



**DEMO** 



**Project URL** 

https://github.com/SETeam59/proj3

SIMPLIFY YOUR GIT WORKFLOW "FOCUS MORE ON CODING, LESS ON **COMMANDS."** "COMMIT CONFIDENTLY, ANALYZE **EFFORTLESSLY.**"

Have difficulty continually looking up abstract git commands? Welcome to GITS! This project aims to reduce the overhead that is encountered when using git by simplifying certain actions and combining others into a single step.

## **FEATURES**



- · One-Click Commands: Combines commonly used git commands into a single-click action (e.g., "Stage, Commit, Push" in one step)
- . Commit with Confidence: The gits commit\_with\_test feature checks the success of unit test cases before committing, reducing the risk of broken code.
- . Command Customization: Introduce a customization option for users to create and save their own "one-click command" sequences to suit their specific workflows.
- GITS Stats: Provides user statistics—commit count, insertions, and deletions—in a clear, tabular format for easy contribution analysis.
- Simplified Branching: Allows easy branch creation and merging with minimal interaction.
- . User-Friendly Data Analysis: Offers an intuitive way to see developer contributions, making team and individual performance evaluation easier.





Python, Shell, Flake8











20 + Testcases covering project functionalities

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## **FUTURE SCOPE** \*\*



- · Advanced Metrics Reporting: Expand gits stats to include additional metrics like code churn, filespecific changes, and activity trends for more in-depth insights.
- · Error Prevention: Features confirmation steps for high-risk actions, reducing errors during complex Git operations.
- Merge Assistant: Create a guided merge feature that simplifies merging branches by suggesting the least conflicting approach and highlighting areas of concern beforehand.
- · Context-Based Suggestions: Provides suggestions based on user actions (e.g., suggests a pull after failed push).
- Custom Workflow Templates: Implement customizable workflows that allow users to set up specific command sequences based on their project type.



**Running System Snaps** 

