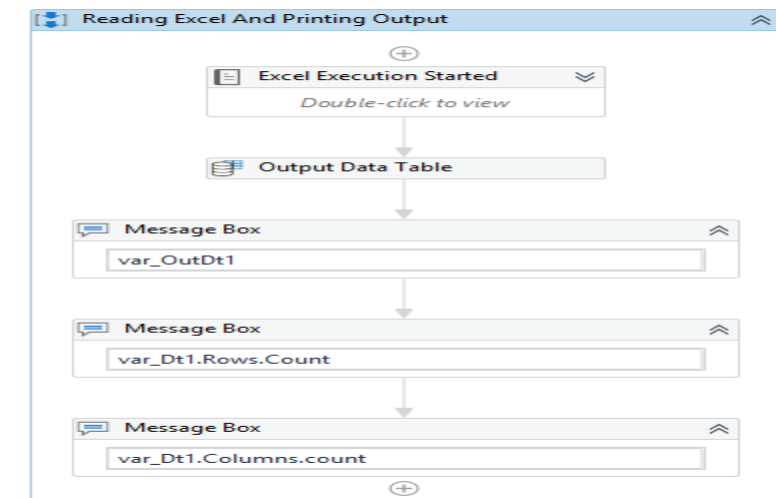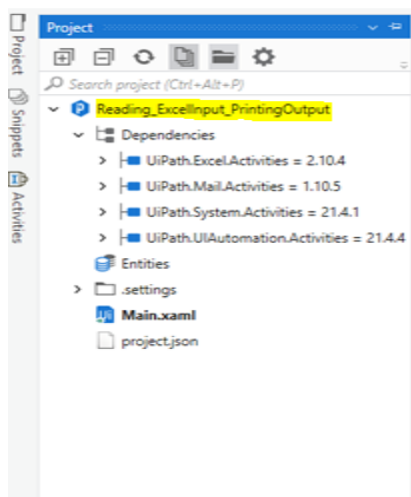After click on create repository the following page appear
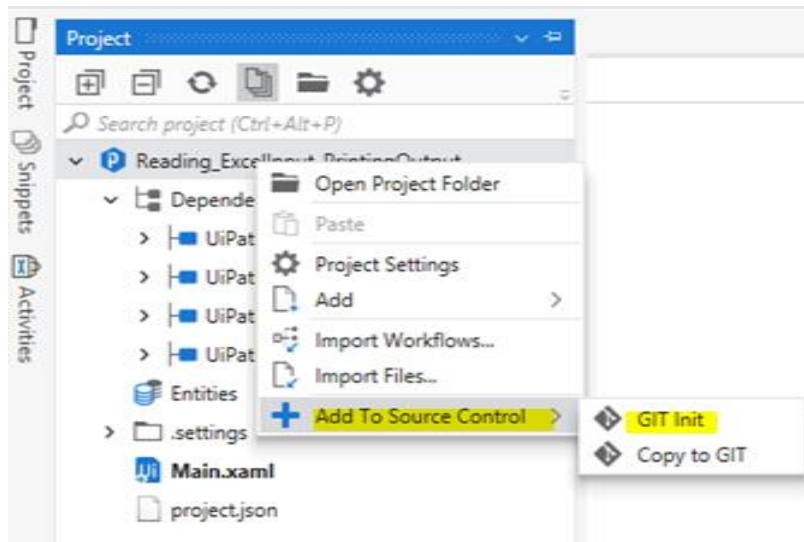
Step4:

Create project

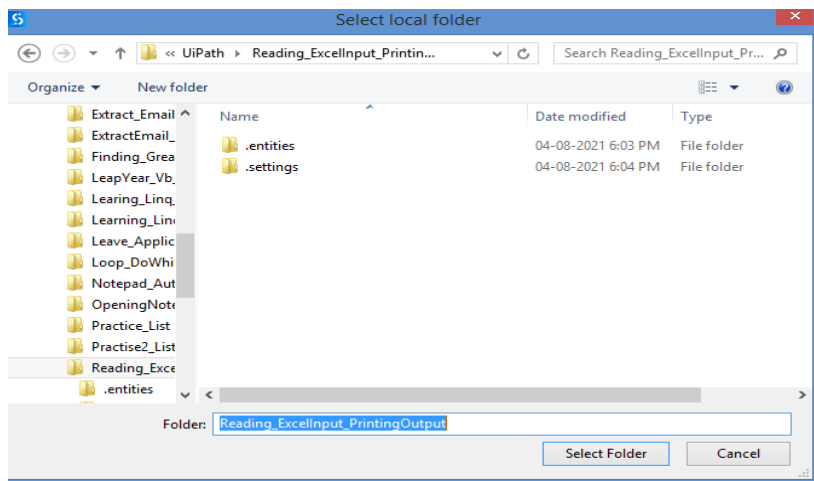Reading excel and printing the output

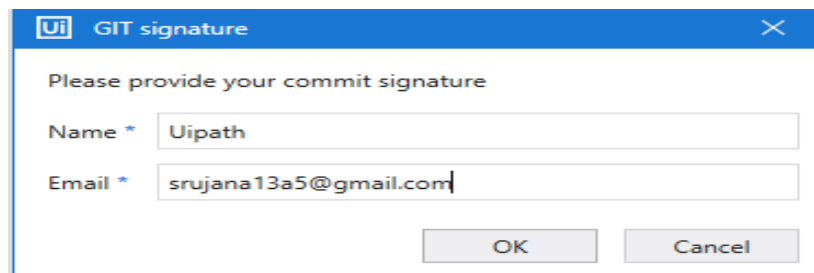Now select your Project which you have created in Project Explorer window

Right click and go to GIT Init

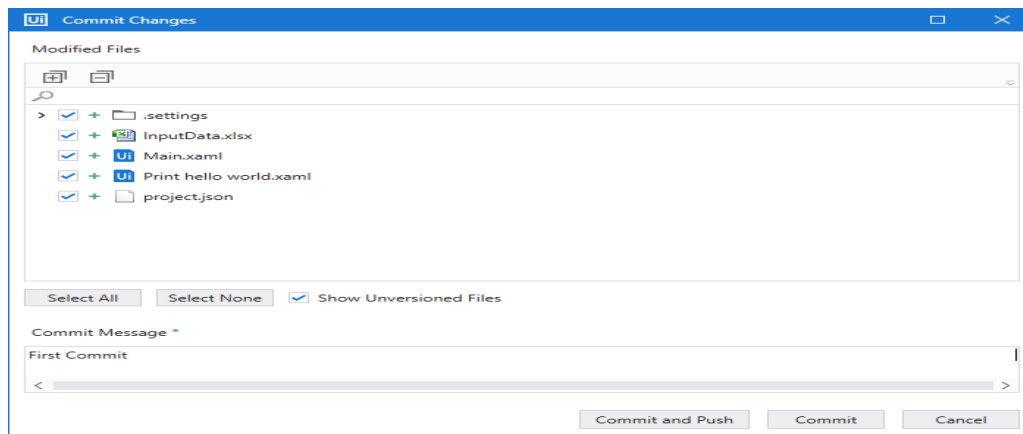Then select or browse to parent folder of your project.

Click on select Folder the page appear like below
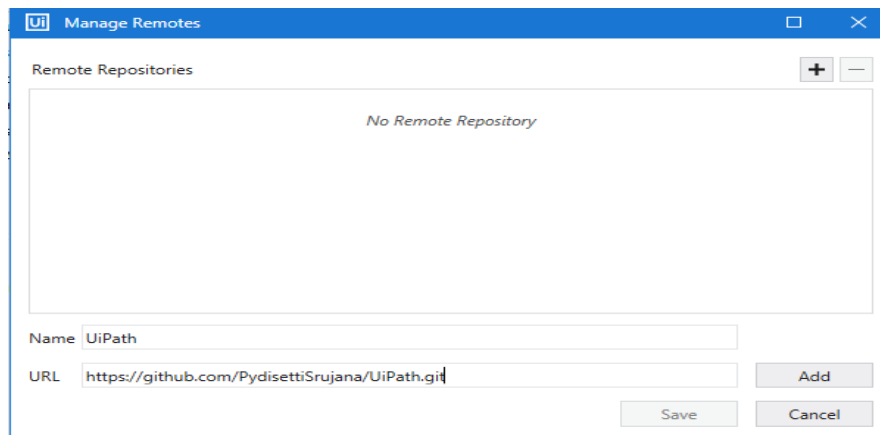
Click on ok the page appear like below

It will ask for Commit Comment -- write your own comment for current commit

Commit and push: committing to local and then pushing the current version to remote repository like GitHub Cloud.

Commit: Commits current changes to local git repository.

Click on comment and push the page appear like below

Here we have to give Name and URL of which you created from GitHub Repository

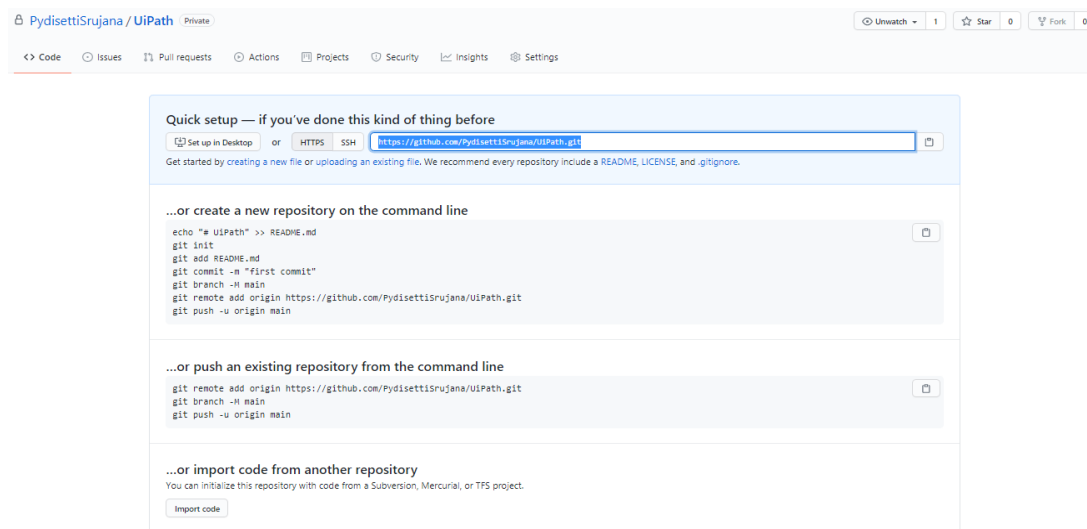If we use SSH URL it will ask for private key,the private key is generated

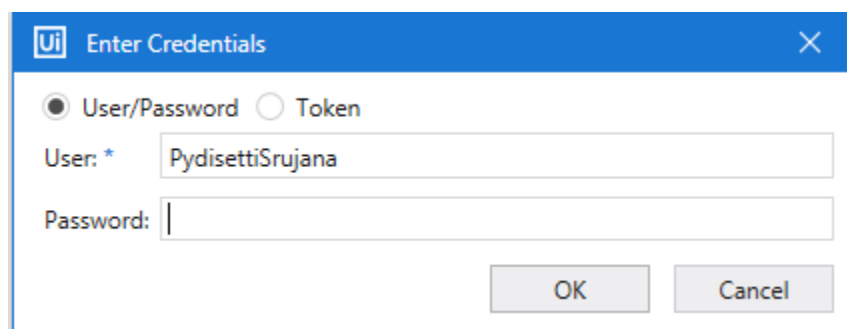We have to download Gitbash

What is Gitbash?

Git Bash is an application for Microsoft Windows environments which provides an emulation layer for a Git command line experience. Bash is an acronym for **Bourne Again Shell**. A shell is a terminal application used to interface with an operating system through written commands.

In order to generate private key we have write the below text in Gitbash and enter the key will generate

```
ssh-keygen -t ed25519 -C "your_email@example.com"
```
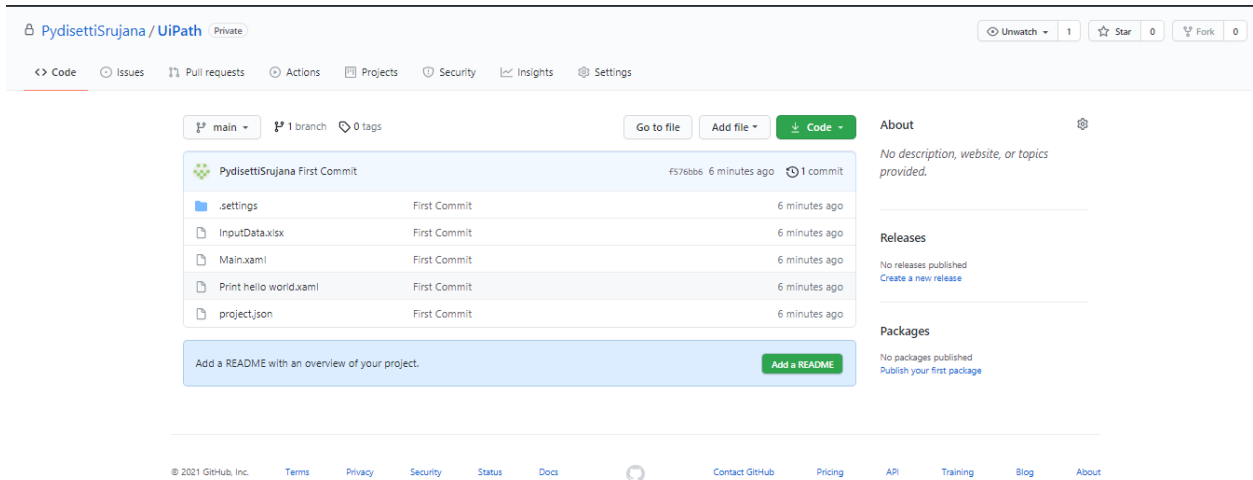

After giving Name and URL click on Add and save the page appear like below

It may ask for user credentials for your GitHub account.

After Entering the details click on ok

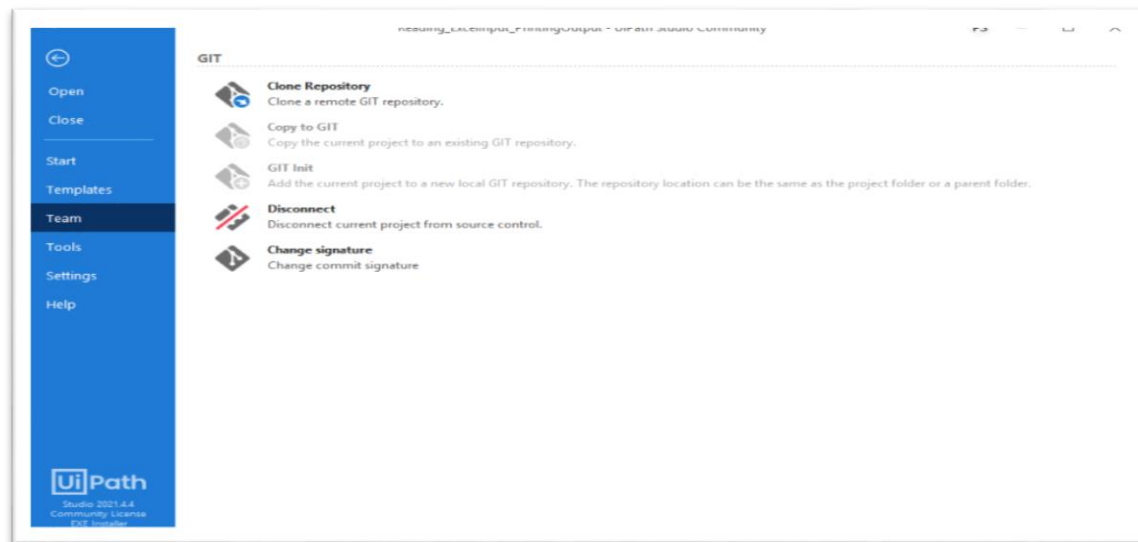Now go to your GitHub Account and you can find the commited project files there.

Now commiting a project to GitHub Cloud is done.
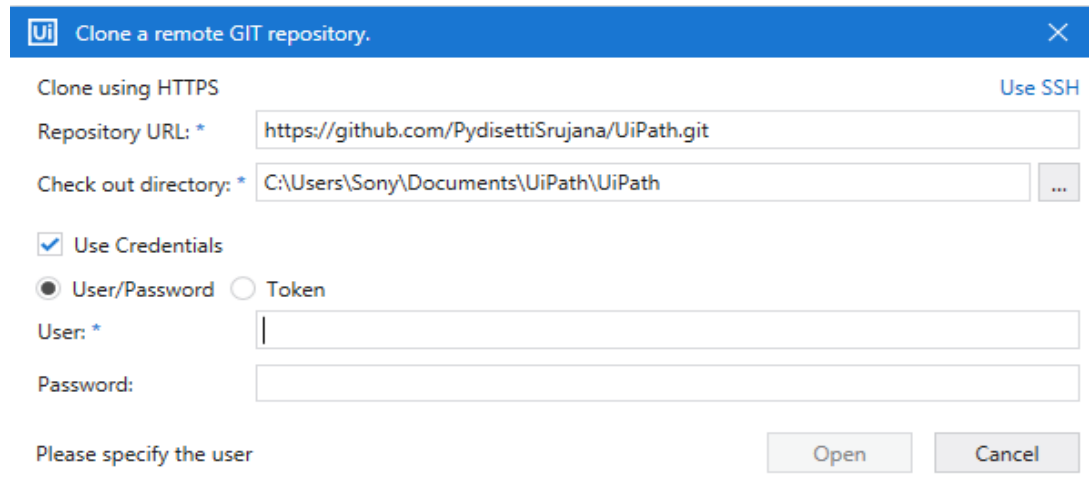
Second Scenario

Now suppose you have a repository by someone else or a remote repository of your own, and you want to clone the project from that repository to your local then follow the steps:

First Open UiPath

Go to Team and Click on Clone Repository.

After click on clone repository the following page will appear

Fill in the info.

Your Project GiT/GitHub URL

CheckOut Folder Path which you want to clone.

User Credentials.
And click open with Clone the Project from GitHub and open it in your studio.

Some commonly used actions are:

Commit: Commits current changes to the local GIT repository.

Push: Pushes the current version onto the remote repository.

Manage Branches: Helps us in managing the added branches.

Show Changes: Helps us in comparing the difference between local and remote versions.

Show History: Gives the version change information.

Conclusion

Here we have seen how to Integerate GitHub with RPA UiPath Studio, now you can easily version control your work in UiPath.

For any RPA Implementations/ resources in your organization please reach out to rpa@gxplabs.com