Lab Report

ECPE 170 – Computer Systems and Networks – Fall 2021

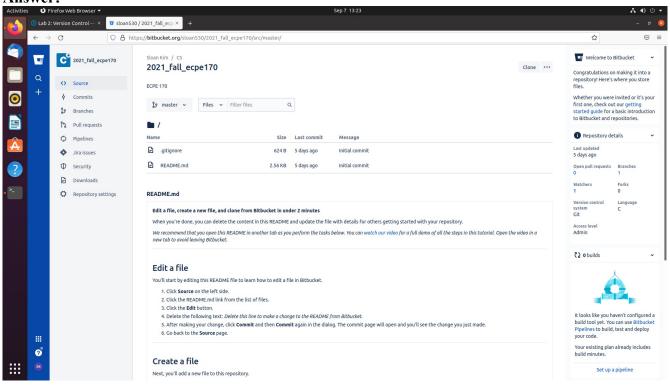
Name: Sloan Kim

Lab Topic: Version Control (Lab #: 2)

Question #1:

Take a Screenshot (using the Ubuntu Screenshot tool) showing what the BitBucket source view looks like at this point.

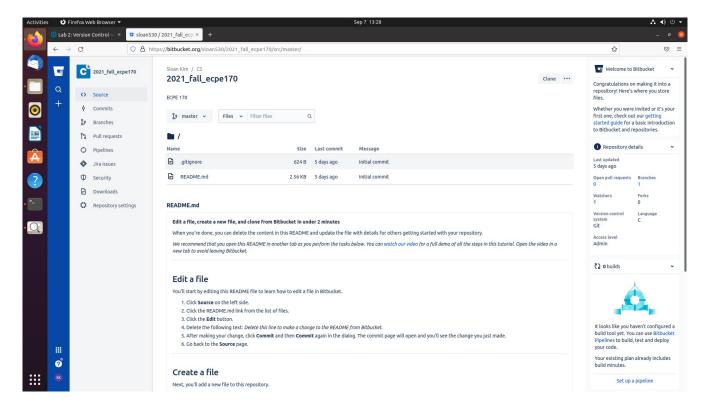
Answer:



Ouestion #2:

Take a Screenshot (using the Ubuntu Screenshot tool) showing what the BitBucket source view looks like at this point.

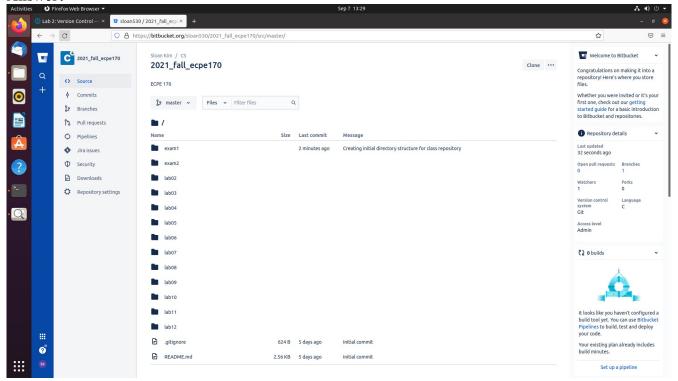
Answer:



Question #3:

Take a Screenshot showing what the BitBucket source view looks like at this point.

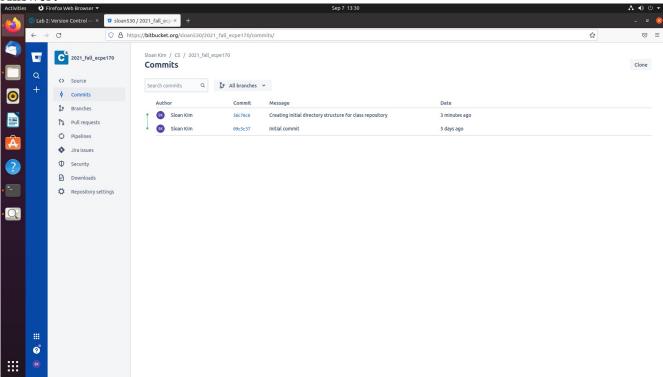
Answer:



Question #4:

Take a Screenshot showing what the BitBucket version history looks like at this point (under the Commits tab)

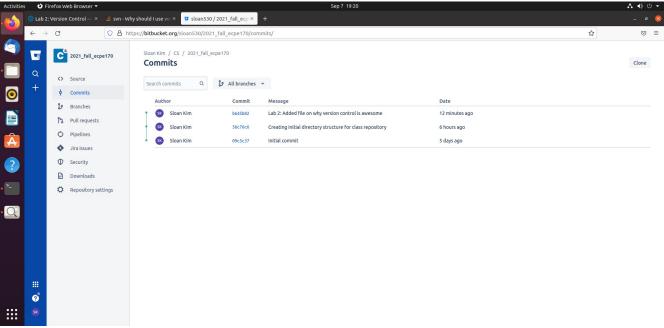
Answer:



Question #5:

Take a Screenshot showing what the BitBucket version history looks like at this point (under the Commits tab)





Question #6:

What does the line starting in --- represent?

Answer:

It assigns symbol - to diff input source which are changes from a/lab02/reasons_to_use_vcs.txt.

Ouestion #7:

What does the line starting in +++ represent?

Answer:

It assigns symbol + to diff input source which are changes from b/lab02/reasons_to_use_vcs.txt.

Ouestion #8:

What do the lines starting in + represent?

Answer:

The line after + is from b/lab02/reasons to use vcs.txt.

Ouestion #9:

Can you guess what a line starting in - would represent? (Depending on the edits you made, you might have a few of these lines too)

Answer:

The line after – is from a/lab02/reasons to use vcs.txt.

Question #10:

What benefits would a large team of developers get from version control? Identify at least two.

Answer:

It is easier to see who wrote the code for certain part.

It allows to branch and merge the differences created by multiple developers.

Question #11:

What benefits would a single developer (working alone) get from version control? Identify at least two.

Answer:

It allows you to experiment with codes.

It allows you to revert the mistakes and broken code.

Question #12:

What kind of files should you put in version control?

Answer:

Program source code, verilog /VHDL, matlab, html, server configuration files

Ouestion #13:

What kind of files should you **not** put in version control? Why?

Answer:

Binary data, executables, anything auto generated by compiler, text editor temp files.

You cannot see the changes made in the binary data. Auto-generated files create noise that makes it harder to focus on the real changes.

Question #14:

What is the difference between an add, commit and a push?

Answer:

add adds your modified files to the queue to be committed later.

commit commits the file that has been added and creates a new revision with a log. You can do both add and commit by git commit -a.

push pushes your changes to the remote repository.

Question #15:

Why is it better to use git my instead of plain-old regular my to copy a file within the repository? **Answer:**

Because git mv preserve version history meaning you can see the changes and history of the file.