Code server

Code server is a fork of VS code designed for remote coding - point a browser to your VM by typing NETID-vm.cse.uconn.edu in the address bar, and you'll see something that looks a lot like VS Code:

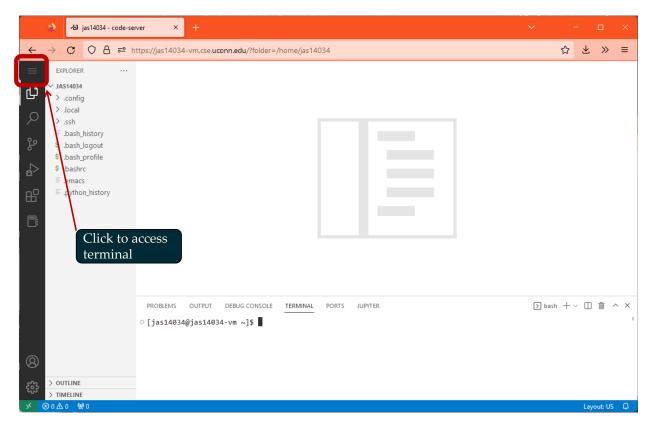


Figure 1: Go to NETID-vm.cse.uconn.edu (replace NETID with your netID) and you should see something like this. The EXPLORER tab on the lft has a list of files and directories, any open files will appear in the top area, and you can open a terminal from the hamburger menu in the top left.

We'll start by setting up a nice directory structure, then we'll create and run our first file.

Setup - Initial Directories

We'll want to open up a terminal to create files and folders. Click the hamburger menu in the top left (the three stacked lines), then select **Terminal** > **New Terminal**, and a new terminal should open.

Next, we'll create some folders to keep our code organized. The EXPLORER sidebar on the left shows our present working directory (pwd), which should be called netID (jas14034 in the example shown). You can check the pwd of your terminal with the command pwd:

```
[jas14034@jas14034-vm ~]$ pwd
/home/jas14034
```

Create a directory for this course with mkdir, then move into it with the change directory command cd:

```
[jas14034@jas14034-vm ~]$ mkdir cse2050
[jas14034@jas14034-vm ~]$ cd cse2050/
[jas14034@jas14034-vm cse2050]$
```

Next, make a few directories for your programming assignments. The example below creates directories for 11 labs and 11 homeworks:

```
[jas14034@jas14034-vm cse2050]$ mkdir lab{1..11} # make lab1, lab2, .., lab11 folders
[jas14034@jas14034-vm cse2050]$ ls # list directories
lab1 lab10 lab11 lab2 lab3 lab4 lab5 lab6 lab7 lab8 lab9
[jas14034@jas14034-vm cse2050]$ mkdir hw{1..11} # make hw1, hw2, .., hw11 folders
```

Now, move into the lab1 directory using the cd command, then create a file to edit using touch.

```
[jas14034@jas14034-vm cse2050]$ cd lab1
[jas14034@jas14034-vm lab1]$ touch hello.py
[jas14034@jas14034-vm lab1]$ ls
hello.py
```

At this point, my file hierarchy looks something like the following tree (you can see a graphical representation of this in the EXPLORER tab on VS Code):

Install Python Extension

Next, click on the *Extensions* icon on the left-hand sidebar in code-server and install the extension python by ms-python.

Create and run a file

You can start edititing hello.py in a few ways. Clicking the file in the EXPLORER tab should open it for editting on the top half of your screen. If you'd rather work entirely in terminal, you have access to vim and emacs in this VM.

When you're ready to run your code, you can do so in the terminal with python3 file.py, or just click the triangle in the top right (see figure below).

Add a print statement to your code and run it now. However you run it, you should see the output in a terminal.

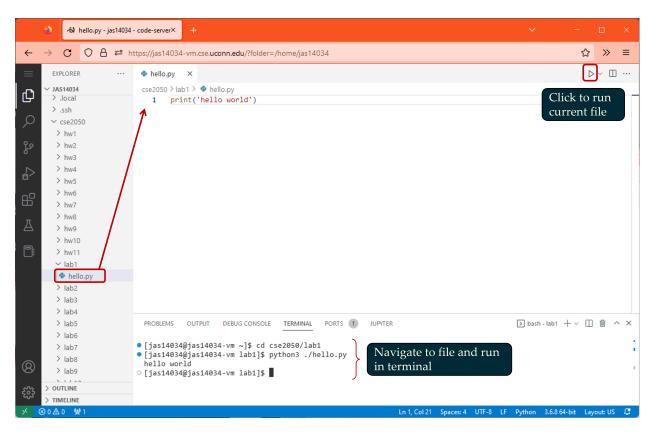


Figure 2: Our VM after creating the appropriate files for this lab