

Lab Report

Experiment Name: Creating and Uploading a Repository in GitHub

Objective:

To learn how to create a new repository in GitHub and upload files/projects into it.

Required Tools:

- A GitHub Account (<https://github.com>)
- Git Software (installed in PC)
- Internet Connection

Theory:

GitHub is a cloud-based platform that uses Git for version control and collaboration. A repository in GitHub stores project files, codes, and documentation. By creating a repository, developers can manage project versions, collaborate, and track changes efficiently.

Procedure:

Step 1: Create a GitHub Account

- Go to GitHub (<https://github.com>) and create an account using email.

Step 2: Create a New Repository

1. Log in to GitHub.
2. Click the '+' icon in the top-right corner → Select 'New repository'.
3. Enter Repository Name (e.g., MyFirstRepo).
4. Add a description (optional).
5. Select Public/Private.
6. Add README file (optional).
7. Click 'Create Repository'.

Step 3: Install Git on PC (if not already installed)

- Download Git from <https://git-scm.com>.
- Install with default settings.

Step 4: Setup Git (First time only)

```
git config --global user.name 'Your Name'
```

```
git config --global user.email 'your_email@example.com'
```

Step 5: Clone the Repository

```
git clone https://github.com/username/MyFirstRepo.git
```

Step 6: Add Files to Repository

- Copy your project files into the cloned folder.
- Open Git Bash in that folder.

```
git add .
```

```
git commit -m 'First commit'
```

```
git push origin main
```

Step 7: Verify Upload

- Go to your GitHub repository link.
- Refresh → Uploaded files will appear.

Result:

Successfully created a GitHub repository and uploaded files into it.

Conclusion:

By following these steps, we have learned how to create, configure, and upload a project into GitHub. This process helps in version control and collaborative development.