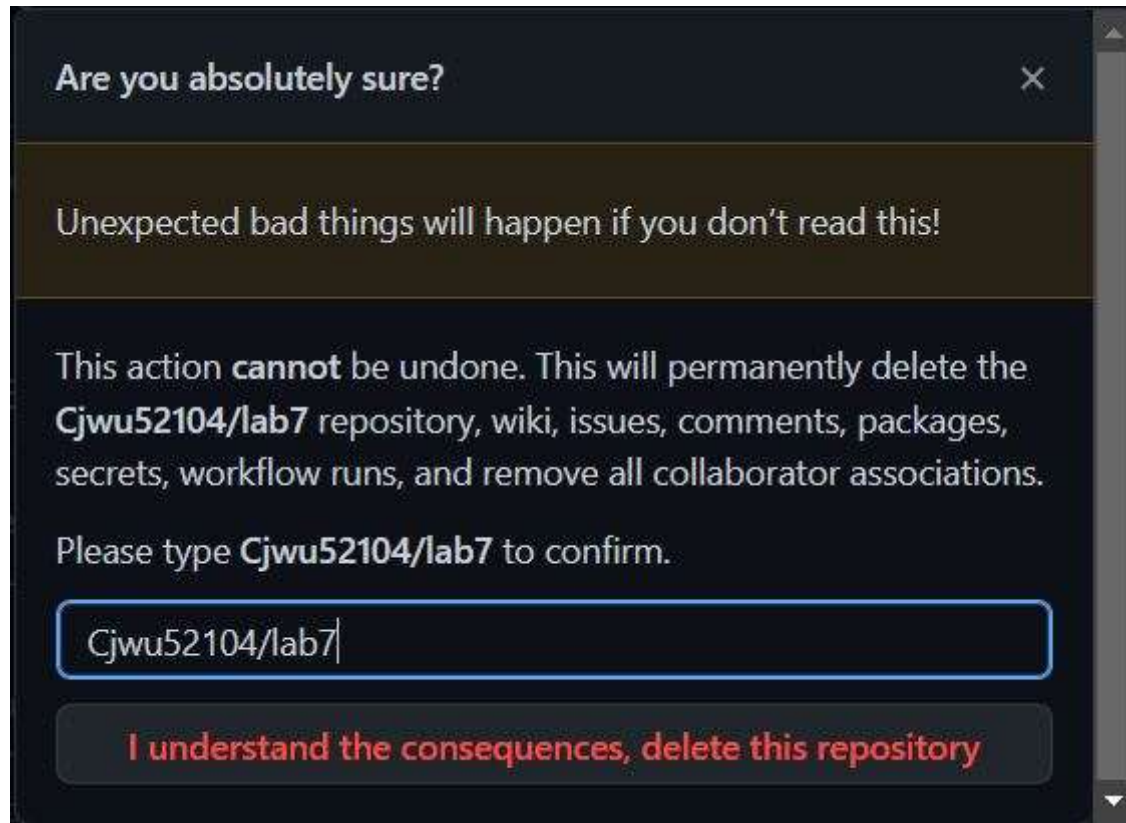


cse15l-lab-reports

Lab Report 4 - Connor Wu

1.) Delete fork




Cjwu52104/lab7




2.) Fork repo

<https://github.com/ucsd-cse15l-w23/lab7>


Fork > Create Fork

 **Cjwu52104 / lab7** Public forked from ucsc-cse15l-w23/lab7 Pin

[Code](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

 **main**  **1 branch**  **0 tags** Go to file Add file Code

This branch is up to date with ucsc-cse15l-w23/lab7:main. Contribute Sync fork

 **broiyn** rename test file 4a2b721 5 days ago 8 commits

File	Commit	Time
lib	add .jar lib	5 days ago
ListExamples.java	Merge file	5 days ago
TestListExamples.java	rename test file	5 days ago

Help people interested in this repository understand your project by adding a README. Add a README

3.) Login with SSH

```
wucon@LAPTOP-QNUER58L MINGW64 ~
$ ssh cs15lwi23aox@ieng6.ucsd.edu
Last login: Wed Feb 22 15:40:15 2023 from 100.81.35.71
quota: Cannot resolve mountpoint path /home/linux/staff/.snapshot/daily.2023-01-31_0010: Stale file handle
quota: Cannot resolve mountpoint path /home/linux/staff/.snapshot/daily.2023-02-01_0010: Stale file handle
quota: Cannot resolve mountpoint path /home/linux/staff/.snapshot/daily.2023-02-02_0010: Stale file handle
quota: Cannot resolve mountpoint path /home/linux/staff/.snapshot/hourly.2023-02-11_2001: Stale file handle
quota: Cannot resolve mountpoint path /home/linux/staff/.snapshot/daily.2023-02-03_0010: Stale file handle
quota: Cannot resolve mountpoint path /home/linux/staff/.snapshot/daily.2023-02-04_0010: Stale file handle
quota: Cannot resolve mountpoint path /home/linux/staff/.snapshot/daily.2023-02-05_0010: Stale file handle
quota: Cannot resolve mountpoint path /home/linux/staff/.snapshot/daily.2023-02-06_0010: Stale file handle
quota: Cannot resolve mountpoint path /home/linux/staff/.snapshot/daily.2023-02-08_0010: Stale file handle
quota: Cannot resolve mountpoint path /home/linux/staff/.snapshot/hourly.2023-02-12_0801: Stale file handle
quota: Cannot resolve mountpoint path /home/linux/staff/.snapshot/daily.2023-02-07_0010: Stale file handle
quota: Cannot resolve mountpoint path /home/linux/staff/.snapshot/hourly.2023-02-11_1601: Stale file handle
quota: Cannot resolve mountpoint path /home/linux/staff/.snapshot/weekly.2023-01-15_0015: Stale file handle
quota: Cannot resolve mountpoint path /home/linux/staff/.snapshot/hourly.2023-02-10_1201: Stale file handle
quota: Cannot resolve mountpoint path /home/linux/staff/.snapshot/hourly.2023-02-10_1601: Stale file handle
Hello cs15lwi23aox, you are currently logged into ieng6-201.ucsd.edu

You are using 0% CPU on this system

Cluster Status
Hostname    Time    #Users  Load  Averages
ieng6-201   15:40:01  72  1.58, 1.48, 1.46
ieng6-202   15:40:01  55  2.67, 1.91, 1.44
ieng6-203   15:40:01  64  1.65, 1.45, 1.57

*** Network Delay Issue ***
2023-01-24 - 2023-01-31 11:30

The security team seem to have identified
the root cause of the network issues in
one of the network firewall modules and
remedied the issue. If you encounter any
ongoign issues please report them to the
service desk.
```

Keystrokes: <ctrl>+r ssh <enter>

4.) Clone

```
[cs15lwi23aox@ieng6-201]:~:141$ git clone git@github.com:Cjwu52104/lab7.git
Cloning into 'lab7'...
Warning: Permanently added the RSA host key for IP address '140.82.114.3' to the list of known hosts.
remote: Enumerating objects: 32, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 32 (delta 1), reused 2 (delta 1), pack-reused 27
Receiving objects: 100% (32/32), 371.75 KiB | 1.77 MiB/s, done.
Resolving deltas: 100% (11/11), done.
[cs15lwi23aox@ieng6-201]:~:142$ |
```

Keystrokes: <ctrl>+r cl <enter>

5.) Compile Tests + Run

```
[cs15lwi23aox@ieng6-201]:lab7:147$ javac -cp .:lib/hamcrest-core-1.3.jar:lib/junit-4.13.2.jar *.java
[cs15lwi23aox@ieng6-201]:lab7:148$ java -cp .:lib/hamcrest-core-1.3.jar:lib/junit-4.13.2.jar org.junit.runner.JUnitCore TestListExamples
JUnit version 4.13.2
..E
Time: 0.515
There was 1 failure:
1) testMerge2(TestListExamples)
org.junit.runners.model.TestTimedOutException: test timed out after 500 milliseconds
    at ListExamples.merge(ListExamples.java:43)
    at TestListExamples.testMerge2(TestListExamples.java:19)

FAILURES!!!
Tests run: 2, Failures: 1
```

Keystrokes: cd l<tab>, <ctrl>+r javac <enter>, <ctrl>+r ru <enter>

6.) Fix Error

```
        index1 += 1;
    }
    else {
        result.add(list2.get(index2));
        index2 += 1;
    }
}
while(index1 < list1.size()) {
    result.add(list1.get(index1));
    index1 += 1;
}
while(index2 < list2.size()) {
    result.add(list2.get(index2));
    index2 += 1;
}
return result;
}
}
```

Keystrokes: nano L<tab><enter> then <ctrl>+w return result <enter>, <ctrl>+w <enter><up><up>
<right(8x)><backspace>2, <ctrl>+o <enter> <ctrl>+x

7.) Rerun tests

```
[cs15lwi23aox@ieng6-201]:lab7:144$ javac -cp ./lib/hamcrest-core-1.3.jar:lib/junit-4.13.2.jar *.java
[cs15lwi23aox@ieng6-201]:lab7:145$ java -cp ./lib/hamcrest-core-1.3.jar:lib/junit-4.13.2.jar org.junit.runner.JUnit
Core TestListExamples
JUnit version 4.13.2
..
Time: 0.017

OK (2 tests)

[cs15lwi23aox@ieng6-201]:lab7:146$ |
```

Keystrokes: <ctrl>+r javac <enter> <ctrl>+r ru <enter>

8.) Commit changes


```
[cs15lwi23aox@ieng6-201]:lab7:172$ git add .
[cs15lwi23aox@ieng6-201]:lab7:173$ git commit -m "fixed bug"
[main c549edc] fixed bug
Committer: Connor J Wu <cs15lwi23aox@ieng6-201.ucsd.edu>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
```

```
git config --global --edit
```

After doing this, you may fix the identity used for this commit with:

```
git commit --amend --reset-author
```

```
1 file changed, 1 insertion(+), 1 deletion(-)
[cs15lwi23aox@ieng6-201]:lab7:174$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 354 bytes | 177.00 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:Cjwu52104/lab7.git
4a2b721..c549edc main -> main
[cs15lwi23aox@ieng6-201]:lab7:175$ |
```

Keystrokes: `git add .` <enter>, `git commit -m "fixed bug"`, `git push`

9.) Delete repo on ieng6

```
[cs15lwi23aox@ieng6-201]:lab7:160$ cd ..
[cs15lwi23aox@ieng6-201]:~:161$ rm -rf lab7/
[cs15lwi23aox@ieng6-201]:~:162$ ls
perl5 skill-demo1-data skill-demo1-server test wavelet
[cs15lwi23aox@ieng6-201]:~:163$ |
```

Keystrokes: `cd ..`, `rm -rf lab7` <enter>, `ls`

Shortcut References

`<ctrl>+r` is used to search previous commands, meaning that once you type a command out the first time, you can search for it with a few characters the second time and simply press enter to save time.

`<tab>` autofills the command/word you're typing if it's easily recognized by bash. For example, I did `nano L<tab> <enter>` in step 6 because there was only one file that started with L, so pressing tab completed the name of the file, `ListExamples.java`.

`<ctrl> + w` is a shortcut that allows you to search for string patterns while editing in nano. This allowed me to jump to the spot in the file containing the error, rather than pressing the down arrow numerous times to get there.

`<ctrl> + o` and `<ctrl> + x` save and exit a file (respectively) after editing it in nano. This makes it easy to edit files from the command lines, and to switch between editing and running commands, or perhaps another file.