### # Git Pull Request Workflow Guide

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## Objective
Learn how to properly create and merge pull requests (PRs) using Git and GitHub.
## 1. Branching Structure
Use a clear branching model:
- main → stable production branch
- dev → integration branch
- feature/* → for new work or updates
Example:
git checkout -b dev
git push -u origin dev
git checkout -b feature/readme-update
git push -u origin feature/readme-update
## 2. Making Changes in Feature Branch
Edit files while on the feature branch:
notepad README.md
or (if using VS Code):
code README.md
Make real edits (e.g., add author info):
## Author
K. Manikanta - Practicing Git branching and PR workflow
Stage and commit:
git add README.md
git commit -m "Added author section to README"
git push origin feature/readme-update
## 3. Creating the Pull Request
Go to GitHub → your repository → Pull Requests tab → **New Pull Request**
Select:
- Base: main (or dev)
- Compare: feature/readme-update
If you see "This branch is 1 commit ahead," that means changes are detected.
Click **Create Pull Request**, add a title/description, and **Merge Pull Request**.
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## 4. Post-Merge Cleanup After merge: git checkout dev git pull origin dev git checkout main

# git pull origin main

Optional (delete merged feature branch): git branch -d feature/readme-update git push origin --delete feature/readme-update

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### ## 5. Common Problems

- "There isn't anything to compare" → Branches are identical (no new commits)
- "Everything up-to-date" after commit  $\rightarrow$  You didn't actually change file content

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# ## 6. Best Practices

- Always branch from dev, not main.
- Commit often with meaningful messages.
- Use PRs even in solo projects to practice collaboration workflow.
- Delete merged branches to keep repo clean.

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# ## Summary

A pull request is a formal request to merge changes between branches. It's essential for code reviews, version control discipline, and clean integration workflows in DevOps environments.