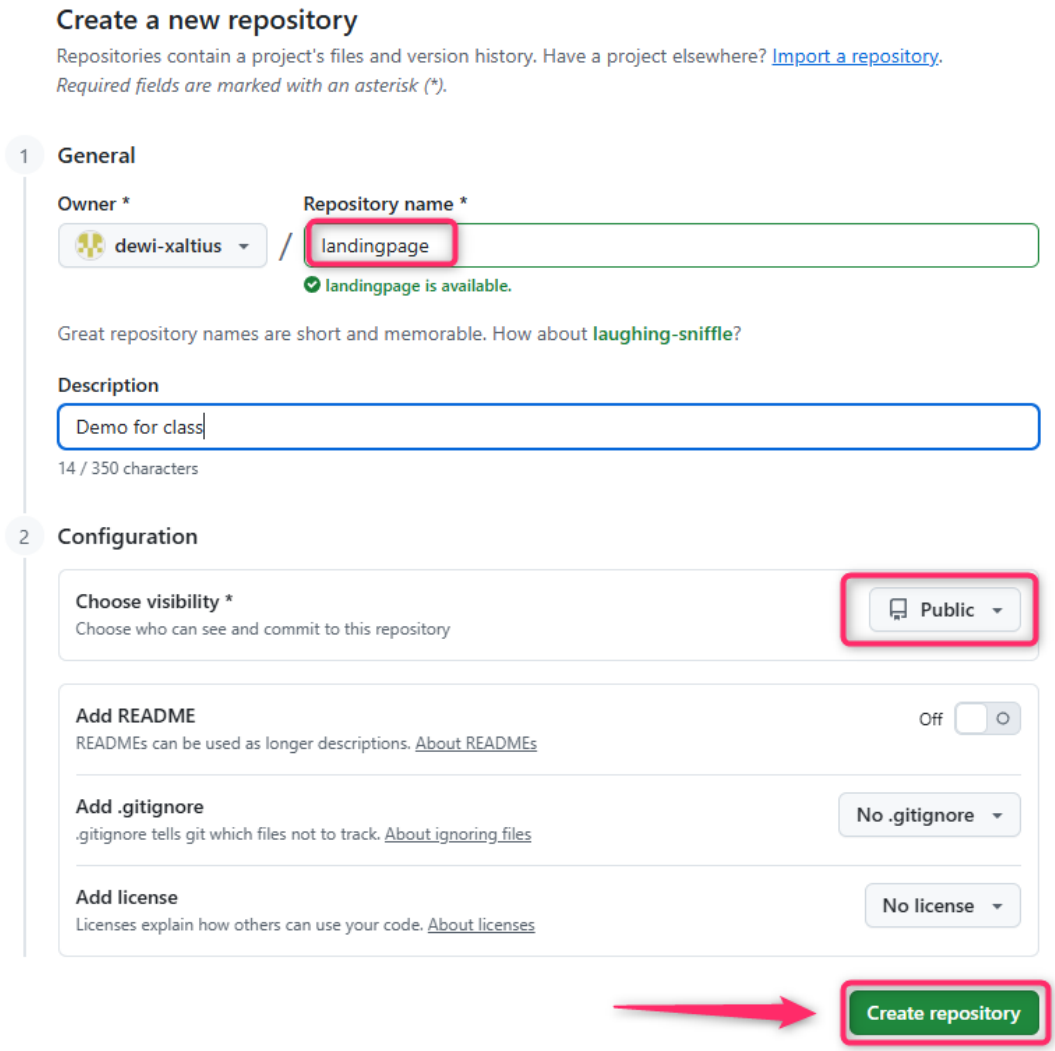
Scenario: You are creating a community club landing page that has "Meet the Team" section. This new page will list the team members.

1. Create a Repository on GitHub



2. Clone the Repository to Your Local Machine
   Open your VS Code terminal

```
git clone your-github-url.git
```

3. Add an index.html in the main branch. Commit the changes and push to your GitHub repo. Make sure you can see the new file addition.
   The following are useful git commands to check on branches:

```
git status
```

   This shows you which branch you are on.

```
git checkout main
```

   This moves you to main branch.

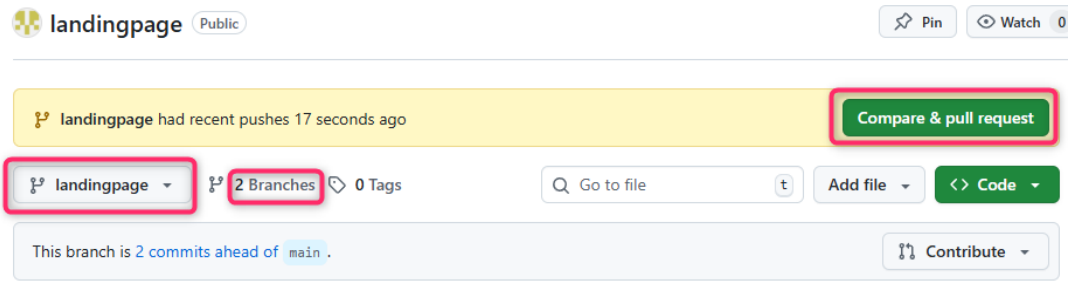
```
git branch
```

This shows you all the available branches.

4. Create a new branch for a new feature

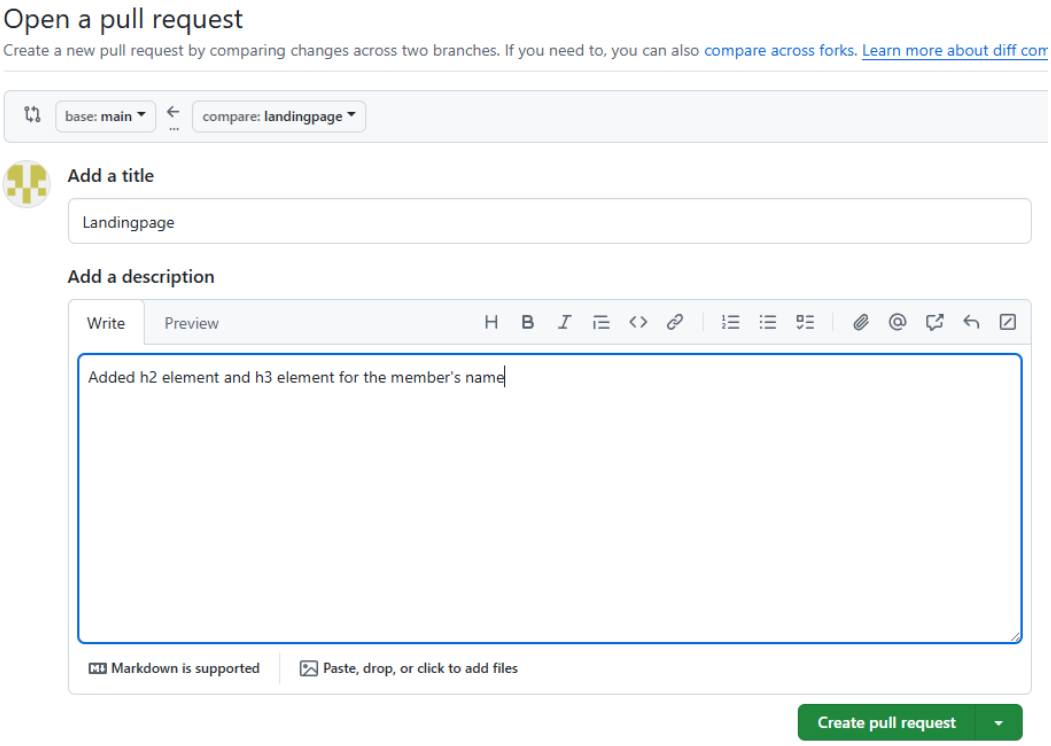
```
git checkout -b landingpage
```

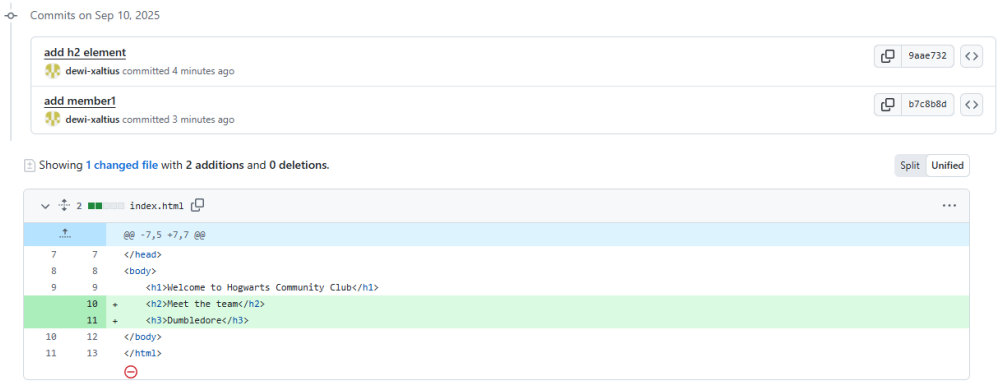
5. Add team member's name and commit the changes. Publish the new branch.



In your GitHub repo, you should be able to see the new branch and the new code.

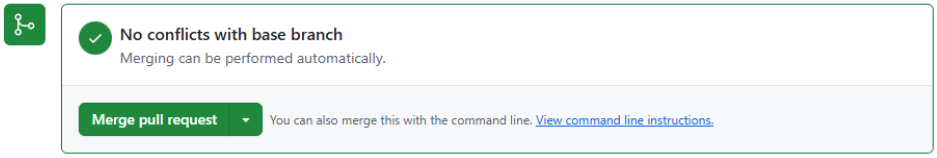
6. Create and Merge a Pull Request



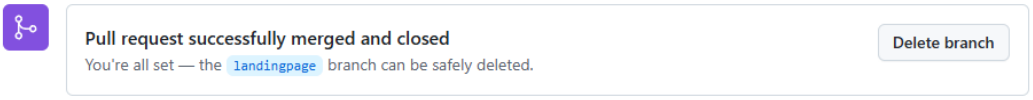


You can see the commits history and the changes made to the code in the section below the pull request.

7. Merge the PR



8. Once you have merged the new branch to main, you can delete the branch.



9. To delete the branch in your local machine:
   First, you need to switch to the main branch:

```
git checkout main
```

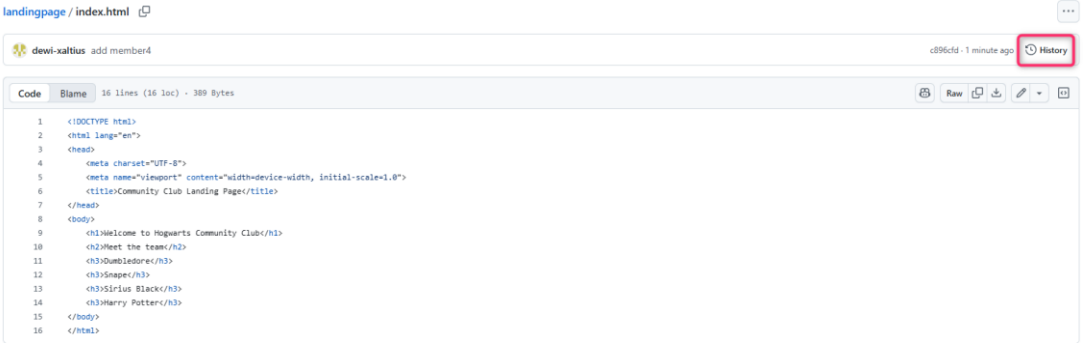
   Then you need to sync/pull the new changes to your local machine:

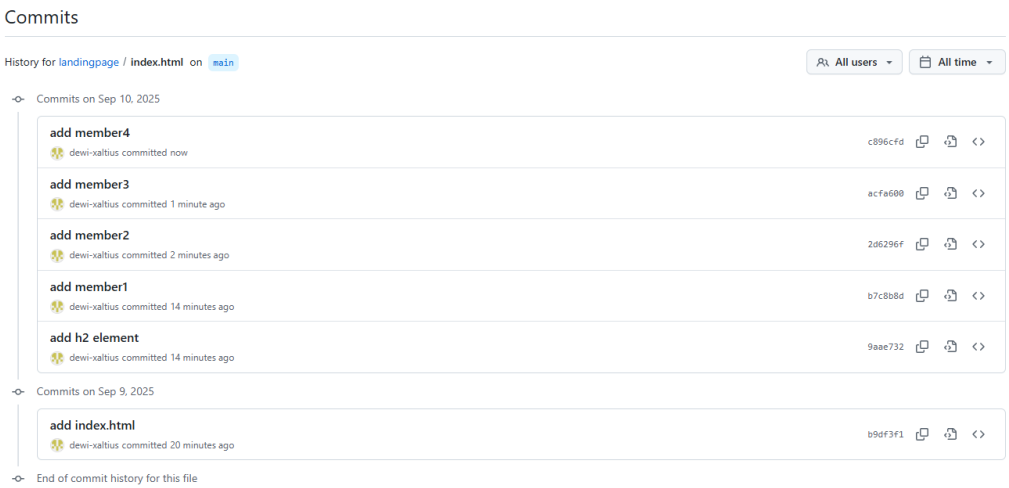
```
git pull origin main
```

   Delete the branch:

```
git branch -d branchName
```

10. Add more changes to the index.html so you can create at least 3 commits.
    You can view the commit history in your GitHub:





11. Choose which commit you need to revert to:

```
git revert commit-hash
```

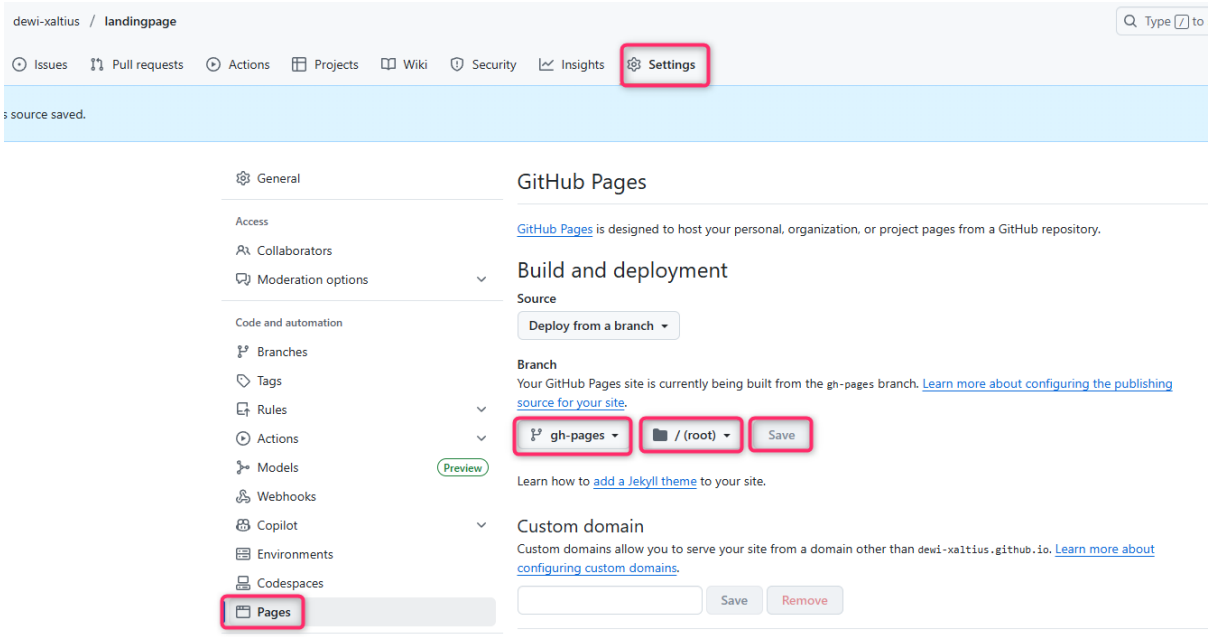
12. Resolve conflict (if any). Git revert creates a new commit that reverses the changes of the specified commit. This makes it a safer option for undoing changes on shared branches because it doesn't affect the existing history that other team members may be working with.

CD/CD with GitHub actions

Using the same GitHub repo as above:

1. Create a folder in the root directory: .github/workflows
   Create a file for the YAML: cicd.yaml
   Check Canvas to download the file. This file contains the instructions to continuously build and deploy to GitHub Pages.

2. Go to your GitHub repo -> Settings -> Pages and input the following setting as the screenshot:



3. Check the published/deployed page at https://your-github-username.github.io/your-GitHub-repo-name

4. Make some changes in your code and push these changes into your GitHub repo. You will see that the CI/CD will be triggered and automatically deployed the changes to the published page.