## INTRODUCTION TO GIT AND GITHUB

By

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CSE306: Software Engineering and Information System Design Lab



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13 November,2023



Abstract : This report Summanize a Software Engineening and Information System Design Lab focused on Git and Github. Git, a distributed version contral Bystom, enables collaborative code development, While Github Serves as a web-based platform for hosting Git repositories. Lab activities covened Git installation, nepo Setup, practical exencises. Advance topies includes oftheb account eneation, linking local and remote prepositories and purhing into grahub. The report concludes that Git is essential for Bystematic code management, team collaboration and project Stability.

(PTO)

Introduction: Git is a distributed version controls Bystem that enables collaborations among developers by tracking changes is Source code during Software development. Github, on the otherhand, is a web-based platform that provides hosting for Git repositories, facilating collbonative work, code review, and protect managew Method and Materials: In this Lab, the primary tools used were Git and Github.

Activity:

1. Git installation and Configuration:

(1) Installation: Git was installed from

https://gid-scm.com/downloads. Git bash, a tenminal, was automatically installed with git.

initialited using git init! Default brance name main!, usen into configured.

Quick Her: 'git command -h'and git help command, were introduced for assistance.

(2) Creating and Running Senipts:

1) Creating a Repository: A new directors were eneated and initialized as nepo.

(i) Cheating a Senipt file: A text file was created where it'll print hello would in the tenminal.

3 Adding, committing, and Treading Changes.

(i) Adding and committing files: 'gittard' used to Staging and git commit for committing.

@ Viewing Changes: The differences between committed and Staged fuer were viewed using git diff!

1 Pushing to Github:

De Creating account: Create a account

Configure github remote: git remote

and origin uni, this general ammand

und to configure nemote.

Det tanget bramen main to lab ]:

1 git branch - b Jab I' to enente

branch and git checkout Jab I' to

Switch to 'Jab I' branch.

Push local Changes to Github:

1 git push origin lab 1' to push.

Discussion. When I was doing commands
mistakes I just Beek concrect Solution
in dissent Bites of the internet and
also discussed with expenienced one.
S've used git help' command as well.

Conclusion: Git is a important lool in software Development, presviding version controls and facilating collaboration. Its usage ensures a systematic approach to monaging code changes, enhanches team collaboration. The future benefits streamlin development workflows, improved code quality, and efficient collaboration in distributed teams, making Git essential skill for software engineers.

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