EXERCISE 01

M.KEERTHANA

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Definition of Git.

Git is a free open source distributed version control system designed to handle everything for small to very large projects with speed and efficiency.

Description of GitHub

GitHub is a web-based version control and collaboration platform for software developers. Microsoft, the biggest single contributor to GitHub, acquired the platform for $7.5 billion in 2018. GitHub, which is delivered through a software as a service (SaaS) business model, was started in 2008. It was founded on Git, an open source code management system created by Linus Torvalds to make software builds faster.

Git is used to store the source code for a project and track the complete history of all changes to that code. It lets developers collaborate on a project more effectively by providing tools for managing possibly conflicting changes from multiple developers.

GitHub allows developers to change, adapt and improve software from its public repositories for free, but it charges for private repositories, offering various paid plans. Each public and private repository contains all of a project's files, as well as each file's revision history. Repositories can have multiple collaborators and can be either public or private.

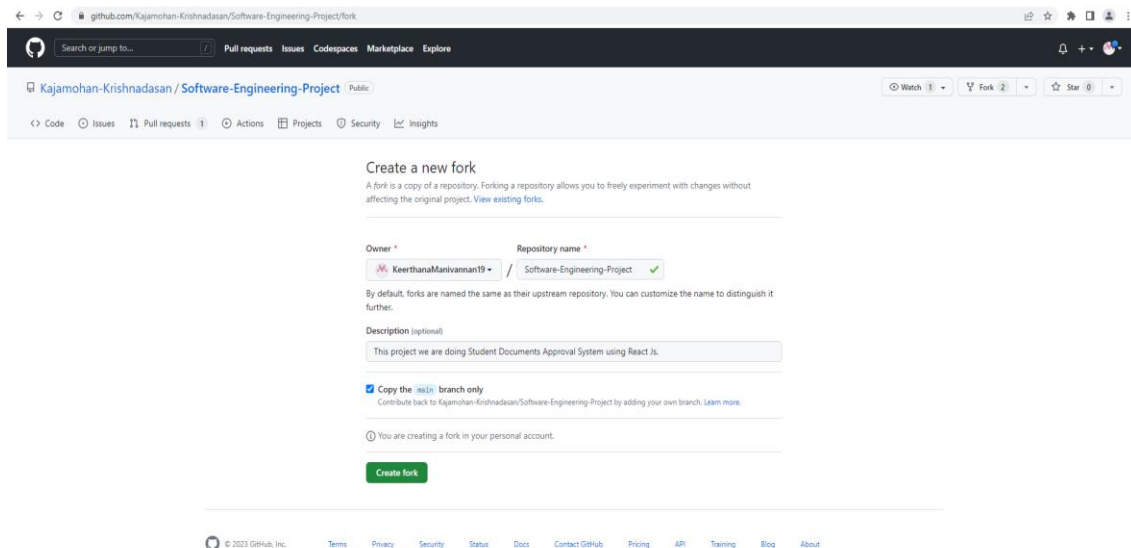## Difference between GitHub and Bitbucket

BitBucket	GitHub
Both Mercurial and Git VCS (Version Control System) are supported.	Only Git VCS (Version Control System) is supported.
You are allowed to have a free repository on Bitbucket, but it is restricted to five collaborators. Beyond that, you need to pay if you have more than 5 collaborators.	You are allowed to have a free repository on Github, but it is restricted to three collaborators. Beyond that, you need to pay if you have more than 3 collaborators.
Bitbucket does not have a code-navigation feature.	On GitHub, users are able to use the code-navigation feature.
Bitbucket has a very organized and clean interface.	GitHub has a simple interface. However, the UI is cluttered and confusing, unlike Bitbucket.
Bitbucket facilitates the visualization of analysis with charts.	As of now, GitHub does not offer this feature; however, users can view the commit history for a specific file (revision or individual change to file by contributors of projects).
Direct integration is available with Jira, Bamboo, Crucible, and JenkinsExternal.	Zendesk, Azure, Cloudbees, Google Cloud, Amazon, Code Climate, and Heroku have direct integrations available with GitHub.
Bitbucket offers more flexibility by default as Bitbucket can import repositories from Git, CodePlex, Google Code, SourceForge, and SVN.	Meanwhile, GitHub can import repositories from Git, SVN, HG, and TFS.

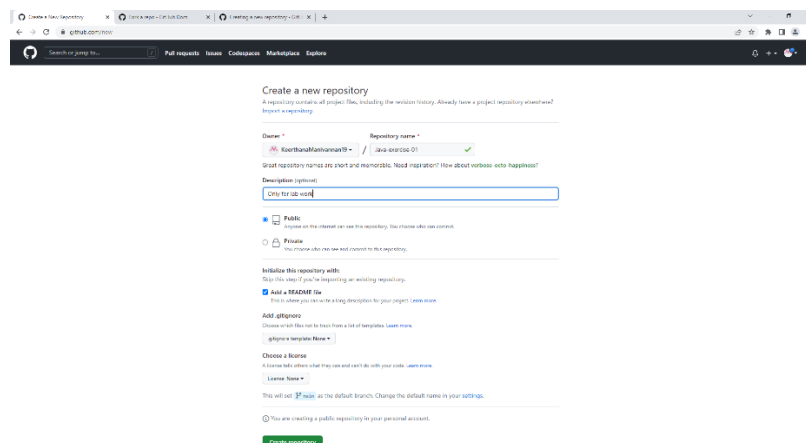We need to enter the required information while we creating the account

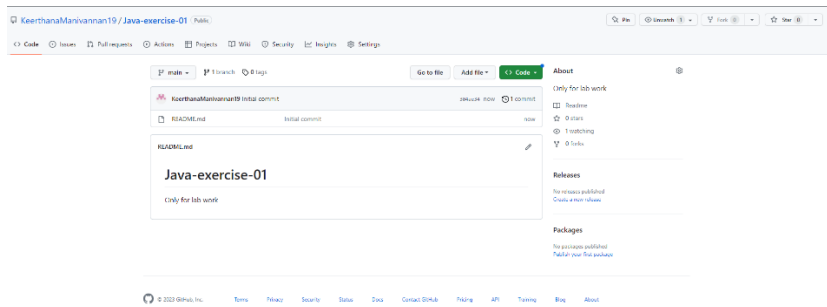Link for our personal GitHub Account

Fork

Create repository

Cloning the Repository from GitHub