

GitHub Student Handbook

A complete practical guide for beginners and future developers

Module 1 — Foundations of Version Control

1. What is Version Control?
2. What is Git?
3. What is GitHub?
4. Git vs GitHub
5. Why Companies Use Git and GitHub
6. How Teams Collaborate Using GitHub

Module 2 — Setup and First Contact

7. Creating a GitHub Account
8. Installing Git on Your Computer
9. Configuring Git (Name and Email)
10. Creating Your First Repository
11. Cloning a Repository
12. Connecting VS Code with GitHub

Module 3 — Daily Git Workflow

13. Understanding Project Folder Structure
14. Checking File Status
15. Staging Files
16. Making Commits
17. Writing Professional Commit Messages
18. Pushing Changes to GitHub

19. Pulling Updates from GitHub

Module 4 — Branching and Merging

20. Understanding Branches

21. Creating and Switching Branches

22. Working on Feature Branches

23. Merging Branches

24. Resolving Merge Conflicts

Module 5 — Team Collaboration

25. Forking Repositories

26. Creating Pull Requests

27. Code Review Basics

28. Handling Review Feedback

29. Using Issues for Bug Tracking

30. Introduction to Project Boards

Module 6 — Professional GitHub Usage

31. Writing a Strong README File

32. Documenting Your Projects

33. Maintaining Clean Commit History

34. Optimizing Your GitHub Profile

35. Using GitHub as Your Developer Portfolio

Module 7 — Advanced but Practical

Stuff companies love but beginners rarely learn properly

- 36. .gitignore
- 37. Reverting commits
- 38. Stashing work
- 39. Tagging versions
- 40. Release management basics