

Lab Report

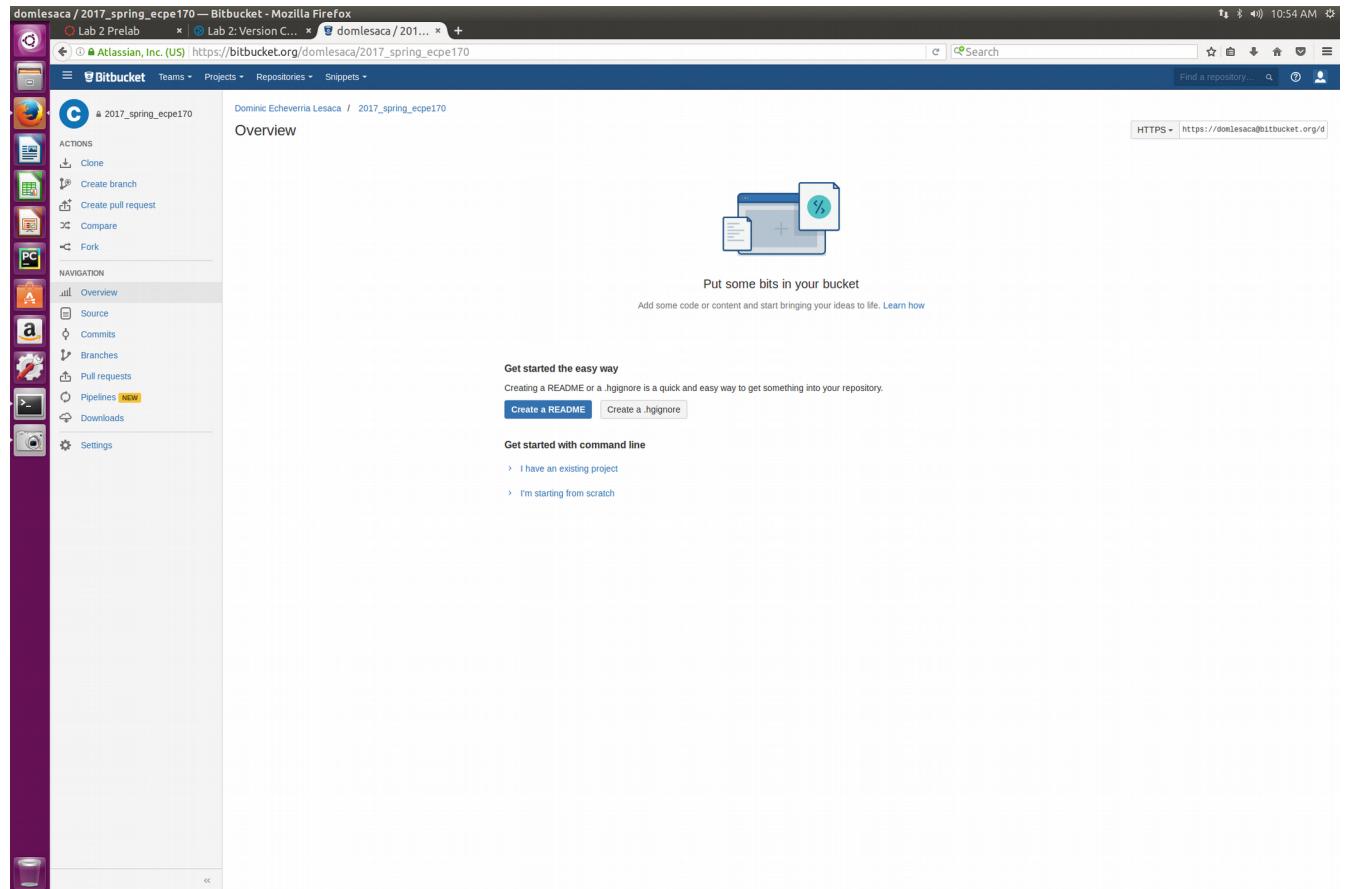
ECPE 170 – Computer Systems and Networks – Spring 2016

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Lab Topic: Version Control (Lab #: 2)

Question #1:

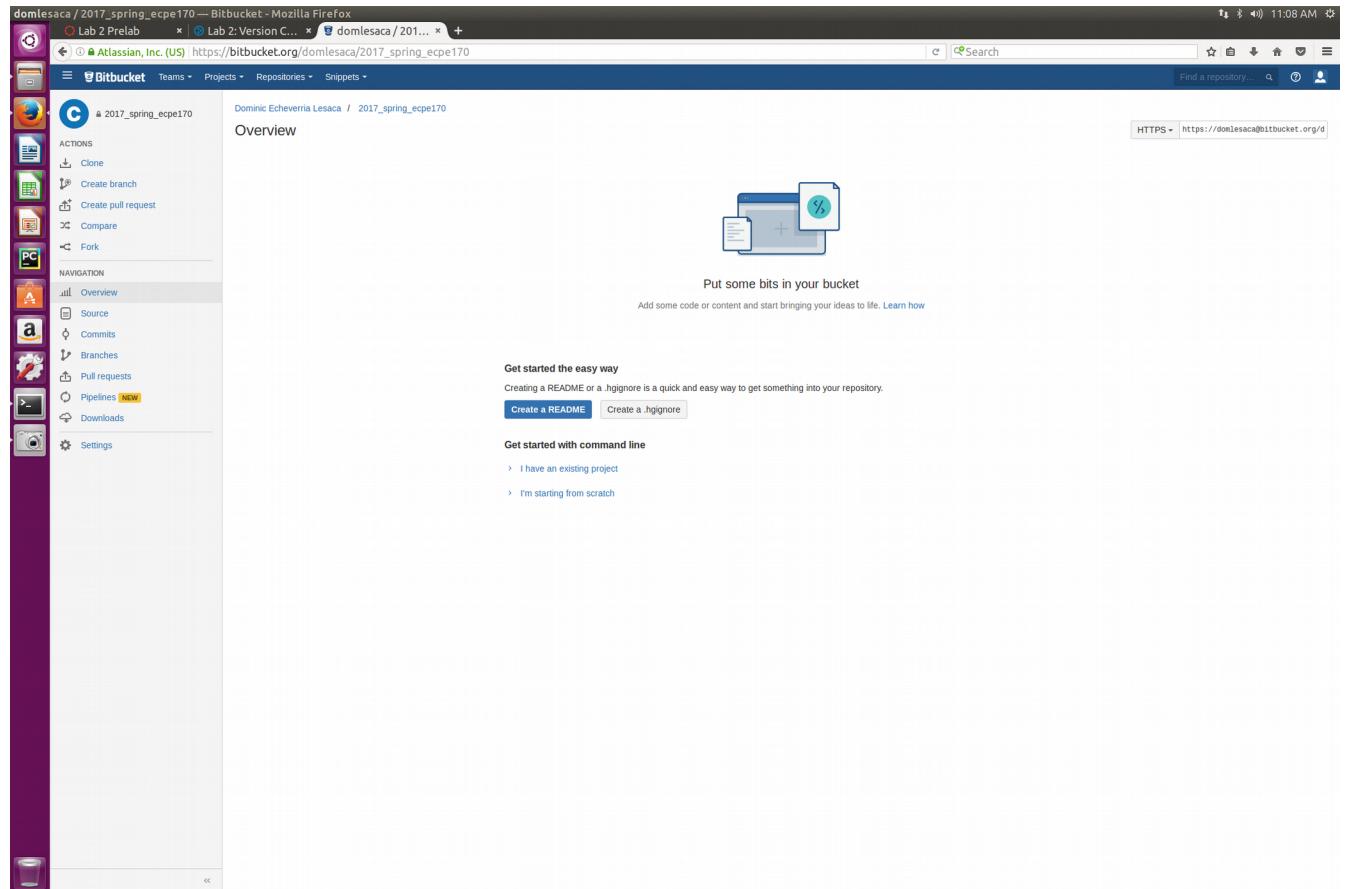
Take a Screenshot (using the Ubuntu Screenshot tool) showing what the BitBucket source view looks like at this poi

Answer:

Question #2:

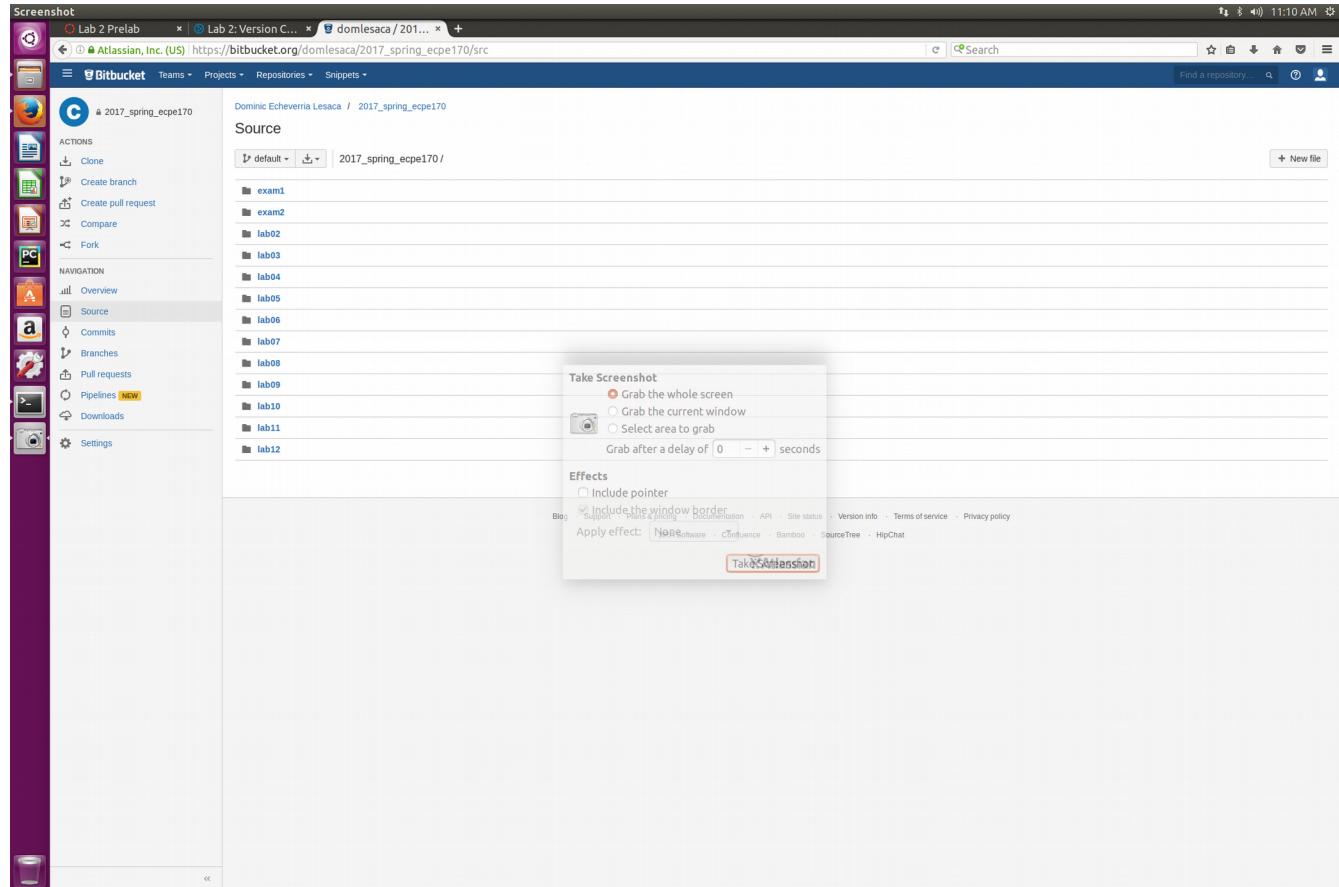
Take a Screenshot (using the Ubuntu Screenshot tool) showing what the BitBucket source view looks like at this point.

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:

The screenshot shows a Firefox browser window with the BitBucket interface. The URL in the address bar is https://bitbucket.org/domlesaca/2017_spring_ecpe170/commits/all. The main content area displays the 'Commits' page for the repository '2017_spring_ecpe170'. A single commit is listed:

Author	Commit	Message
Dominic Echev...	e56a109	Creating initial directory structure for class repository

The BitBucket sidebar on the left includes sections for ACTIONS (Clone, Create branch, Create pull request, Compare, Fork), NAVIGATION (Overview, Source, Commits, Branches, Pull requests, Pipelines, Downloads, Settings), and various icons for file types like Java, XML, and ZIP.

Question #5:

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

Answer:

```

remote: adding file changes
remote: added 1 changesets with 13 changes to 13 files
[1]+ Done                  gedit .hg/hgrc
dlesaca@ubuntu:~/bitbucket/2017_spring_ecpe170/lab02$ hg add reasons_to_use_vcs.txt
[1]+ Done                  gedit reasons_to_use_vcs.txt
dlesaca@ubuntu:~/bitbucket/2017_spring_ecpe170/lab02$ hg status
A lab02/reasons_to_use_vcs.txt
dlesaca@ubuntu:~/bitbucket/2017_spring_ecpe170/lab02$ hg commit -m"Lab 2: Added file on why version control is awesome"
dlesaca@ubuntu:~/bitbucket/2017_spring_ecpe170/lab02$ hg push
pushing to https://domlesaca@bitbucket.org/domlesaca/2017_spring_ecpe170
http authorization required for https://bitbucket.org/domlesaca/2017_spring_ecpe170
realm: Bitbucket.org HTTP
user: domlesaca
password:
searching for changes
remote: adding changesets
remote: adding manifests
remote: adding file changes
remote: added 1 changesets with 1 changes to 1 files
dlesaca@ubuntu:~/bitbucket/2017_spring_ecpe170/lab02$ 

```

"2017_spring_ecpe170" selected (containing 13 items)

Question #6:

What does the line starting in --- represent?

Answer:

This line represents the last version of the file that was pushed to bitbucket

Question #7:

What does the line starting in +++ represent?

Answer:

This line represents the new version of the file that has been saved locally

Question #8:

What does the line starting in + represent?

Answer:

This line indicates the line where you have made edits to the file

Question #9:

What does the line starting in - represent?

Answer:

This line represents the old version of a line in the file before edits were made

Question #10:

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

Answer:

- 1) Multiple people can modify the same code at once that everyone has easy access to
- 2) You can track who made what modifications when to see how everyone is doing on a project

Question #11:

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

Answer:

- 1) Revert to an older version of your program when you make a mistake in your code
- 2) Test out new features without messing with already working code

Question #12:

What kind of files should you put in version control

Answer:

you should put in all files that are required for your program to run. This includes code files, text files, csv files, etc.

Question #13:

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

Answer:

You should not include any generated files as they clutter up the history of changes to the repository. Also the generated files may differ based on operating system, making the system even more confusing as different generated files are pushed into the repository.

Question #14:

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

Answer:

add: adds your modified files in order to be committed later

commit: creates a revision in the log and saves to the local repository

push: saves your changes to the remote repository

Question #15:

Why is it better to use hg cp instead of regular cp to copy a file within the repository?

Answer:

hg copy is better as the copy file will have changes made to the original merged into it.