

Case Studies on Git Bash & GitHub in Education

Case Study 1: Collaborative Assignment Submission

A group of students in a computer science class used GitHub Classroom to submit assignments. Each student cloned the repository using Git Bash, worked locally, and pushed updates to the central repo. The instructor provided inline feedback via pull requests, improving productivity and transparency.

Case Study 2: Version Control in Capstone Projects

A college implemented GitHub to manage final year capstone projects. Students used Git Bash to commit changes regularly, enabling tracking of progress and avoiding data loss. Faculty monitored repository commit logs to measure contribution levels.

Case Study 3: Open Source Learning Repository

A university created an open-source repository on GitHub containing programming exercises. Students cloned the repository with Git Bash and developed improved versions. The collaborative workflow encouraged peer-to-peer learning and community building.

Case Study 4: Improving Coding Skills through GitHub Issues

Students in a software engineering course used GitHub Issues to report and resolve bugs found in lab assignments. They learned real-world collaboration techniques using Git Bash to create branches and push fixes, enhancing debugging and communication skills.

Case Study 5: Digital Portfolio Creation

Students used GitHub as a personal digital portfolio, storing their course projects. Using Git Bash, they learned how to manage repository versions and document history. Employers reviewed repositories, improving placement opportunities.