**✅ 1. INITIAL SETUP – NEW REPOSITORY**

**✅ Step 1: Initialize Git in Your Project**

bash

cd autozone-dashboard

git init

**✅ Step 2: Create .gitignore File**

txt

node\_modules

dist

.env

You can also generate using:

bash

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npx gitignore node

**✅ Step 3: Stage and Commit Your Code**

git add .

git commit -m "Initial project setup with Vite + Tailwind"

**🚀 2. PUSH TO A NEW GITHUB REPO**

**✅ Step 4: Create a New Repository on GitHub**

1. Go to <https://github.com/>
2. Click **New Repository**
3. Name: autozone-dashboard
4. Choose **Private** or **Public**
5. **Do not initialize with README**

**✅ Step 5: Add GitHub Remote & Push**

git remote add origin https://github.com/your-username/autozone-dashboard.git

git branch -M main

git push -u origin main

**🌿 3. BRANCHING WORKFLOW**

**✅ Step 6: Create Feature Branches**

To work on new pages/features safely:

git checkout -b feature/user-dashboard

After work is done:

bash

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git add .

git commit -m "Add user dashboard UI"

git push origin feature/user-dashboard

**✅ Step 7: Create Pull Request on GitHub**

* Go to the repo → **Pull Requests** → **New PR**
* Compare feature/user-dashboard → main
* Add description → Submit

**🔄 4. MERGE WORKFLOW (AVOIDING CONFLICTS)**

**🧠 Golden Rules**

* Always **pull latest main** before starting
* Use **feature branches** for each task
* Resolve conflicts locally before merging

**✅ Step 8: Update Feature Branch with Main Changes**

bash

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git checkout feature/user-dashboard

git pull origin main

If you get conflicts:

* Open the files
* You’ll see conflict markers:

bash

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<<<<<<< HEAD

your changes

=======

main branch changes

>>>>>>> main

Choose what to keep, then:

bash

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git add .

git commit -m "Resolve merge conflict"

**🔄 5. MERGE FEATURE BRANCH INTO MAIN**

After resolving and reviewing:

bash

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git checkout main

git pull origin main

git merge feature/user-dashboard

git push origin main

**🌟 6. WORKING WITH EXISTING PROJECT & NEW CLONE**

**✅ To Clone and Start Fresh (New Machine/Team Member)**

bash

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git clone https://github.com/your-username/autozone-dashboard.git

cd autozone-dashboard

npm install

**📌 Extra Git Commands You’ll Use Often**

| **Task** | **Command** |
| --- | --- |
| See current branch | git branch |
| Create branch | git checkout -b feature-name |
| Switch branch | git checkout branch-name |
| See status | git status |
| See logs | git log --oneline |
| Pull latest | git pull origin branch-name |
| Push changes | git push origin branch-name |
| Set upstream | git push -u origin branch-name |

**🛡️ Tips to Avoid Merge Conflicts**

* Always pull main before starting new work
* Work in small commits
* Keep one branch = one task
* Use .gitignore to skip unnecessary files
* Avoid editing same file/line across branches

Would you like me to: