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COSC349 Assignment Report

What I have done to make 3 VMs interact:
I made 3 VMs, two web servers and one database server. The first web server interacts with the database server by inserting data into it, the database server interacts with the second web server but outputting the data. At first, I had no idea what I was going to do with the third VM, but after thinking out inserting data, I thought it was quite obvious that there needed to be a way to output data as well. After thinking things through, I thought of making a note-taking type of application. This application allows many people to insert data collectively and can be viewed all in one page.

How long it takes to download:
First build: It takes about 14 minutes and 14 seconds to do the first build on my laptop when plugged in.
Subsequent builds: For subsequent builds, it takes about 3 minutes and 23 seconds to boot up after halting it.

The interaction required for boot up?:
There should not be any problems with booting it up, as all you need to do is "vagrant up." But I did come across this problem once when I started working on this assignment on my computer rather than my laptop. And that problem was that the UID was different, which did not allow me to boot up. And to fix that, I had to change the UID to another one.

Test data:
http://192.168.2.11 to insert data.
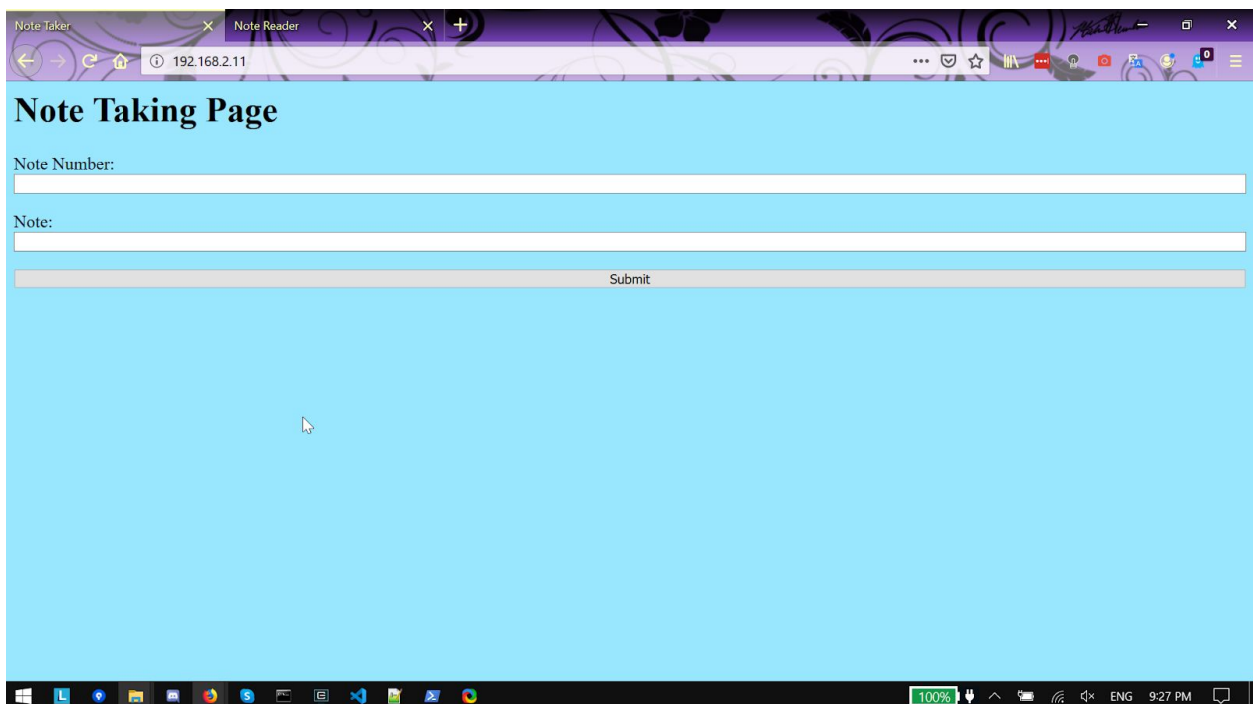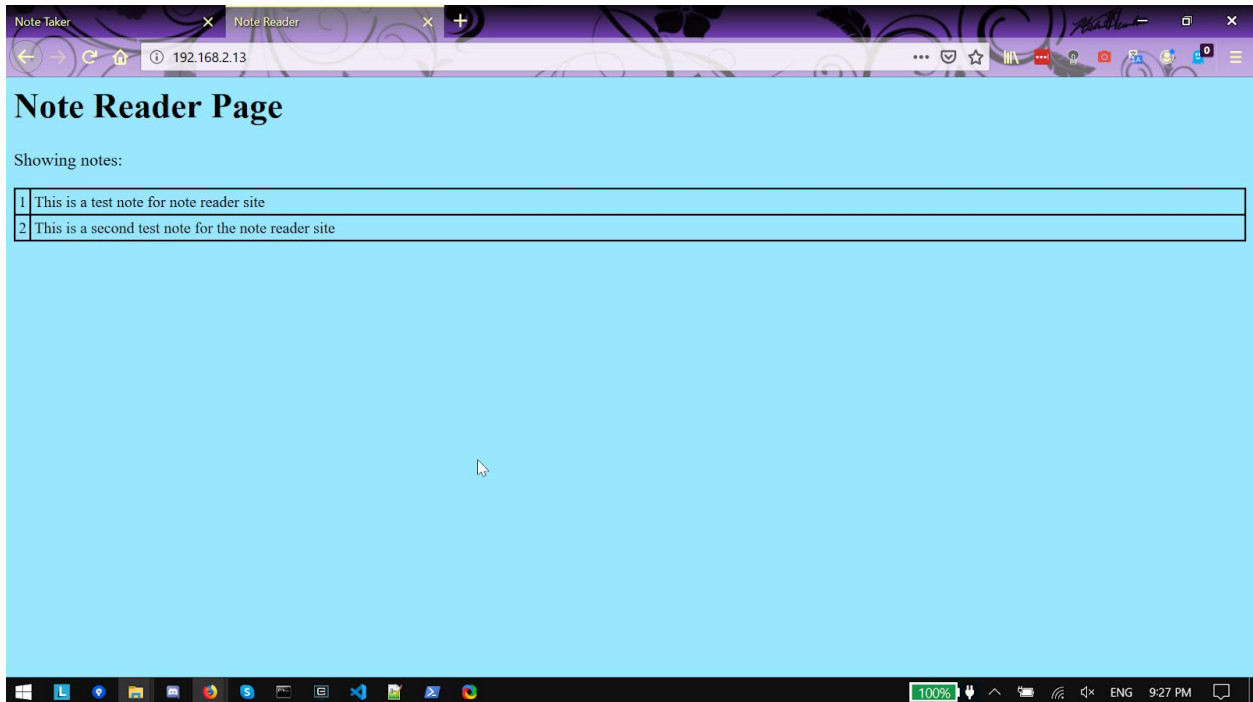http://192.168.2.13 to read output data.
There are two test data already in the database. To insert new data, you just need to put in a note number for ID, and the note itself. After doing that, you can press the submit button to insert into the database.

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How to use this application:

Whether you are listening to a lecturer or thinking of ideas, you can use my application to jot down notes. And when you want to revise the notes that were taken down, you can by viewing it all in one page.

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Useful types of modifications or extensions:

Possible modifications/improvements:

- The way that the page looks like.
- There is currently no way to delete notes that have been added in, so adding that would be nice.
- Having navigation at the top of the web pages would make it easier to navigate between pages.

Possible extensions:

- Making the users log in, this is so you can make the notes private or grouped, such as document sharing.
- Foreign language inputs for people that can only read other languages.
- Extra tools such as plugins for word.

Is my software development clear?

When I first started this assignment, I was making quite a lot of commits. But nearing the due date, I was rushing a little bit. So I wasn't using much of version control. There was this time that version control saved me. When I tried implementing a vagrant cloud, vagrant just would not work at all, so I was able to roll back to a previous version.