Git & GitHub Essentials Workshop

Hosted by:

TECHNOLOGY AMBASSADORS PROGRAM SHARP

Georgia Gwinnett College

Speakers:

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Intended Audience

- Consists of individuals who are completely new to both Git and GitHub.

- Won't download or require any prior knowledge of IDEs.

- Will need to download Git and create a GitHub account.

- A distributed version control system used for:
  - Tracking changes in source code during software development.
  - Enabling Collaboration.
  - Managing codebase versions locally.

Git Bash

- A command-line interface program for Windows, providing a Unix-like shell environment.

- Allows Windows users to interact with Git and run Unix commands for managing repositories and executing Git Commands efficiently.

- A web-based platform used for:
    - Hosting Git repositories.
    - Facilitating Collaboration.
    - Code Reviews.
    - Issue Tracking.
    - Project management for software development projects.

Step One:

Create a GitHub account.
https://github.com

Step Two:

Go to workshop repository.
https://github.com/rhollins8199/
TAPS_GitHub_Workshop

Knowledge Gained

1. Understand version control basics and its importance in collaborative coding projects.

2. Learn how to install Git and set up a GitHub account.

3. Grasp essential Git concepts (e.g., repositories, commits).

4. Learn key Git commands (e.g., add, commit, push).

5. Practice collaborative workflows (e.g., cloning, pushing changes).

6. Explore GitHub features (e.g., pull requests, repo settings).

7. Gain confidence in Git and GitHub usage.

Free Resources

Git & GitHub Tutorial for Beginners: Here

Total of 1 hour 3 minutes

1. Introduction (5 min)
   a. Give brief summary about Git, Git Bash, and GitHub
2. Installing Git and Creating GitHub Account (10 min)
   a. Provide step-by-step instructions for downloading and installing Git.
   b. Guide participants through the process of creating a GitHub account.
3. Basic Git Concepts and Commands (15 min)
   a. Explain fundamental Git commands such as repos, commits, branches, and merges.
   b. Introduce key Git commands (git init, add, commit, push).
   c. Demo.
4. Collaborative Workflows (15 min)
   a. Demo how to clone a repo from GitHub.
   b. Demo how to make changes, stage, commit, and push them to GitHub.
   c. Emphasize the importance of communication and collaboration when working with Git and GitHub.
5. Exploring GitHub Features (10 min)
   a. Briefly discuss GitHub features like pull requests, issues, and project boards.
   b. Show how these features enhance collaboration and project management.
6. Knowledge Gained (3 min)
7. Q&A and Closing (5 min)