Assignment No: I

Subject: Systems Design Lab

Topic: Introduction to Git and GitHub

Submitted By: Submitted To:

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SYSTEM DESIGN LAB

ASSIGNMENT-1

8:1: Gut as Version Conterol System

- A version conterol system is a softmane that teraches changes to a file on set of files over time so that you can secall specific versions later.
 - It is a collection of S/W tools that help a team to manage changes in a source code.
 - to keep teach of knery modification to code.
 - It allows you to monk together uith other perogrammers.
 - Developers can use the peremions received of the code with an older version to fin the mistakes

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benefits ance. (a) complete change hillory of (b) limiltaneously enderhing merging (C) Buanching on (d) Tuaceability Grit Hub ? -> Grit Hub is a code hosting platform for collaboration and version control. I hets you and others moerh together on perojects. It concicts of the following: (i) Repositoeries (IV) Pull Reguests

(ii) Beanches

(iii) Commits

(V) Grit (the nucion

control softmare

GritHub is built

- (i) KEPOSITORY: → Used to store a developm.
 - -ent puoject.
- of files.
- -> Should include a licence and a README file about the perget.
- nesources that you mant to
- (i) BRANCH: -> Und to mork mith diff. neurious of a repositoryat the same time.
 - By default, lach repository has a master beranch.
 - -> When changes are heady, they can te merged in to the master beranch. If you changes make to the master mhile burnch moerhing on a nem beranch be pulled in. these updates

called commits. Each commit
has a description only a change

(iv) PULL REQUESTS: > It is the heart of the Grittlub.

be merged (pulled in) with the

<u>B:3:</u> What is morning dierectory and staging one?

that are not handled by git.

Also called as "unterached files".

Jet know what changes in

file acre going to occurre for the next commit.