

# UML PREDESIGN

CS 5010 – FALL 2022 – BRIAN CROSS

As part of your homework, we'd like you to submit a predesign of your solution represented as UML. This will help ensure that you think about the problem(s) being presented to you early enough to:

1. Understand the problems to be solved
2. Have thought about the design before a large portion of your coding has been done
3. Help you realize if there are questions you may have about your design and the problems of the homework. If you identify the questions early, you'll have more time to ask questions and get any feedback.

## REQUIREMENTS FOR SUBMITTING YOUR UML PREDESIGN

Because this should be done early in your homework, you have a few options on how you generate your UML. The end result is that you should have your UML in an image format (PDF or PNG is recommended) that you can commit to your git repo (details further in this document).

You may generate the UML through whatever mean you'd like, just please have the result be in a PDF/PNG/Image-format named in the following format: `<hw#>_<description>.png`

Example for the predesign of homework #1 if you were to have only 1 UML:

- HW1\_UML.png

Example if you decided to have 2 UMLs:

- HW1\_PROBLEM1.png
- HW1\_PROBLEM2.png

(Having multiple UMLs may not make sense, it is completely up to you. Just showing an example of how to name them if you decide).

Because you should do your UML Predesign before you do the coding of the problem, here are a few ways you can create your UML:

- Pencil and Paper - Draw it yourself and then take a picture with your phone and submit that photo
- IntelliJ – You can code the stubs for your classes (empty bodies, no need to implement, just get the structure) and then have IntelliJ generate the UML for you. Bonus in doing it this way is that you then have the classes ready to implement.
- Various online UML tools – There are many tools online for you to generate UMLs through various means (simple languages, etc).

## GRADING

This is expected to be a predesign exercise. Your grade will be based on your submitting a design that shows that you put some thought into the problem. We may elect to give you feedback, but your grade will not be affected.

## TURNING IN YOUR PREDESIGN

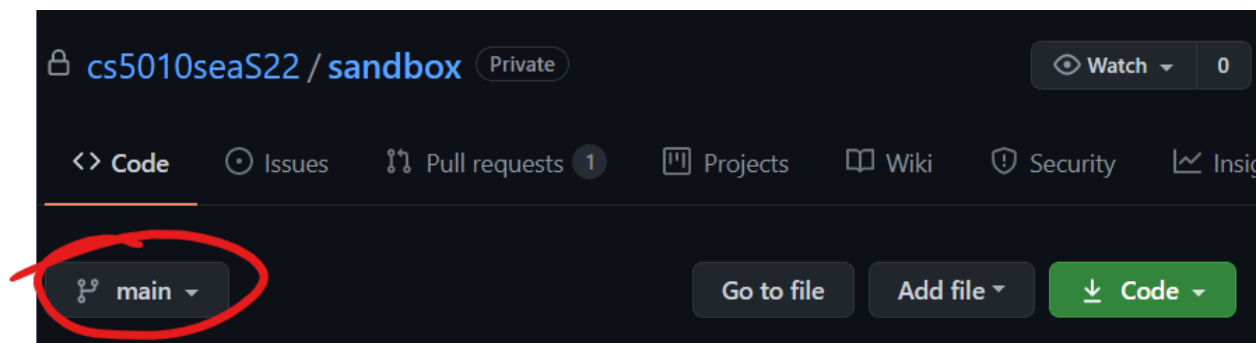
In order to submit your predesign by the designated due date, please submit to your github repo. The easiest way to commit a single image (or a few, if you need to submit more than one) is to use the github website directly. Below are instructions on how to submit via the website.

You may use the git client, but the goal is that you create a new branch for these UMLs and please do not submit any code or anything else. Just the UMLs.

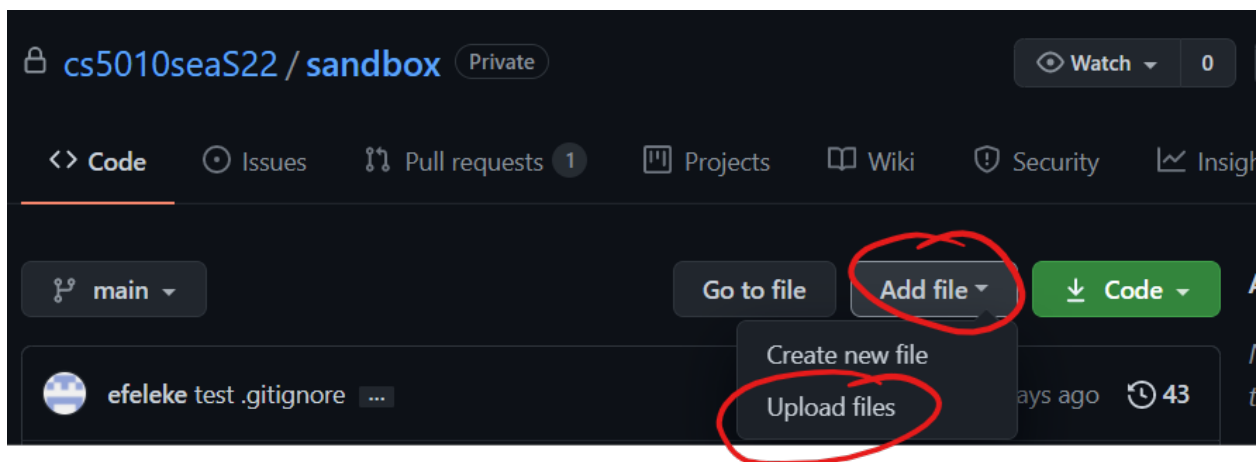
## HOW-TO SUBMIT ON GITHUB

Open your repo on github. For this example, we'll be using the sandbox repo, but you **must** submit in your own repo.

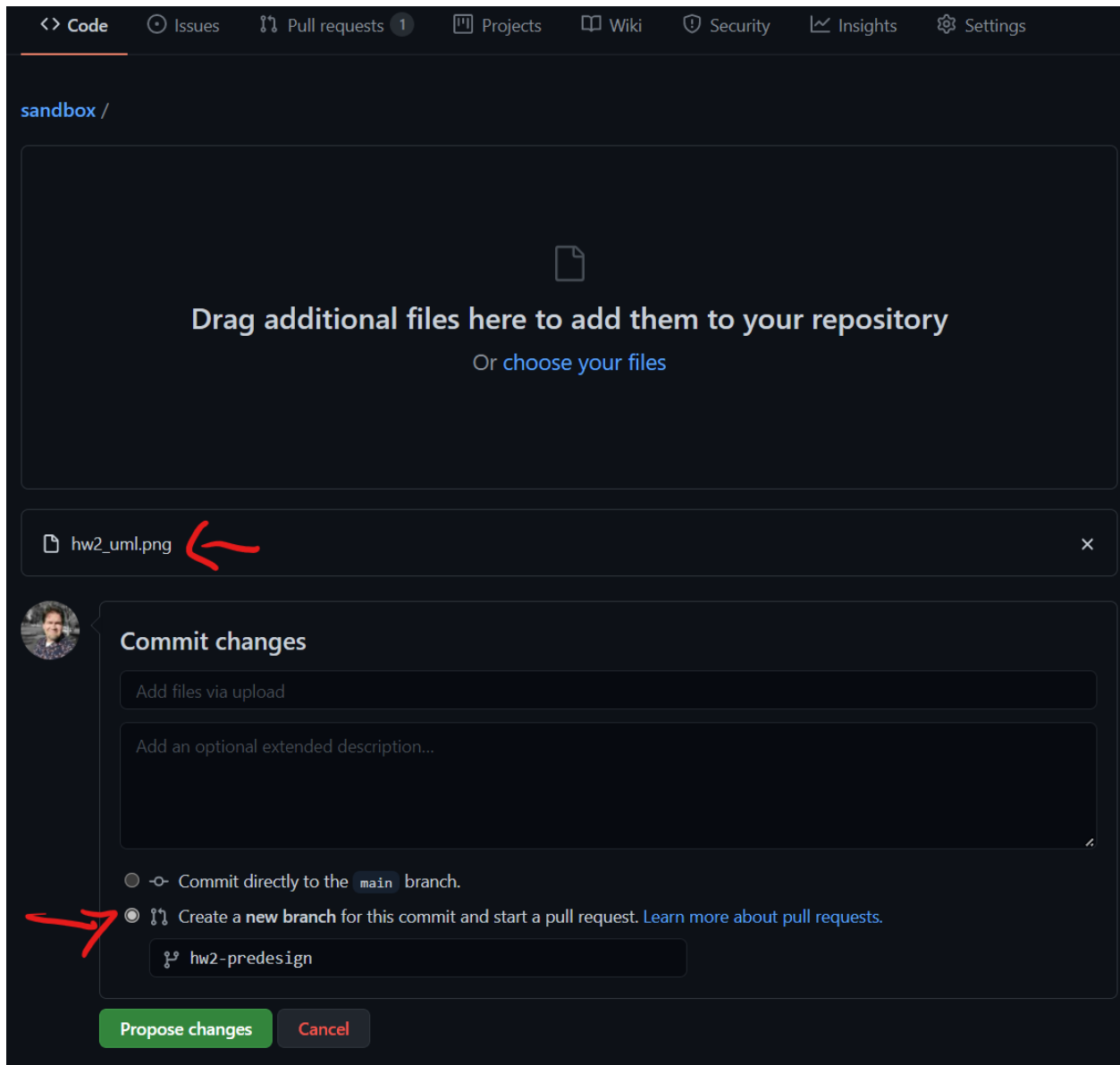
1. Make sure you are looking at your main branch:



2. Click the "Add File" button that you see on the right side and then "Upload File"



3. Drag your UML file(s) into the web client and allow them to upload



In the above example, you'll see that my uml (hw2\_uuml.png) has been added.

4. Next, make sure you choose the option to "Create a new branch for this commit and start a pull request".
5. Name the branch in the following format: <hw#>-predesign

See the example above where I choose hw2-predesign as the branch name.

6. Lastly, click "Propose changes".

This will start the creation of a pull request.

7. Give it a title (example: "HW # Predesign") Assign it to the TAs like you do for any other homework submission and then click "Create pull request"

# Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare a](#)



base: main ▾



compare: hw2-predesign ▾

✓ **Able to merge.** These branches can be automat



HW 2 Predesign

Write

Preview

H B I

Leave a comment

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



Create pull request



At this point, your UML predesign is been submitted and you'll be able to complete the pull request once approved.