SOEN 341

Tutorial 2

Agenda

- Intro to GitHub and Git (continued)

Git WorkFlow

1. Open terminal (i.e. cd)

2. Navigate to root directory of your project (local folder).

3. Initialize the local directory as a Git repository.

$ git init -b main

4. Add files in your local new repo
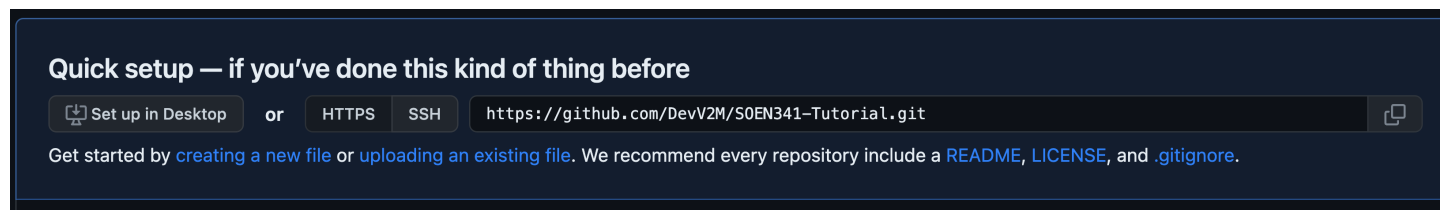
$ git add .   // stages them for the first commit.

5. Commit the files that you've staged in your local repository.

$ git commit -m "First commit"

Adding a local repository to GitHub using Git

1.   Create a new repository on GitHub.com. To avoid errors, do not initialize the new repository with README, license, or gitignore files. You can add these files after your project has been pushed to GitHub.

2.   At the top of your repository on GitHub.com's Quick Setup page, click to copy the remote repository URL.


```
Quick setup — if you've done this kind of thing before

[⊞ Set up in Desktop]   or   [ HTTPS ] [ SSH ]   https://github.com/DevV2M/SOEN341-Tutorial.git        ⧉

Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.
```

3.   Open terminal

4.   Change the current working directory to your local project.

5.   Add the URL for the remote repo where your local repository will be pushed.

$ git remote add origin <REMOTE_URL> // Sets the new remote

$ git remote -v // Verifies the new remote URL

Push changes in your local repository to GitHub.com.

$ git push -u origin main //Pushes the changes in your local repository up to the remote repository you specified as the origin

Feature Branch Workflow

1. Create a branch for the new feature (called a "feature branch":

$ git branch new-feature

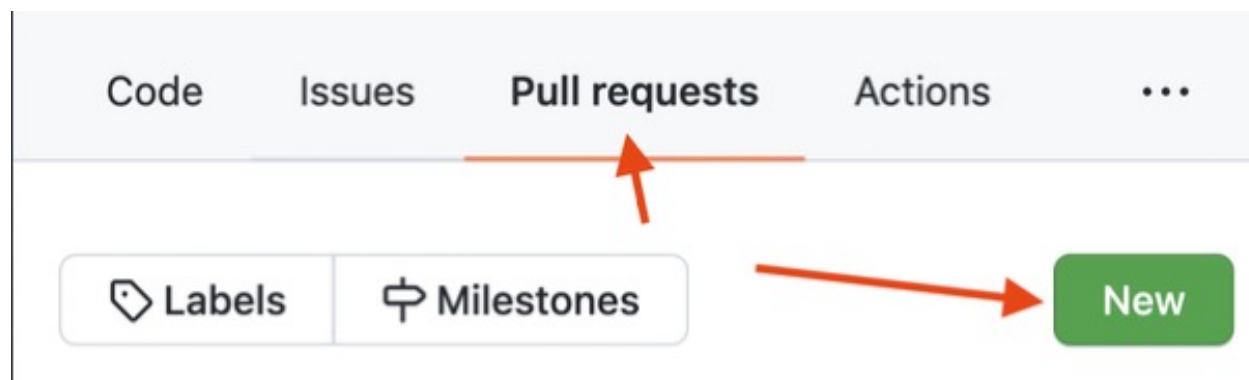$ git checkout new-feature

// Make some changes to the code…

$ git add .

$ git commit –m "new feature message"
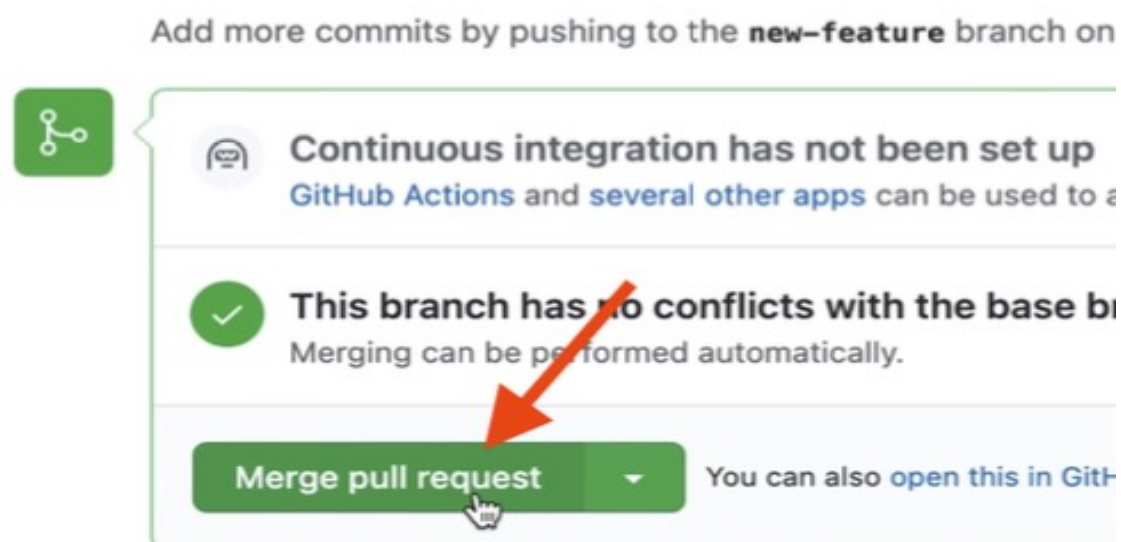
2. Upload the feature branch to GitHub

$ git push origin new-feature

Feature Branch Workflow

3. Create a pull request on GitHub

4. Merge the feature branch into the main branch via GitHub

Feature Branch Workflow

5. After merging, update the local repository (so that it stays in sync with the remote repo on GitHub)
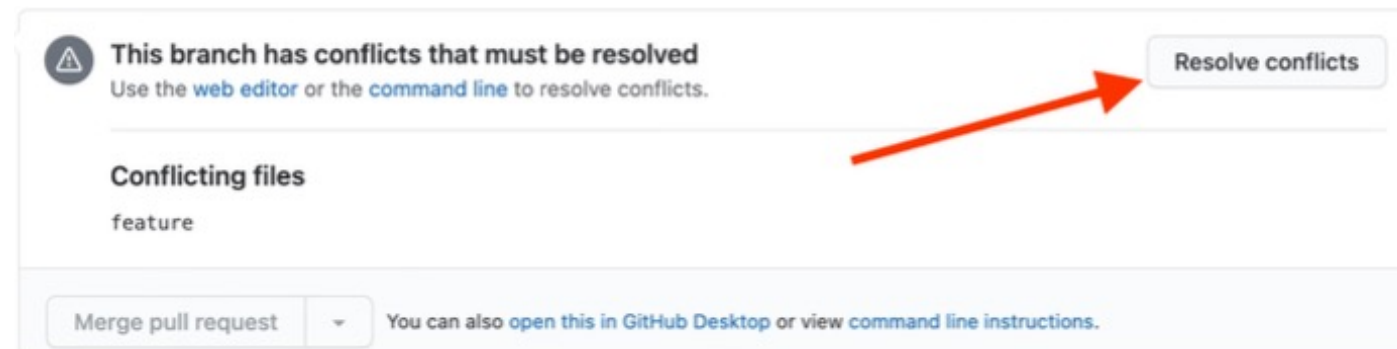
$ git checkout main

$ git pull origin main

Feature Branch Workflow

Merge Conflicts in the Feature Branch Workflow

We can either:

1. Resolve the merge conflict on GitHub.

Feature Branch Workflow

2. Resolve the merge conflict on our computer

Get the latest updates from (i.e. main branch)

$ git checkout main

$ git pull origin main

Get the latest updates from the feature branch

$ git checkout feature-branch

$ git pull origin feature-branch

Feature Branch Workflow

Merge main into the feature branch. Notice the direction of the merge: we main the merge commit to stay on the feature branch so our teammates can review it.

$ git checkout feature-branch

$ git merge main

Push the resolved feature branch to GitHub

$ git push origin feature-branch

GitHub Issues and Projects

<> Code   ① Issues   0   ⑂ Pull requests   0   ▥ Projects   0   ▦ Wiki   ⋏ Pulse   ⅲ Graphs   ⚙ Settings

US-01 As a user, I would like to login so that I have access to the system.

Write   Preview

AA▾ B *i*   " <> ⌗   ☰ ☰ ☷   ↩▾ @ ◫

[user story or requirement template based on class]

Attach files by dragging & dropping, selecting them, or pasting from the clipboard.

Ⓜ Styling with Markdown is supported

Submit new issue

Assignees   ⚙
No one—assign yourself

Labels   ⚙
None yet

Milestone   ⚙
No milestone

Referencing issue on a commit

Issue with references

Create an experiment #3

⊙ **Open**   **guipadua** opened this issue 12 minutes ago · 0 comments

---

guipadua commented 12 minutes ago   [Owner]   + 😊   ✏️

☐ Add new experiment file

⌖ 🖼 **guipadua** added this to the **Sprint 1** milestone 11 minutes ago

🔖 🖼 **guipadua** referenced this issue just now
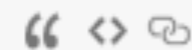
    ◦ 🖼 `add experiment text` 💬   cb35fd2

| Write | Preview | | AA⁻ B *i*   66 <> 🔗   ☰ ☷ ✔☰   ↰⁻ @ 🔖 |

Leave a comment

Attach files by dragging & dropping, **selecting them**, or pasting from the clipboard.

M↓ Styling with Markdown is supported   [Close issue]   [**Comment**]

pull request

<> Code   (i) Issues 0   [f] **Pull requests** 0   [|||] Projects 0   [==] Wiki   ∿ Pulse   [.ll] Graphs   ⚙ Settings

Filters ▾   🔍 is:pr is:open | Labels   Milestones   New pull request

☐   [f] **0 Open**   ✓ 1 Closed   Author ▾   Labels ▾   Milestones ▾   Assignee ▾   Sort ▾

[f]

There aren't any open pull requests.

Use the links above to find what you're looking for, or try a new search query. The Filters menu is also super helpful for quickly finding issues most relevant to you.

master branch (base) will receive changes from experiment (compare) branch

Request a Review

add experiment text #1

Edit

🏷 Open **guipadua** wants to merge 1 commit into `master` from `experiment`

💬 Conversation 0 | �" Commits 1 | ⊡ Files changed 1 | +1 −0 ■□□□□

guipadua commented just now | Owner +😊 ✎

hey, can you check if it's ok and approve?

⟳ add experiment text | cb35fd2

👁 **guipadua** requested a review from **moiz28** just now

Add more commits by pushing to the **experiment** branch on **guipadua/soen341_tutorial**.

✓ **Review requested** Hide all reviewers
Review has been requested on this pull request. It is not required to merge. Learn more.

● **moiz28** was requested for review

✓ **This branch has no conflicts with the base branch**
Merging can be performed automatically.

Merge pull request ⌄ You can also open this in GitHub Desktop or view command line instructions.

Reviewers ⚙
moiz28 ●

Assignees ⚙
No one—assign yourself

Labels ⚙
None yet

Projects
None yet

Milestone ⚙
No milestone

Notifications
🔇× Unsubscribe

You're receiving notifications because you authored the thread.

Reviewer Comment, Approve or Request changes

add experiment text #1   Edit

Open   **guipadua** wants to merge 1 commit into `master` from `experiment`

| Conversation 0 | Commits 1 | Files changed 1 |

Changes from **all commits** ▾   **1 file** ▾   **+1 −0** ■■■■■   Unified   **Split**   **Review changes** ▾

1 ■■■■■ experiment.txt

```
...   ...   @@ -0,0 +1 @@
        1   +Experimental file.
```

© 2017 GitHub, Inc.   Terms   Privacy   Security   Status   Help

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Submit your review   ✕

Review summary

Good job!|

◉ **Comment**
Submit general feedback without explicit approval.

◯ **Approve**
Submit feedback and approve merging these changes.

◯ **Request changes**
Submit feedback that must be addressed before merging.

Submit review

Merge executed, pull request closed

add experiment text #1

Merged **mehranhassani** merged 1 commit into `master` from `experiment` 5 days ago

💬 Conversation **1**   ⊙ Commits **1**   📄 Files changed **1**

+1 −0 ■■■■■

guipadua commented 5 days ago   Owner +☺ ✏

hey, can you check if it's ok and approve?

⊙   📷 add experiment text 💬   cb35fd2

👁   📷 **guipadua** requested a review from **moiz28** 5 days ago

✓   **moiz28** approved these changes 5 days ago   **View changes**

Good job!

📷 **mehranhassani** merged commit **38220f4** into `master` 5 days ago   **Revert**

💡 **Avoid bugs by automatically running your tests.**
Continuous integration can help catch bugs by running your tests   **Learn more**   ✕
automatically.
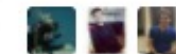Merge your code with confidence using one of our continuous integration providers.

guipadua commented on cb35fd2 15 minutes ago   Owner +☺ ✏ ✕

fixes #3

Pull request successfully merged and closed   ⑂ **Delete branch**
You're all set—the `experiment` branch can be safely deleted.

Reviewers ⚙
📷 moiz28   ✓

Assignees ⚙
No one—assign yourself

Labels ⚙
None yet

Projects ⚙
None yet

Milestone ⚙
No milestone

Notifications
🔇 **Unsubscribe**
You're receiving notifications
because you authored the thread.

3 participants
📷 📷 📷

🔒 Lock conversation

Stay here if you have any questions