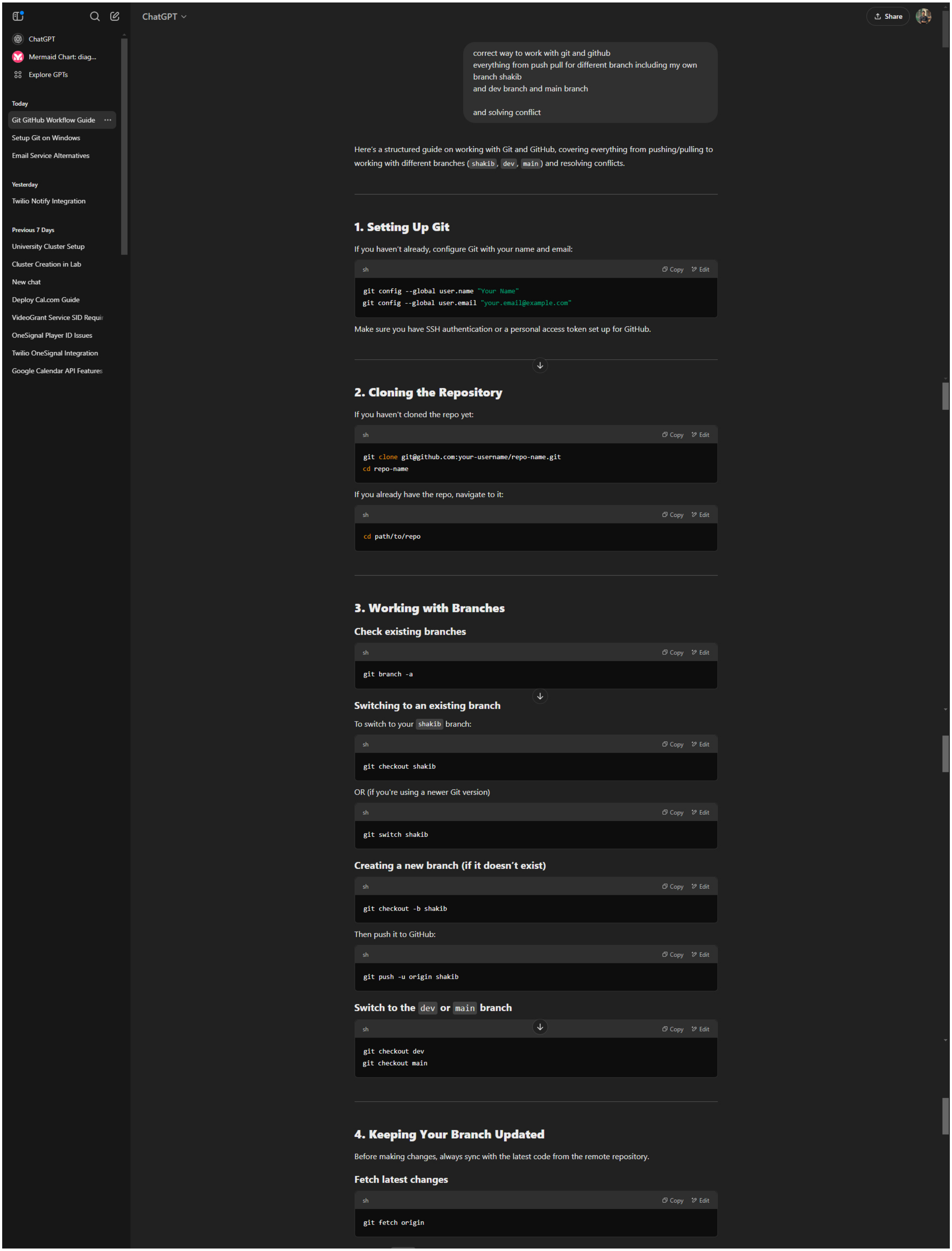
ChatGPT
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correct way to work with git and github
everything from push pull for different branch including my own branch shakib
and dev branch and main branch

and solving conflict

Here's a structured guide on working with Git and GitHub, covering everything from pushing/pulling to working with different branches (`shakib`, `dev`, `main`) and resolving conflicts.

---

1. Setting Up Git

If you haven't already, configure Git with your name and email:

```sh
git config --global user.name "Your Name"
git config --global user.email "your.email@example.com"
```

Make sure you have SSH authentication or a personal access token set up for GitHub.

---

2. Cloning the Repository

If you haven't cloned the repo yet:

```sh
git clone git@github.com:your-username/repo-name.git
cd repo-name
```

If you already have the repo, navigate to it:

```sh
cd path/to/repo
```

---

3. Working with Branches

Check existing branches

```sh
git branch -a
```

Switching to an existing branch

To switch to your `shakib` branch:

```sh
git checkout shakib
```

OR (if you're using a newer Git version)

```sh
git switch shakib
```

Creating a new branch (if it doesn't exist)

```sh
git checkout -b shakib
```

Then push it to GitHub:

```sh
git push -u origin shakib
```

Switch to the `dev` or `main` branch

```sh
git checkout dev
git checkout main
```

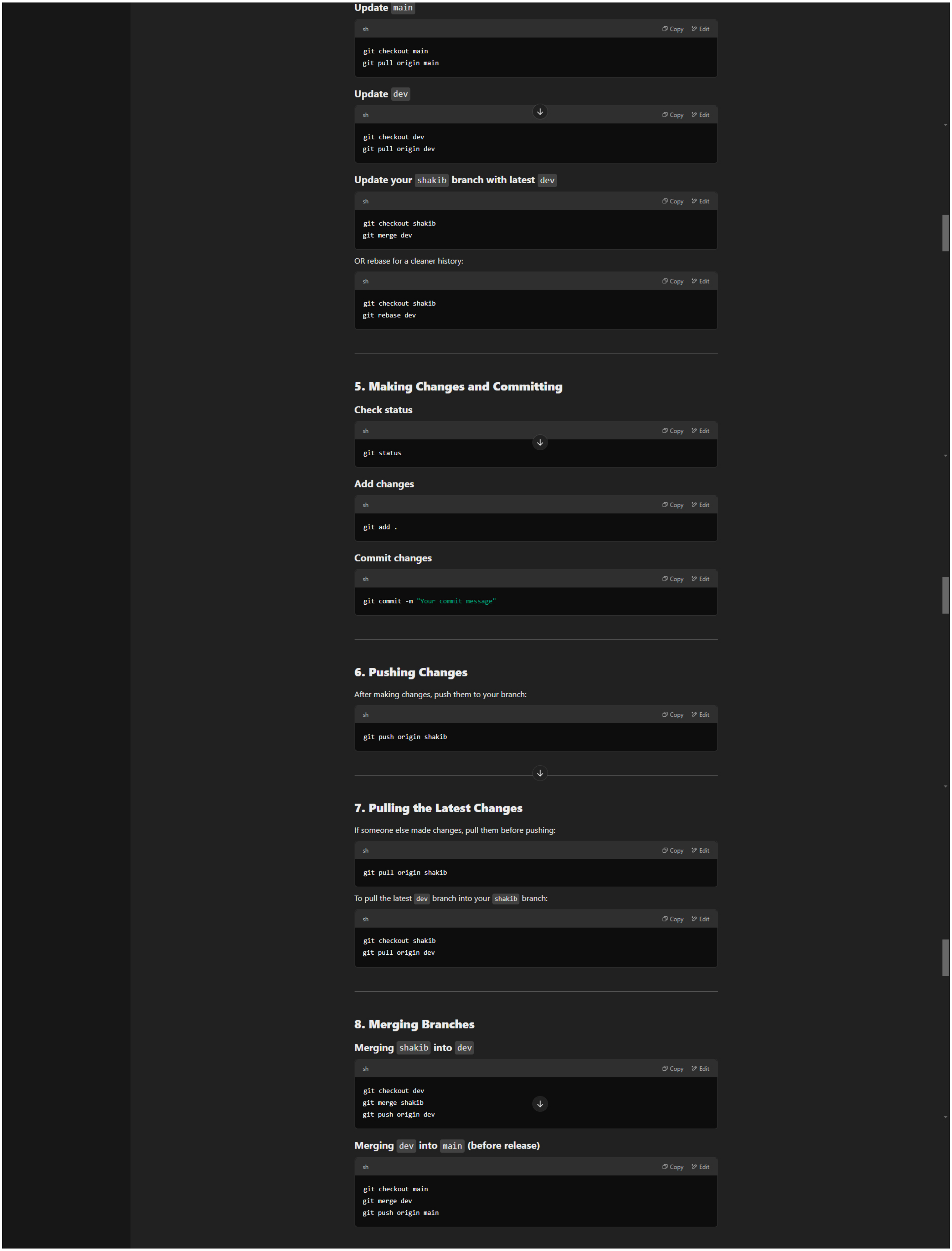
---

4. Keeping Your Branch Updated

Before making changes, always sync with the latest code from the remote repository.

Fetch latest changes

```sh
git fetch origin
```



Update `main`

```sh
git checkout main
git pull origin main
```

Update `dev`

```sh
git checkout dev
git pull origin dev
```

Update your `shakib` branch with latest `dev`

```sh
git checkout shakib
git merge dev
```

OR rebase for a cleaner history:

```sh
git checkout shakib
git rebase dev
```

---

5. Making Changes and Committing

Check status

```sh
git status
```

Add changes

```sh
git add .
```

Commit changes

```sh
git commit -m "Your commit message"
```

---

6. Pushing Changes

After making changes, push them to your branch:

```sh
git push origin shakib
```

---

7. Pulling the Latest Changes

If someone else made changes, pull them before pushing:

```sh
git pull origin shakib
```

To pull the latest `dev` branch into your `shakib` branch:

```sh
git checkout shakib
git pull origin dev
```

---

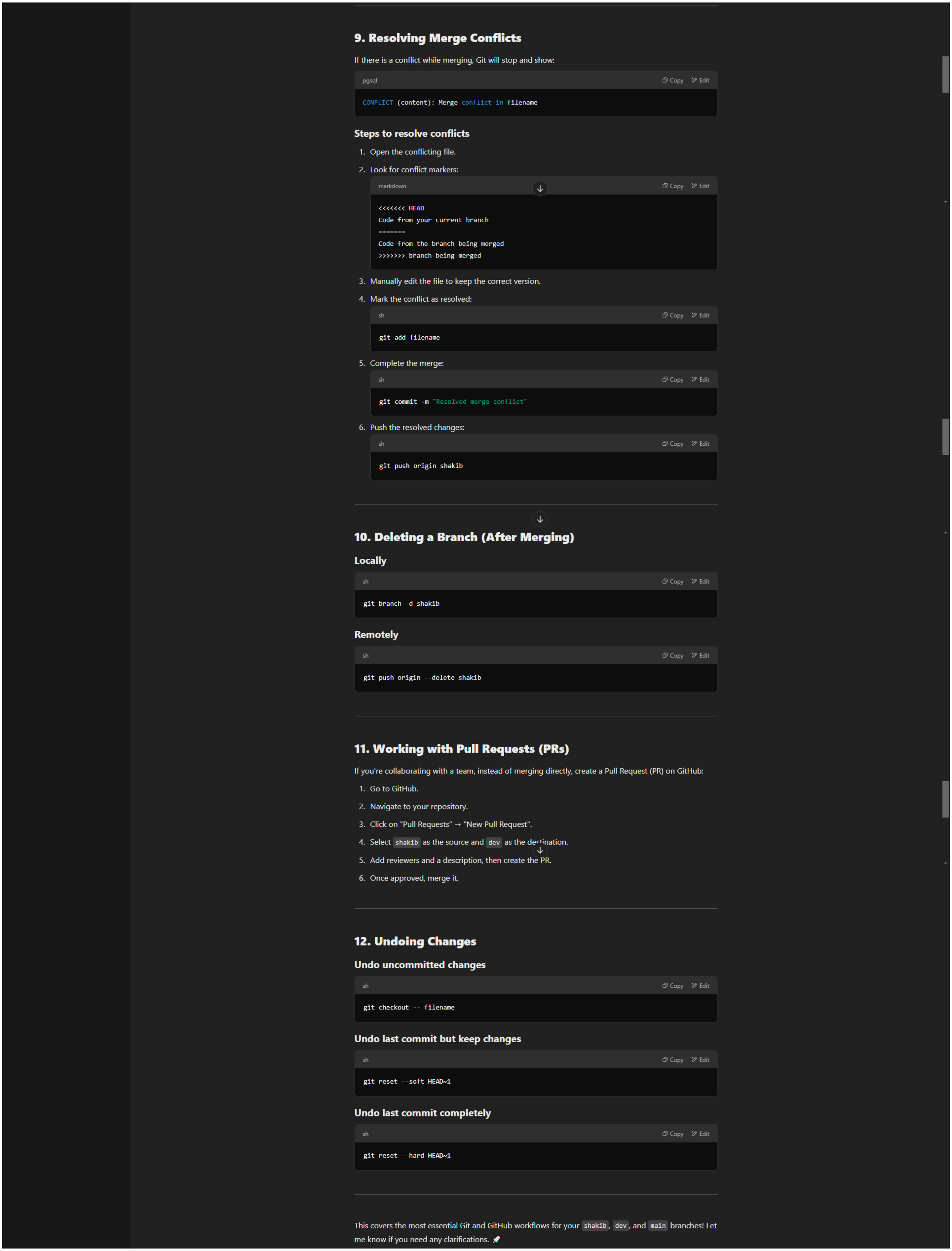
8. Merging Branches

Merging `shakib` into `dev`

```sh
git checkout dev
git merge shakib
git push origin dev
```

Merging `dev` into `main` (before release)

```sh
git checkout main
git merge dev
git push origin main
```



9. Resolving Merge Conflicts

If there is a conflict while merging, Git will stop and show:

```pgsql
CONFLICT (content): Merge conflict in filename
```

Steps to resolve conflicts

1. Open the conflicting file.
2. Look for conflict markers:
   ```markdown
   <<<<<<< HEAD
   Code from your current branch
   =======
   Code from the branch being merged
   >>>>>>> branch-being-merged
   ```
3. Manually edit the file to keep the correct version.
4. Mark the conflict as resolved:
   ```sh
   git add filename
   ```
5. Complete the merge:
   ```sh
   git commit -m "Resolved merge conflict"
   ```
6. Push the resolved changes:
   ```sh
   git push origin shakib
   ```

---

10. Deleting a Branch (After Merging)

Locally

```sh
git branch -d shakib
```

Remotely

```sh
git push origin --delete shakib
```

---

11. Working with Pull Requests (PRs)

If you're collaborating with a team, instead of merging directly, create a Pull Request (PR) on GitHub:

1. Go to GitHub.
2. Navigate to your repository.
3. Click on "Pull Requests" → "New Pull Request".
4. Select `shakib` as the source and `dev` as the destination.
5. Add reviewers and a description, then create the PR.
6. Once approved, merge it.

---

12. Undoing Changes

Undo uncommitted changes

```sh
git checkout -- filename
```

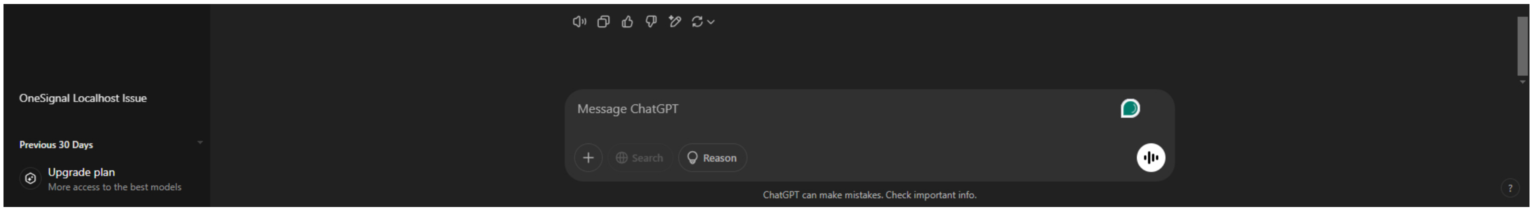
Undo last commit but keep changes

```sh
git reset --soft HEAD~1
```

Undo last commit completely

```sh
git reset --hard HEAD~1
```

This covers the most essential Git and GitHub workflows for your `shakib`, `dev`, and `main` branches! Let me know if you need any clarifications. 🚀


OneSignal Localhost Issue
Previous 30 Days
Upgrade plan
More access to the best models
Message ChatGPT
Search
Reason
ChatGPT can make mistakes. Check important info.
?