🔹 Project Title

Team-Based Full-Stack Notes & Weather App using GitHub

🔹 Project Overview

This project allows a team to collaboratively build a simple web application that:

- Lets users add & save notes
- Shows current weather using an API
- Uses GitHub for teamwork (branches, pull requests)

🔹 Technologies Used

- **Frontend:** HTML, CSS, JavaScript
- **Backend:** Node.js (Express) (optional for notes)
- **API:** OpenWeatherMap
- **Version Control:** GitHub

🔹 Team Roles (Example)

MEMBER	ROLE
STUDENT 1	Frontend (UI, Notes page)
STUDENT 2	Weather API integration
STUDENT 3	Backend / GitHub manager

🟢 STEP 1: Create GitHub Repository

Go to github.com

Click New Repository

Name it: notes-weather-app

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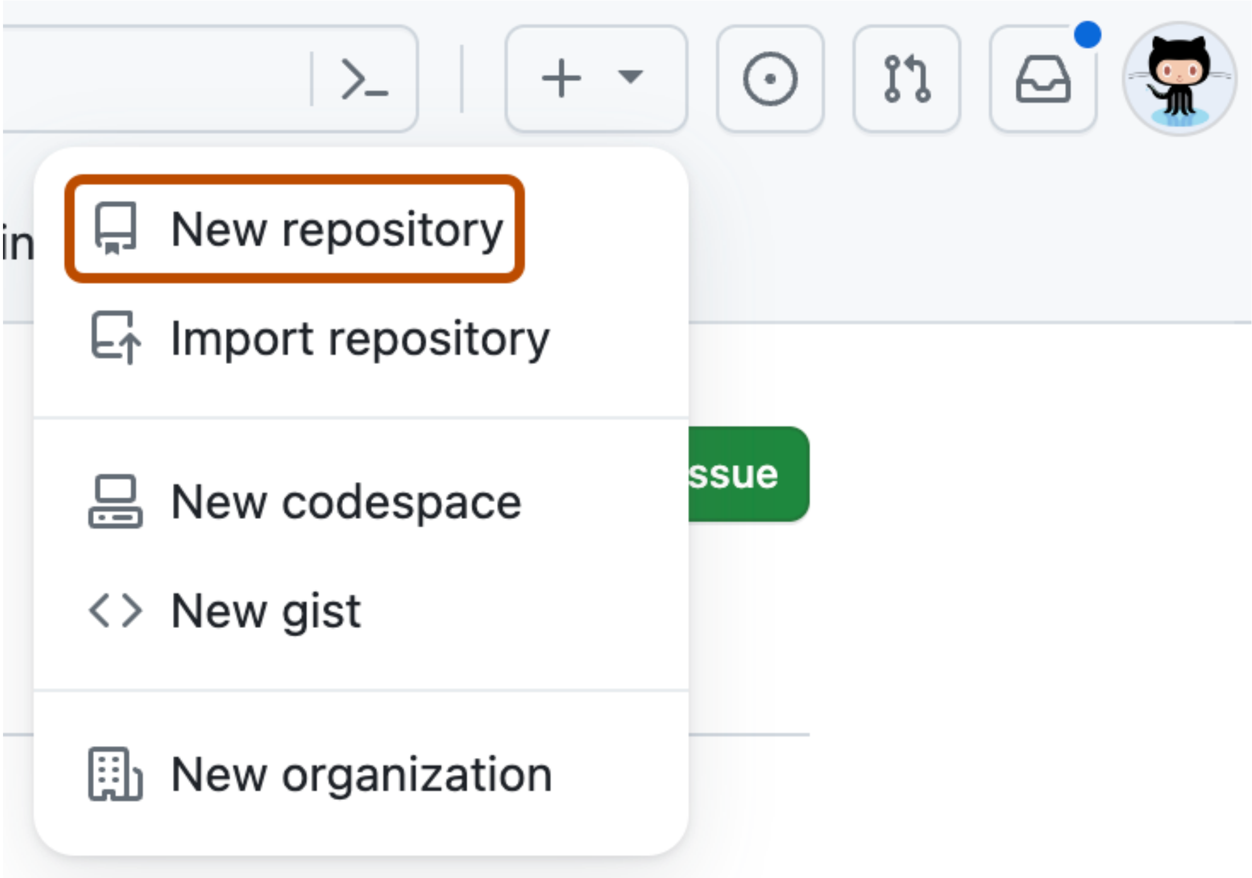
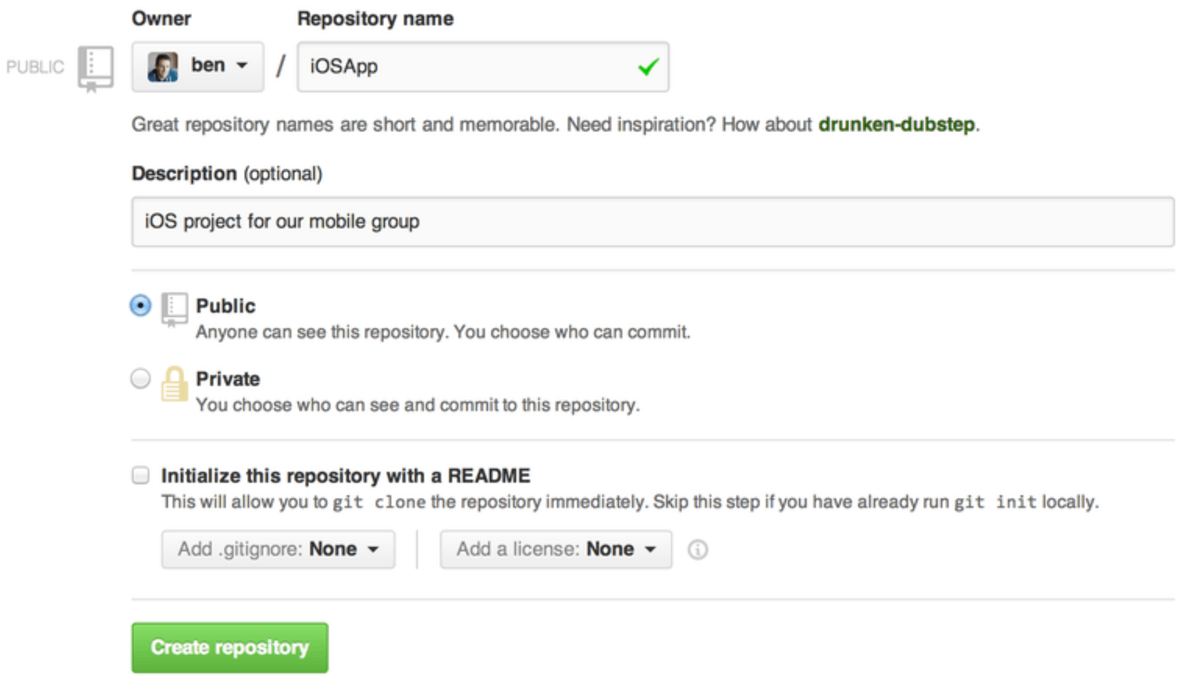
Select Public

Click Create repository





PUBLIC

Owner: ben / Repository name: iOSApp ✓

Great repository names are short and memorable. Need inspiration? How about **drunken-dubstep**.

Description (optional)

iOS project for our mobile group

● **Public**
Anyone can see this repository. You choose who can commit.

○ **Private**
You choose who can see and commit to this repository.

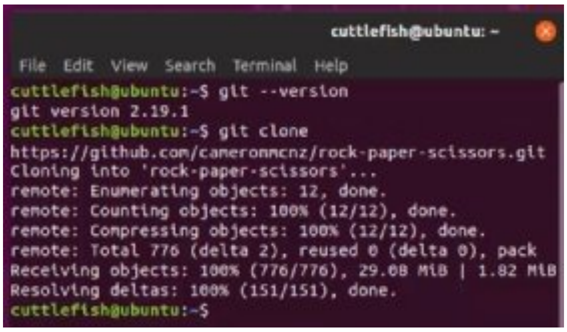
□ **Initialize this repository with a README**
This will allow you to `git clone` the repository immediately. Skip this step if you have already run `git init` locally.

Add .gitignore: **None** | Add a license: **None**

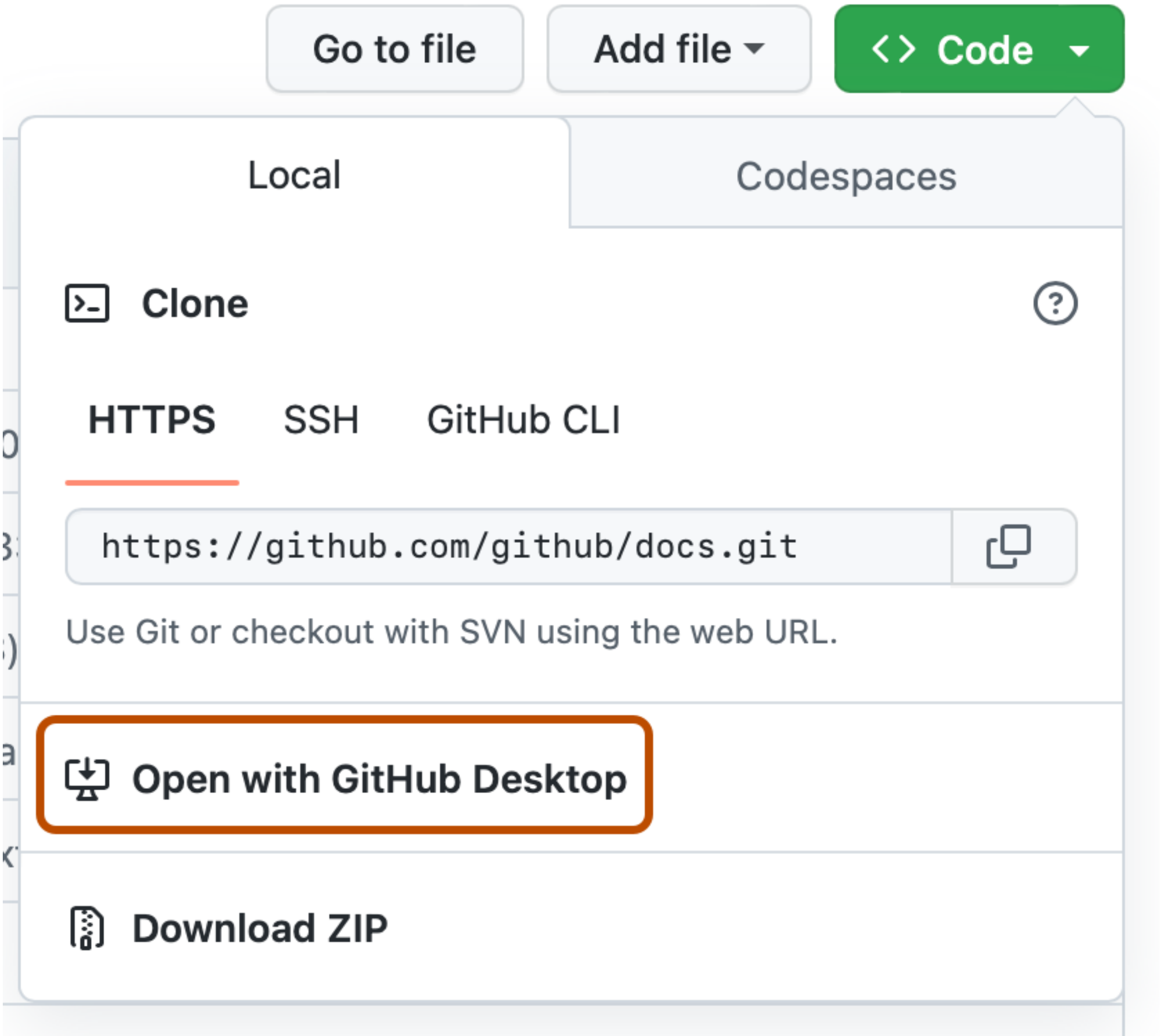
🟢 STEP 2: Clone Repository (All Team Members)

```
git clone https://github.com/username/notes-weather-app.git
```

cd notes-weather-app



```
cuttlefish@ubuntu:~$ git --version
git version 2.19.1
cuttlefish@ubuntu:~$ git clone
https://github.com/cameronmcnz/rock-paper-scissors.git
Cloning into 'rock-paper-scissors'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (12/12), done.
remote: Total 776 (delta 2), reused 0 (delta 0), pack
Receiving objects: 100% (776/776), 29.08 MiB | 1.82 MiB
Resolving deltas: 100% (151/151), done.
cuttlefish@ubuntu:~$
```



```
https://github.com/github/docs.git
```

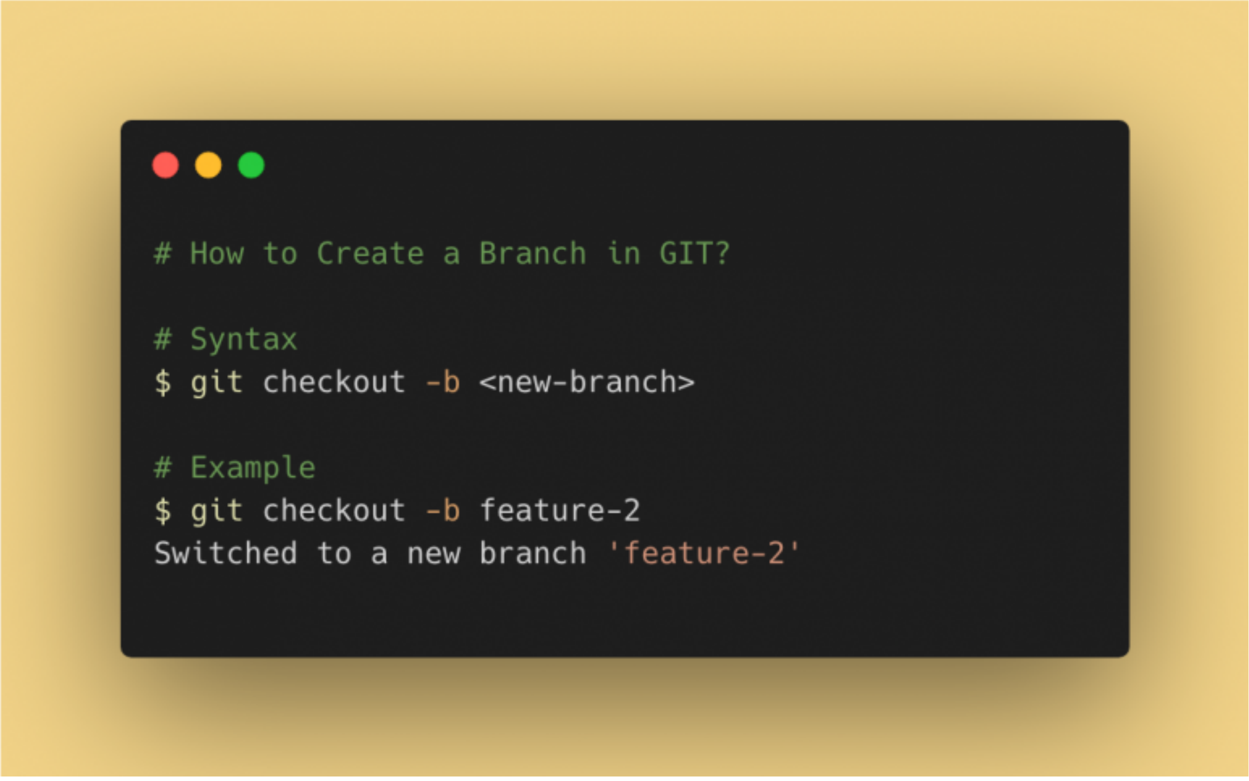
Use Git or checkout with SVN using the web URL.

🟢 STEP 3: Create Branches (Team Work)

Each member creates their own branch:

git checkout -b notes-feature

git checkout -b weather-feature



```
# How to Create a Branch in GIT?

# Syntax
$ git checkout -b <new-branch>

# Example
$ git checkout -b feature-2
Switched to a new branch 'feature-2'
```

🟢 STEP 4: Build Frontend (Notes Page)

Create files:

index.html

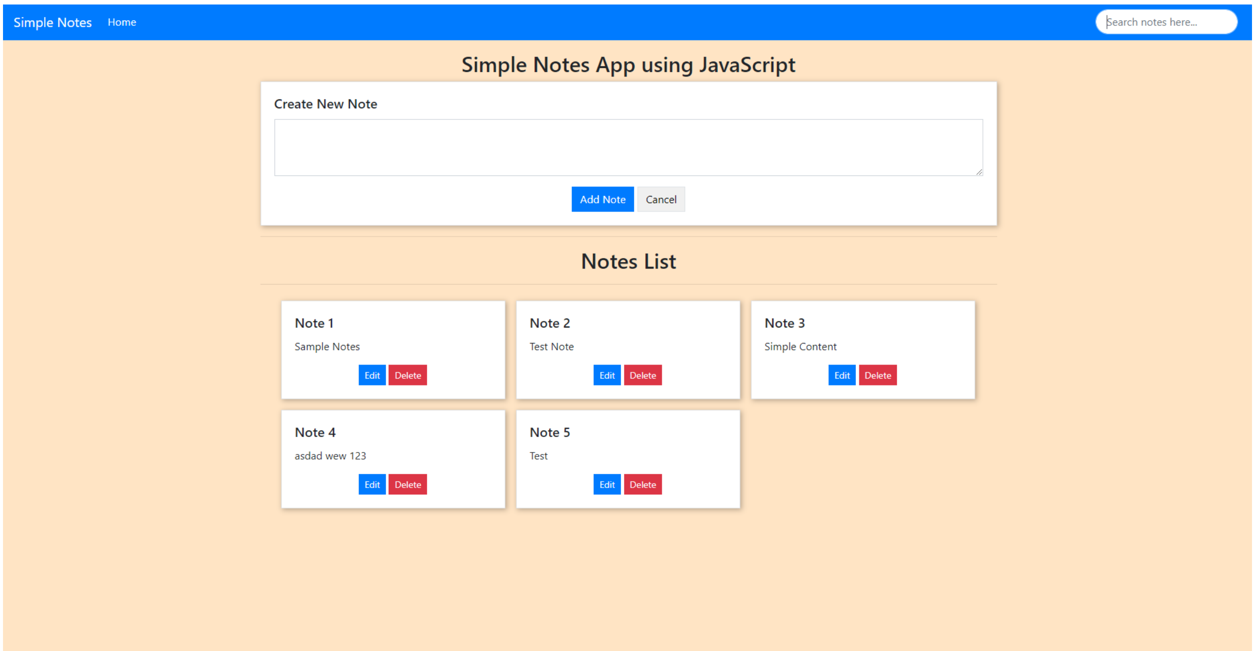
style.css

script.js

Simple Notes UI

<textarea id="note"></textarea>

<button onclick="saveNote()">Save</button>

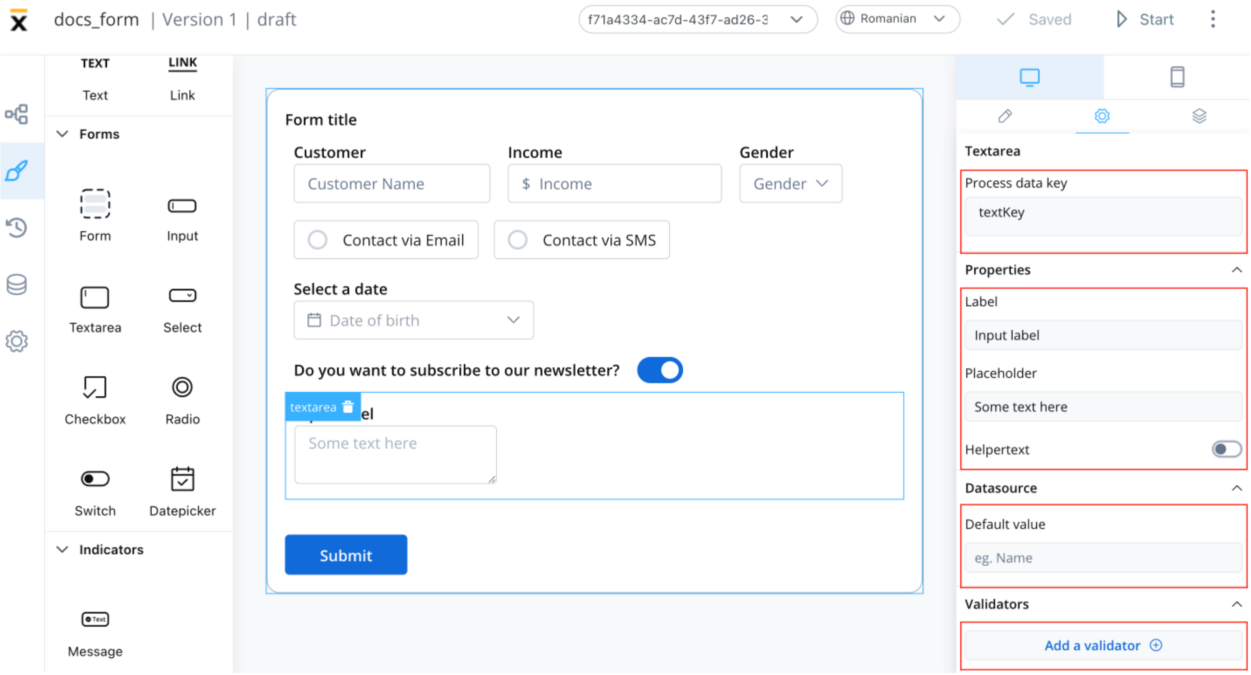


Simple Notes App using JavaScript

Create New Note

Notes List

Note	Content
Note 1	Sample Notes
Note 2	Test Note
Note 3	Simple Content
Note 4	asdad wew 123
Note 5	Test



Form title

Customer: Customer Name

Income: $ Income

Gender: Gender

○ Contact via Email ○ Contact via SMS

Select a date: Date of birth

Do you want to subscribe to our newsletter? ●

Some text here

Textarea

Process data key: textKey

Properties

Label: Input label

Placeholder: Some text here

Helpertext

Datasource

Default value: eg. Name

Validators

Add a validator ⊕

🟢 STEP 5: Weather API Integration

Get free API key from OpenWeatherMap

Use JavaScript fetch

```
fetch(`https://api.openweathermap.org/data/2.5/weather?q=Delhi&appid=API_KEY`)
```

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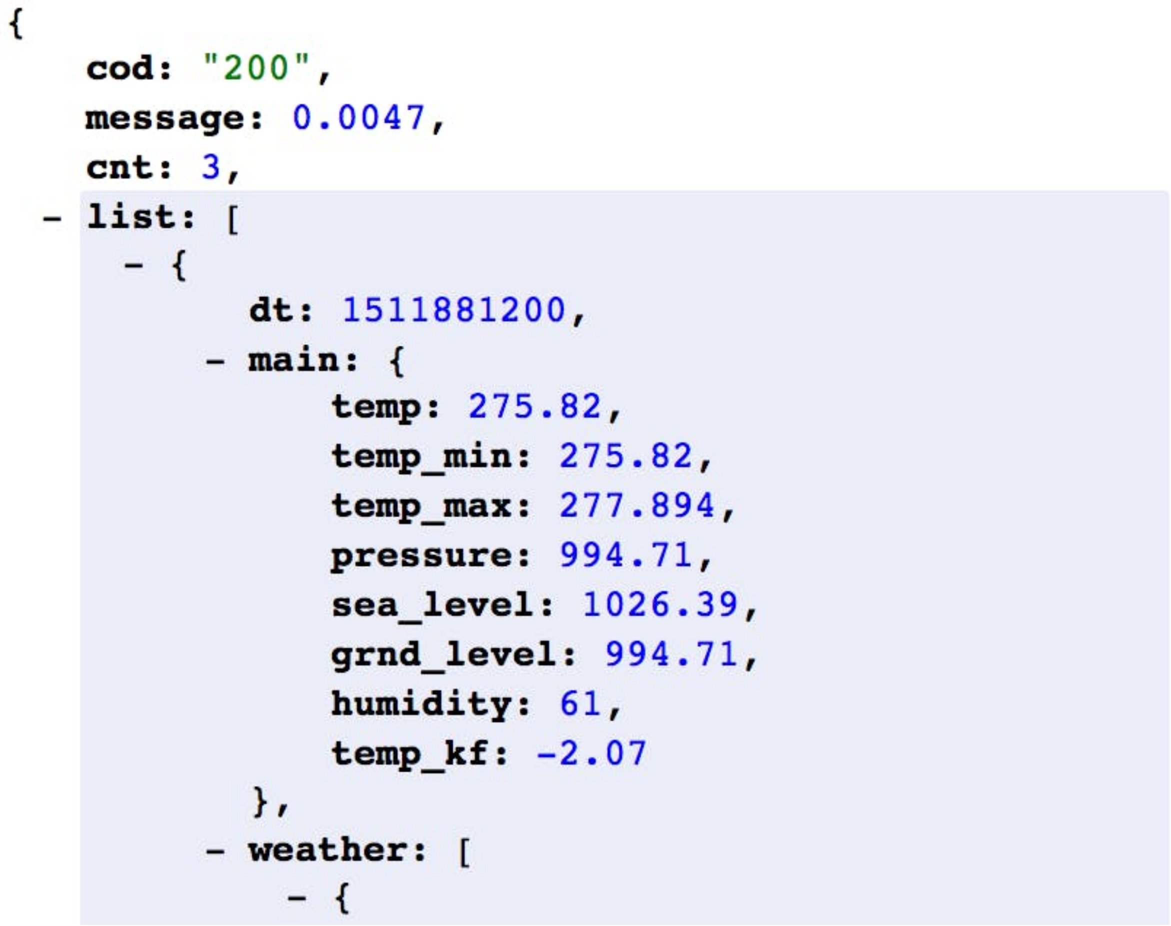


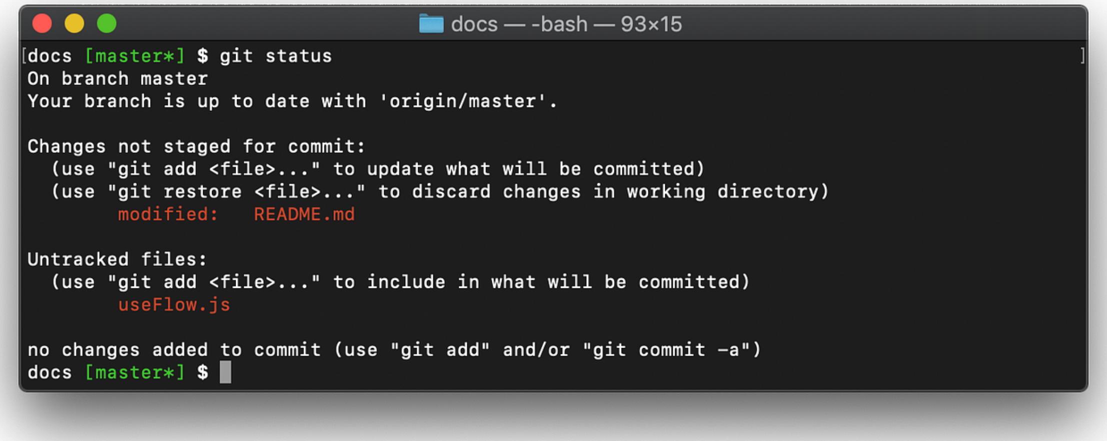
```
{
    cod: "200",
    message: 0.0047,
    cnt: 3,
  - list: [
      - {
            dt: 1511881200,
          - main: {
                temp: 275.82,
                temp_min: 275.82,
                temp_max: 277.894,
                pressure: 994.71,
                sea_level: 1026.39,
                grnd_level: 994.71,
                humidity: 61,
                temp_kf: -2.07
            },
          - weather: [
              - {
```

🟢 STEP 6: Commit & Push Changes

git add .

git commit -m "Added notes feature"

git push origin notes-feature

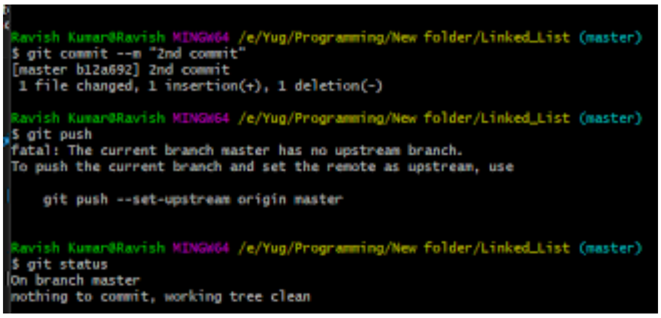


```
[docs [master*] $ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        useFlow.js

no changes added to commit (use "git add" and/or "git commit -a")
docs [master*] $ 
```



```
Ravish Kumar@Ravish MINGW64 /e/Yug/Programming/New folder/Linked_List (master)
$ git commit --m "2nd commit"
[master b12a692] 2nd commit
 1 file changed, 1 insertion(+), 1 deletion(-)

Ravish Kumar@Ravish MINGW64 /e/Yug/Programming/New folder/Linked_List (master)
$ git push
fatal: The current branch master has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin master


Ravish Kumar@Ravish MINGW64 /e/Yug/Programming/New folder/Linked_List (master)
$ git status
On branch master
nothing to commit, working tree clean
```

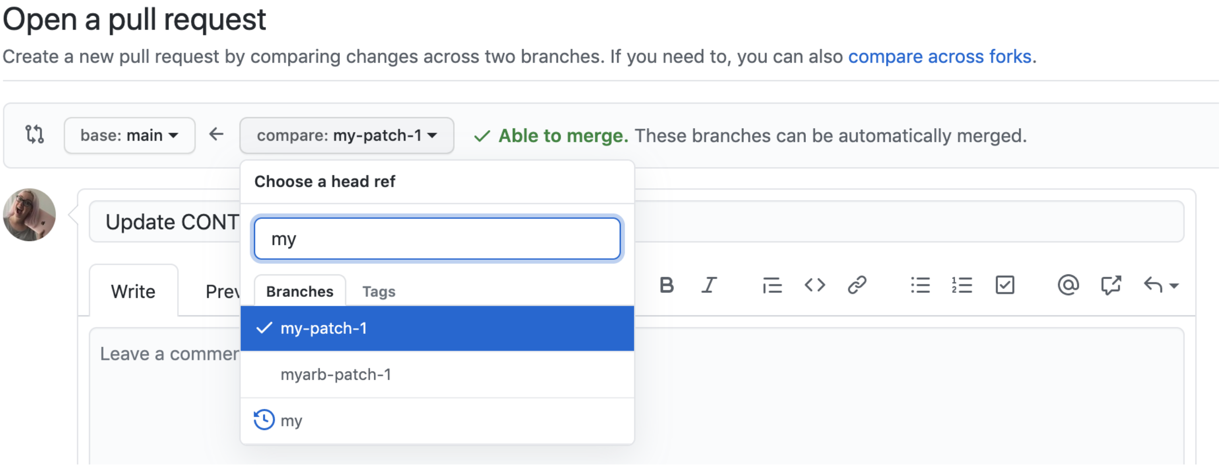
🟢 STEP 7: Pull Request & Merge

Open GitHub repository

Click Compare & Pull Request

Team leader reviews

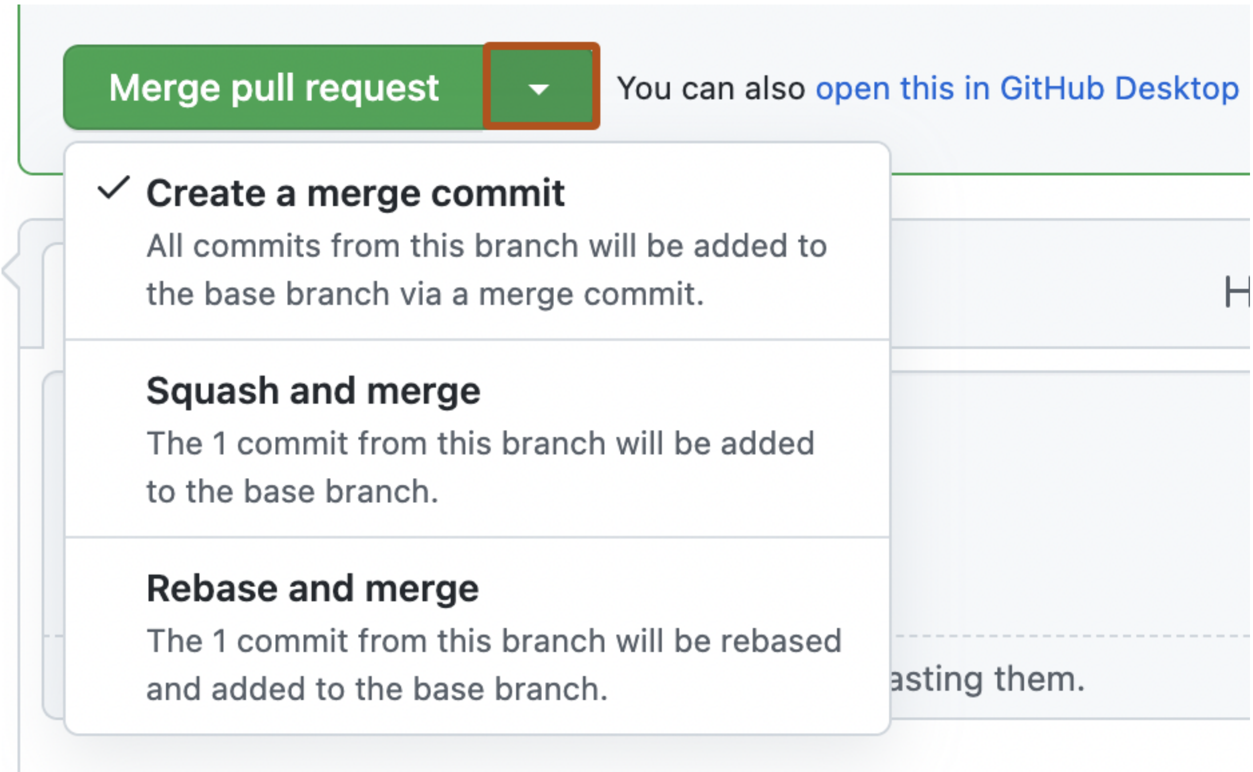
Click Merge



Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks.

base: main ← compare: my-patch-1 ✓ Able to merge. These branches can be automatically merged.



Merge pull request ▾ You can also open this in GitHub Desktop

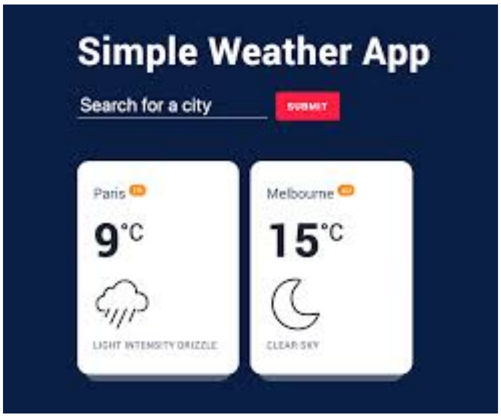
✓ **Create a merge commit**
All commits from this branch will be added to the base branch via a merge commit.

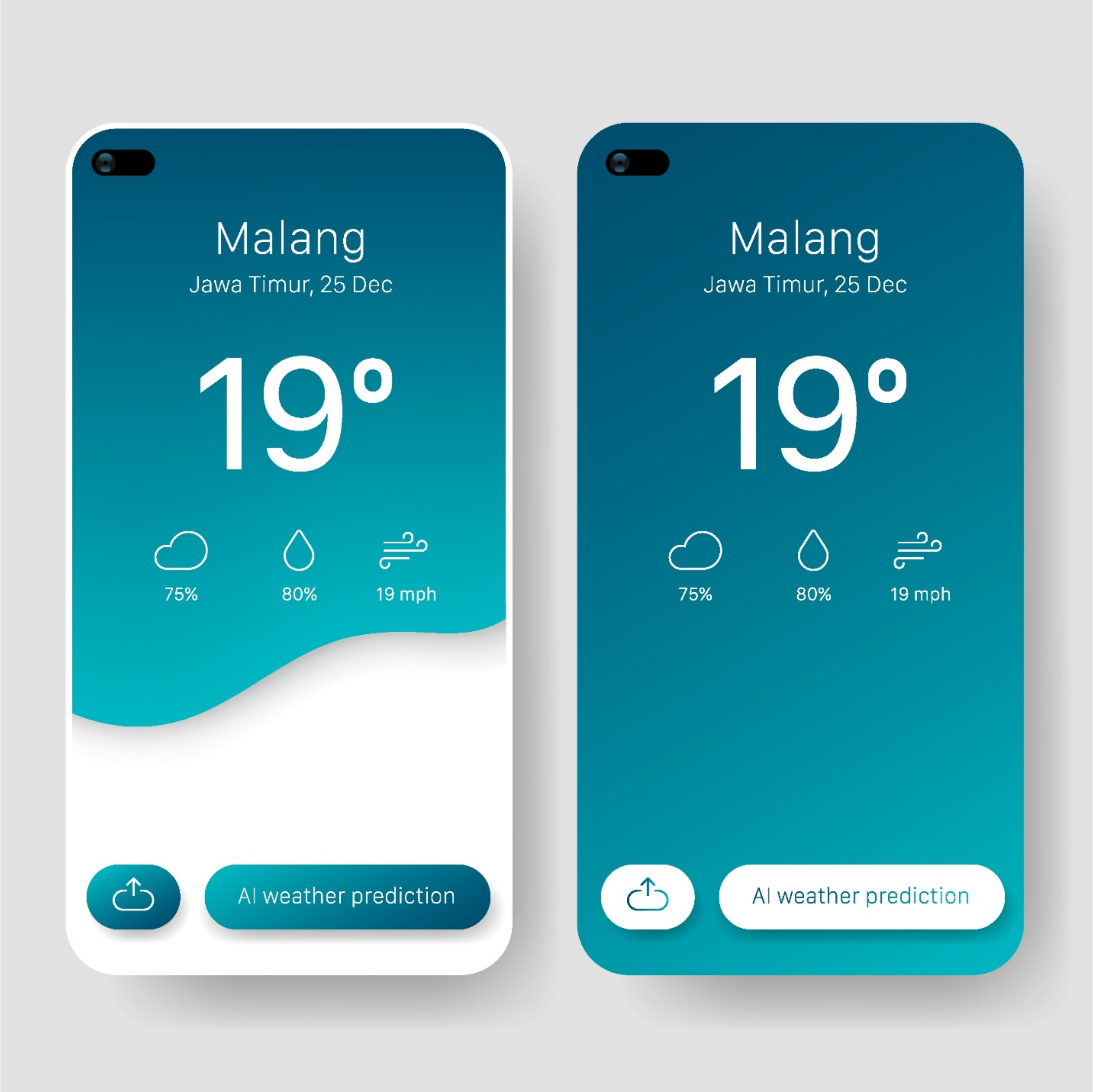
Squash and merge
The 1 commit from this branch will be added to the base branch.

Rebase and merge
The 1 commit from this branch will be rebased and added to the base branch.

🟢 STEP 8: Final Output

✔ Notes section working✔ Weather info displayed✔ Team collaboration done





- Advantages of This Project

  - Real team experience
  - Learn GitHub collaboration
  - Practical full-stack skills

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