**ASSIGNMENT-2**

**Steps Taken to Set Up GitHub Account**

1. Create a GitHub Account:

- Visit [GitHub](https://github.com/) and click on "Sign up" to create an account.

- Fill in the required details (username, email, password) and complete the registration process.

2. Verify Email:

- Verify your email address to activate your GitHub account.

3. Personalize Your Profile:

- Optionally, add a profile picture and customize your profile settings.

**Repository Creation**

**Create a New Public GitHub Repository**

- Repository Name: [my-first-repo](https://github.com/exampleuser/my-first-repo)

To create a new public repository named "my-first-repo" on GitHub:

1. Log in to your GitHub account.

2. Click on the "+" sign in the top right corner of the page and select "New repository".

3. Enter "my-first-repo" as the repository name, choose "Public" as the repository visibility, and optionally add a description.

4. Click on "Create repository" to create your new repository.

**Repository Cloning**

Clone the "my-first-repo" Repository to Your Local Machine

To clone the "my-first-repo" repository to your local machine, use the following command in your terminal or command prompt:

```bash

git clone https://github.com/exampleuser/my-first-repo.git

```

Here's a screenshot showing the clone command in the terminal:

![Clone Command](https://i.imgur.com/xyz1234.png)

Collaborative Workflow

**Invite a Classmate or Friend to Collaborate**

1. Invite a Collaborator:

- Go to your GitHub repository page (`https://github.com/exampleuser/my-first-repo`).

- Click on "Settings" > "Manage access".

- Click on "Invite a collaborator" and enter the GitHub username or email of your classmate or friend.

- Select their permission level (e.g., "Write" access).

- Click on "Add [username]" to send the invitation.

2. Collaborator Forks the Repository:

- Your classmate or friend should navigate to the repository (`https://github.com/exampleuser/my-first-repo`) and click on "Fork" in the top right corner.

- This creates a copy of your repository under their GitHub account.

3. Make Changes and Create a Pull Request:

- In their forked repository, they can make changes to files (e.g., edit README.md).

- After making changes, they navigate to their forked repository on GitHub and click on "New pull request".

- They select the base repository (`exampleuser/my-first-repo`) and the branch containing their changes.

- They create the pull request, adding a description of the changes made.

4. Accept the Pull Request:

- You, as the repository owner, receive a notification of the pull request.

- Review the changes made in the pull request and ensure they align with your project's goals.

- If satisfied, click on "Merge pull request" to accept their changes into your main repository.

**Collaborative Process Explanation**

GitHub facilitates collaborative software development by providing tools such as pull requests, issues, and project boards. Collaborators can work independently on their copies (forks) of a repository, make changes, and propose these changes back to the original repository owner via pull requests. This process allows for peer review, discussion, and seamless integration of contributions into the main project, fostering teamwork and ensuring code quality and continuity.