GIT HUB DOCUMENTATION

What is Git hub?

**GitHub** is a code hosting platform for version control and collaboration. It lets you and others **work** together on projects from anywhere.

How to work on it:

* Go to browser, open git hub and create repository
* Install **git client** in your local system
* Create a folder in desktop
* Open command prompt and change the working directory in to folder that is created.
* Copy the link of the repository , go to command prompt and enter a command ***git clone* paste your link here.**
* Now the repository, which is created in the browser appears in your local system in the folder that you have created on desktop.
* Create a text file and save it in the same folder on desktop
* Now in order to add the created text file in github repository go to command prompt and enter the command *git add**created text file.txt***.**
* Then enter a command ***git commit –m “your message”*** to say that you have completed all changes and ready to add.
* After this command execution if you are using for the first time you will get a message to enter your user email and user name. the commands for entering these details are:

***git config –global user.email “your email”***

***git config –global user.name “your user name”***

* Now, again add the text files and commit.
* After that enter command ***git push*** to add your text file to github repository.

Pull commands:

Pull requests are made to contribute their work towards a project. It can be done in two ways:

1.Through fork

2.By creating a sub branch

**Through fork:**

In this method we should go to main repository and there will be an option called as **fork** should click on that, then we will get the url so that we can copy it and clone it into our local system.

Now, we can add our work. To add our work we need to **add, commit, push** our files and then should create a pull request to the main repository such that the person who created the project(i.e; main repository) will review your files and then merges into main repository.

For reviewing and merging the files:

* Go to main repository click on pull requests.
* Click on file changes
* Click on review or add changes
* Review the files if you are not satisfied with their work you can ask them to make necessary changes in it.
* If you are satisfied with their work you can approve it and merge the files into the main repository.

**By creating a sub-branch:**

In order to create a branch we have to be a collaborator first.

How to make a person as a collaborator:

* In the main repository go to settings click on manage access.
* If you scroll down you will see an option called **invite a collaborator** if you click on that, it will ask the user name of the person whom you want to make as collaborator.
* If you enter his/her user name, they will get a mail containing this invitation they should accept it.
* Now they can copy the url and clone it to their local system.

Whatever the files you are adding in the command line will be added to master. In order to add the files for branch you need to type the command

***Git checkout –b yourbranchname***

Now the path was changed to your branch i.e; whatever the files you will be added it goes to your branch. In order to add your files to the master you should create a pull request.

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