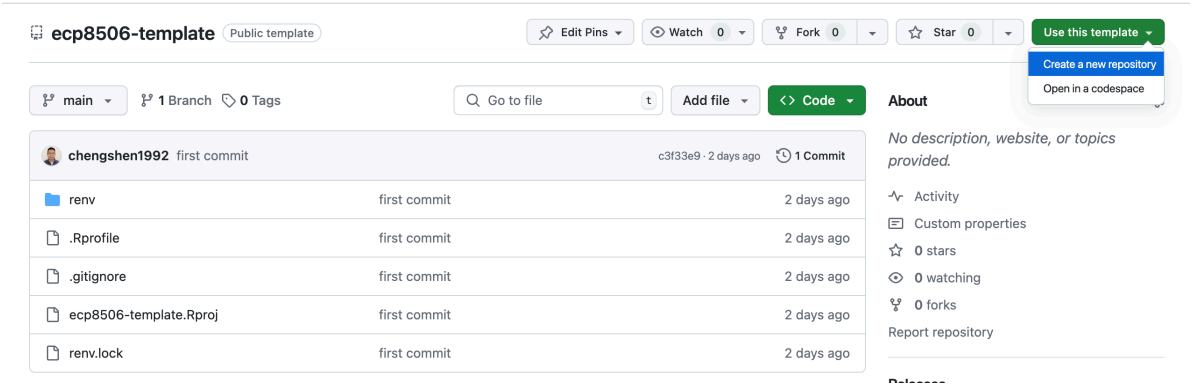
Homework 1

1 Objectives:

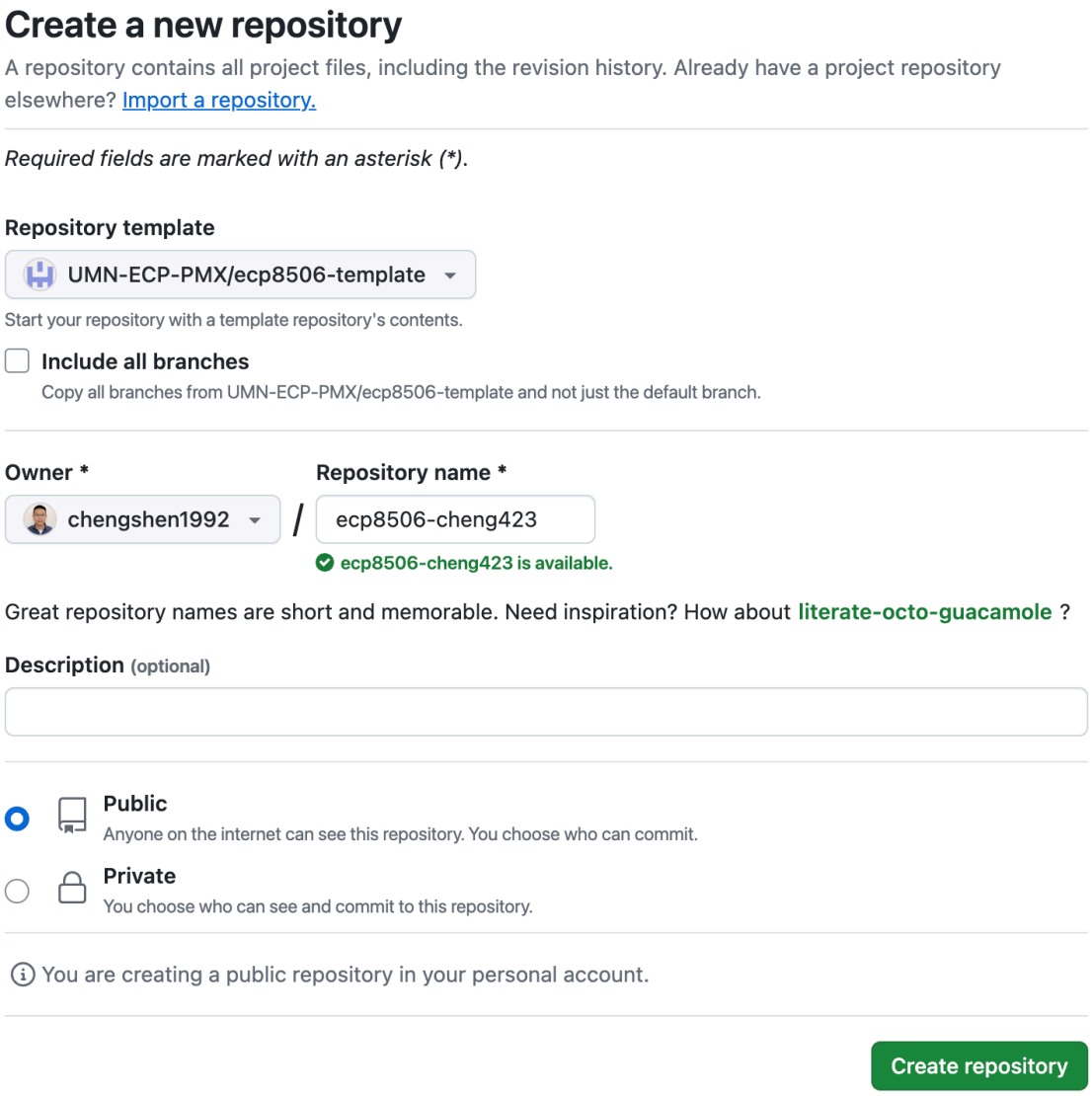
- Create a new github repository under your github account using ecp8506-template as a template repository.
- Perform `git clone` to clone the repository to your local MSI disk.
- Create a new file in your local repository, then perform `git add`, `git commit` and `git push` to add the new file to your remote github repository.

1.1 Create a new github repository

- Navigate your browser to ecp8506-template github repository. Click **Use this template** on the top right corner.



- Name the repository as `ecp8506-your x500`, make sure the owner is your github account, then click the button to create repository.



1.2 Clone the repository to local

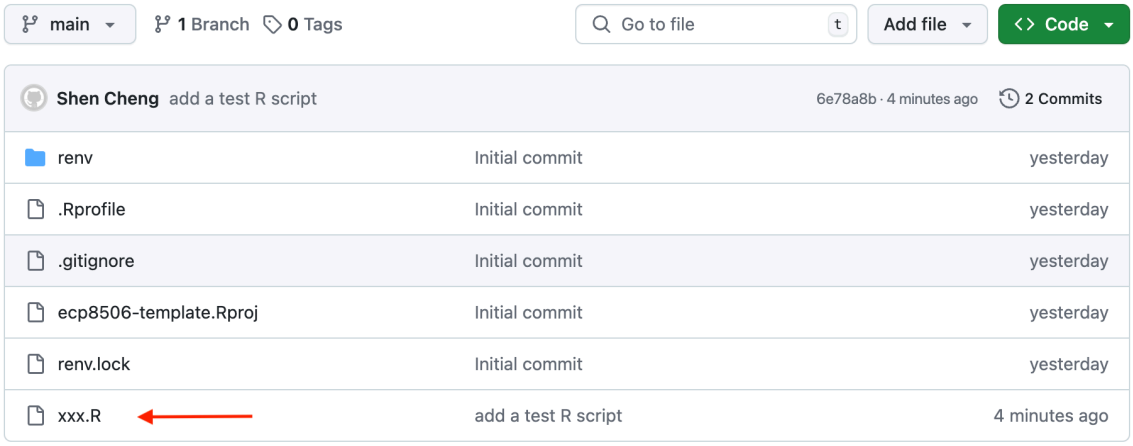
- Start a new Rstudio Server session on MSI.
- Use RStudio IDE functionality to start a project using Version Control or in terminal, perform `git clone` to clone the repository to local MSI disk.
- Open the R project file (`.rproj`) file in the local repository.
- Run `renv::restore()` to restore the installation of all the R packages. This step might take quite a few minutes to complete.

1.3 Create a new file in the local reposiotry and add it to the remote repository

- Create a new R script in the local repository, names it as you like, for example `xxx.R`
- Use RStudio IDE functionality to add, commit and push the new file to the remote repository.
- If you are using terminal:
  - In terminal, run `git add xxx.R`.
  - In terminal, run `git commit -m "add a test R script"`. Here, `-m` means leave a message with the text inside the " " as the message contents.
  - In terminal, run `git push`. If you see the output looks like this, your have successfully added the new file in your remote github repository.

```
cheng423@acn29 [/panfs/jay/groups/37/ecp8506/cheng423/ecp8506-cheng423] % git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 128 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 280 bytes | 280.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:chengshen1992/ecp8506-cheng423.git
   05238fe..6e78a8b  main -> main
```

* Take a screenshot of your remote github repository and uploaded it to Canvas.



1.4 Bouns

Create a a scratch repository with and initialize `renv` package to have a reproducible environment with all of your favorite packages.