

Twitter Clone Document

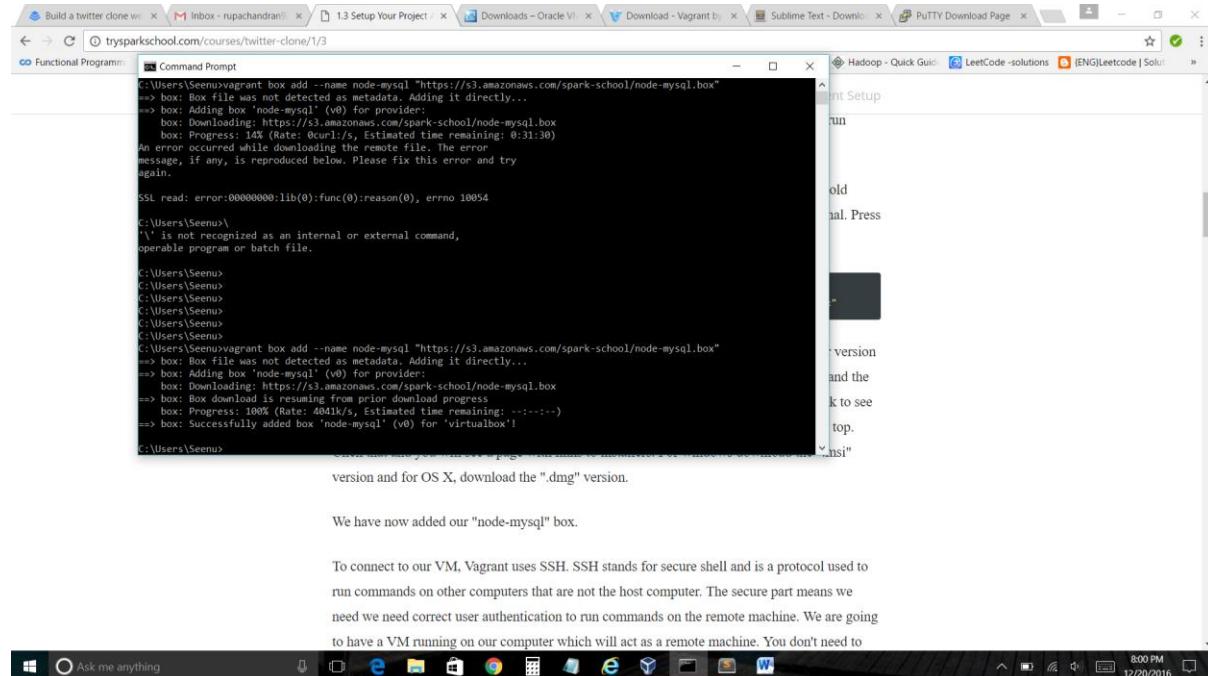
Vagrant commands to run in the terminal:

If you are in your project directory in your terminal, you can run "**vagrant halt**" to stop your VM. You can then run "**vagrant up**" again to restart it. "**vagrant status**" will show you the status of your VM. The VM will be called "default".

If that doesn't work, run "vagrant halt" then "**vagrant destroy**". This will remove the VM created and you can run "vagrant up" again to rebuild the VM.

Type this command in the terminal:

vagrant box add --name node-mysql <https://s3.amazonaws.com/spark-school/node-mysql.box>



The screenshot shows a Windows desktop environment with a terminal window open. The terminal window title is "Command Prompt" and the path is "C:\Users\Seenu\vagrant". The user has run the command "vagrant box add --name node-mysql https://s3.amazonaws.com/spark-school/node-mysql.box". The output shows the box being added directly from the provider, with progress messages indicating the download and creation of the box. The terminal window is part of a larger desktop interface with other windows like "Inbox - rupachandran", "1.3 Setup Your Project", "Downloads - Oracle V", "Download - Vagrant b", "Sublime Text - Download Page", and "PuTTY Download Page". The taskbar at the bottom shows various pinned icons and the date/time as 8:00 PM 12/20/2016.

```
C:\Users\Seenu\vagrant box add --name node-mysql "https://s3.amazonaws.com/spark-school/node-mysql.box"
--> box: Box file was not detected as metadata. Adding it directly...
--> box: Adding box 'node-mysql' (<0>) for provider:
box: Downloading: https://s3.amazonaws.com/spark-school/node-mysql.box
box: Progress: 14% (Rate: 0curl:/s, Estimated time remaining: 0:31:30)
An error occurred while downloading the remote file. The error message, if any, is reproduced below. Please fix this error and try again.

SSL read: error:00000000:lib(0):func(0):reason(0), errno 10054

C:\Users\Seenu\
`\' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Seenu>
C:\Users\Seenu>
C:\Users\Seenu>
C:\Users\Seenu>
C:\Users\Seenu>
C:\Users\Seenu>
C:\Users\Seenu\vagrant box add --name node-mysql "https://s3.amazonaws.com/spark-school/node-mysql.box"
--> box: Box file was not detected as metadata. Adding it directly...
--> box: Adding box 'node-mysql' (<0>) for provider:
box: Downloading: https://s3.amazonaws.com/spark-school/node-mysql.box
box: Progress: 100% (Rate: 4841k/s, Estimated time remaining: --::--)
--> box: Successfully added box 'node-mysql' (<0>) for 'virtualbox'!
```

Build a twitter clone with Node.js | Inbox - rupachandran9 | 1.3 Setup Your Project | Downloads - Oracle VM VirtualBox | Download - Vagrant by thenewboston | Sublime Text - Download Page | PuTTY Download Page

Spark School

Day 1: Getting Your Dev Environment Set Up

in, look back here as a reference.

Windows

Windows Security Alert

Windows Firewall has blocked some features of this app

Name: [vboxheadless.exe](#)
Publisher: Unknown
Path: C:\program files\oracle\virtualbox\vboxheadless.exe

Allow **vboxheadless.exe** to communicate on these networks:

Private networks, such as my home or work network.
 Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)

What are the risks of allowing an app through a firewall?

Allow access **Cancel**

Type that into powershell and press enter. This command takes some time. If your Vagrantfile is correct, vagrant should start your VM and work successfully.

```
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\Users\Seenu> cd C:\Users\Seenu\Desktop\TwitterClone
PS C:\Users\Seenu> vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
--> default: Matching MAC address for NAT networking...
--> default: Setting the name of the VM: TwitterClone_default_1482293165089_6107
--> default: Clearing any previously set network interfaces...
--> default: Preparing network interfaces based on configuration...
--> default: Adapter 0: nat
--> default: Adapter 1: nat
--> default: Forwarding ports...
--> default: 22 (guest) => 2222 (host) (adapter 1)
--> default: 22 (guest) => 2222 (host) (adapter 1)
--> default: Booting VM...
--> default: Waiting for machine to boot. This may take a few minutes...
--> default: SSH address: 127.0.0.1:2222
--> default: SSH username: vagrant
--> default: SSH auth method: private key
--> default: Machine booted and ready!
```



Ask me anything

Oracle VM VirtualBox Manager

New Settings Discard Start

Welcome to VirtualBox

The left part of this window is a list of all virtual machines. In order to create a new virtual machine, press F1. You can press the F1 key to get instant help.

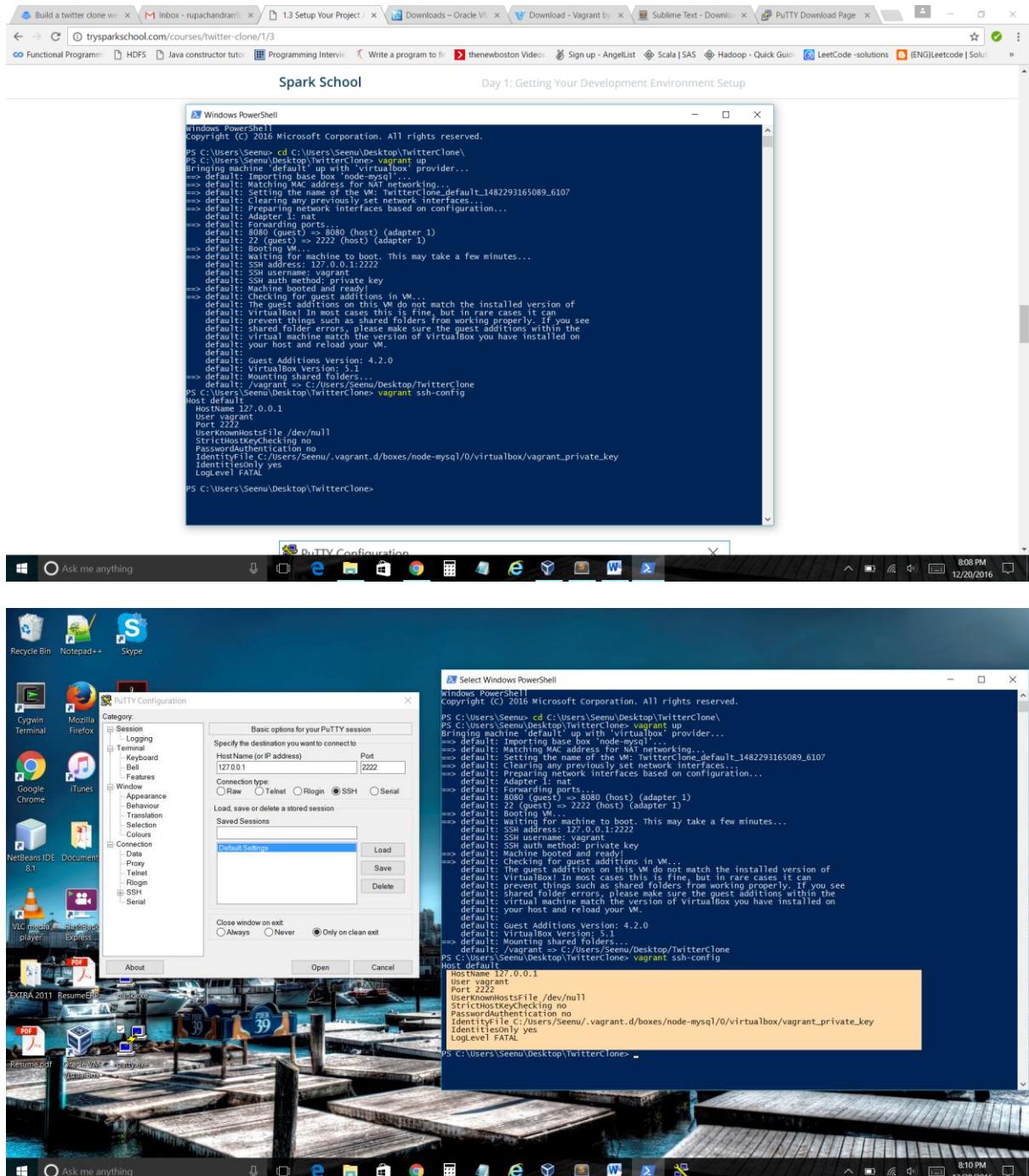
TwitterClone_default_1482293165089_6107 Running

Windows PowerShell

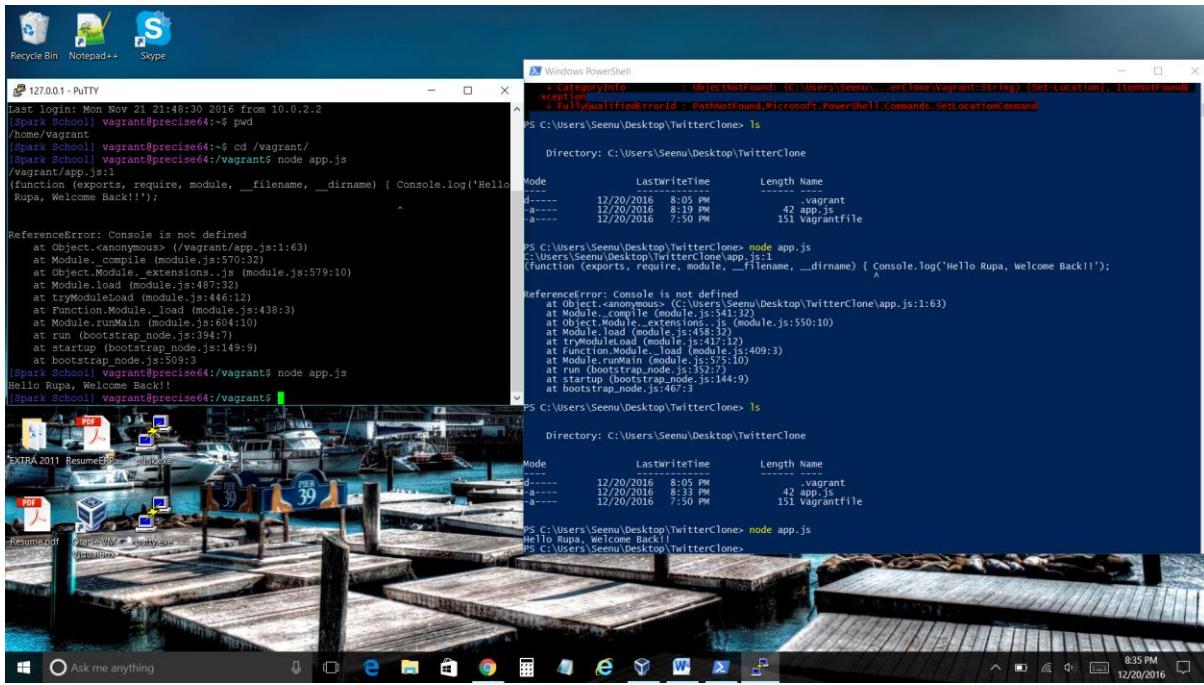
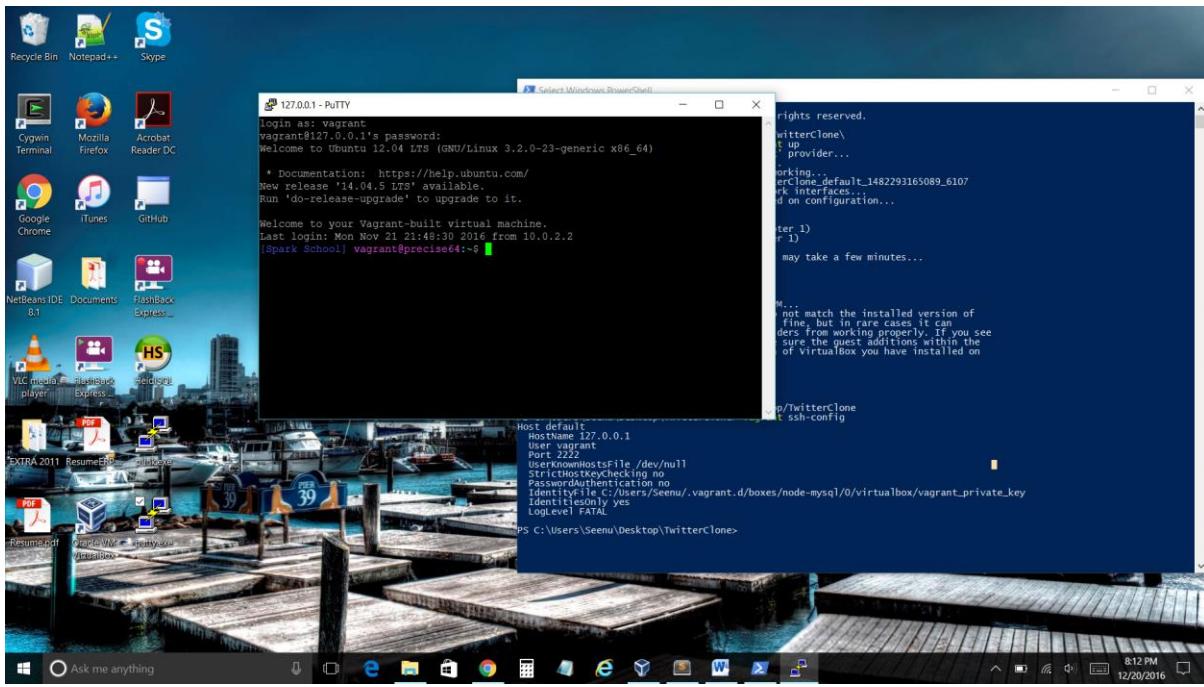
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

```
PS C:\Users\Seenu> cd C:\Users\Seenu\Desktop\TwitterClone
PS C:\Users\Seenu> vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
--> default: Importing base box 'node-mysql'...
--> default: Matching MAC address for NAT networking...
--> default: Setting the name of the VM: TwitterClone_default_1482293165089_6107
--> default: Clearing any previously set network interfaces...
--> default: Preparing network interfaces based on configuration...
--> default: Adapter 0: nat
--> default: Adapter 1: nat
--> default: Forwarding ports...
--> default: 22 (guest) => 2222 (host) (adapter 1)
--> default: 22 (guest) => 2222 (host) (adapter 1)
--> default: Booting VM...
--> default: Waiting for machine to boot. This may take a few minutes...
--> default: SSH address: 127.0.0.1:2222
--> default: SSH username: vagrant
--> default: SSH auth method: private key
--> default: Machine booted and ready!
--> default: Checking for guest additions in VM...
--> default: Guest Additions are present but do not match the installed version of VirtualBox. In most cases this is fine, but in rare cases it can prevent things such as shared folders from working properly. If you see persistent problems after installing the guest additions, make sure the guest additions within the virtual machine match the version of VirtualBox you have installed on your host and reload your VM.
--> default: Guest Additions Version: 4.2.0
--> default: VirtualBox Version: 5.1
--> default: Mounting shared folder...
--> default: /vagrant => C:/Users/Seenu/Desktop/TwitterClone
```

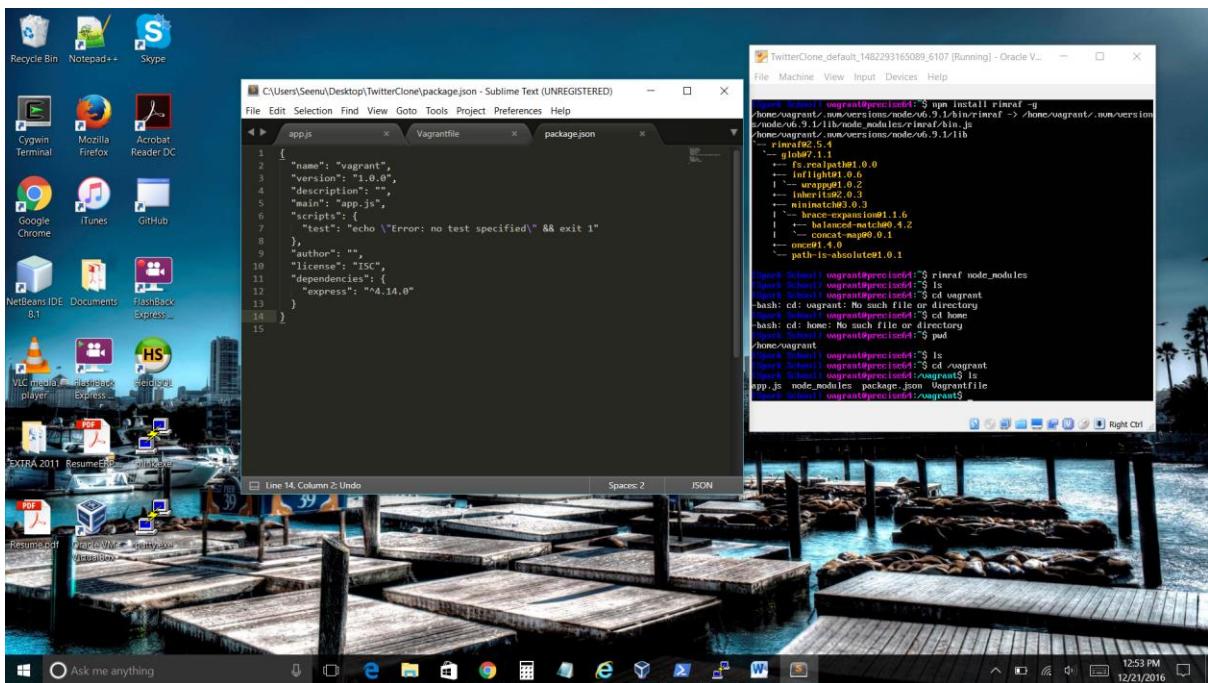
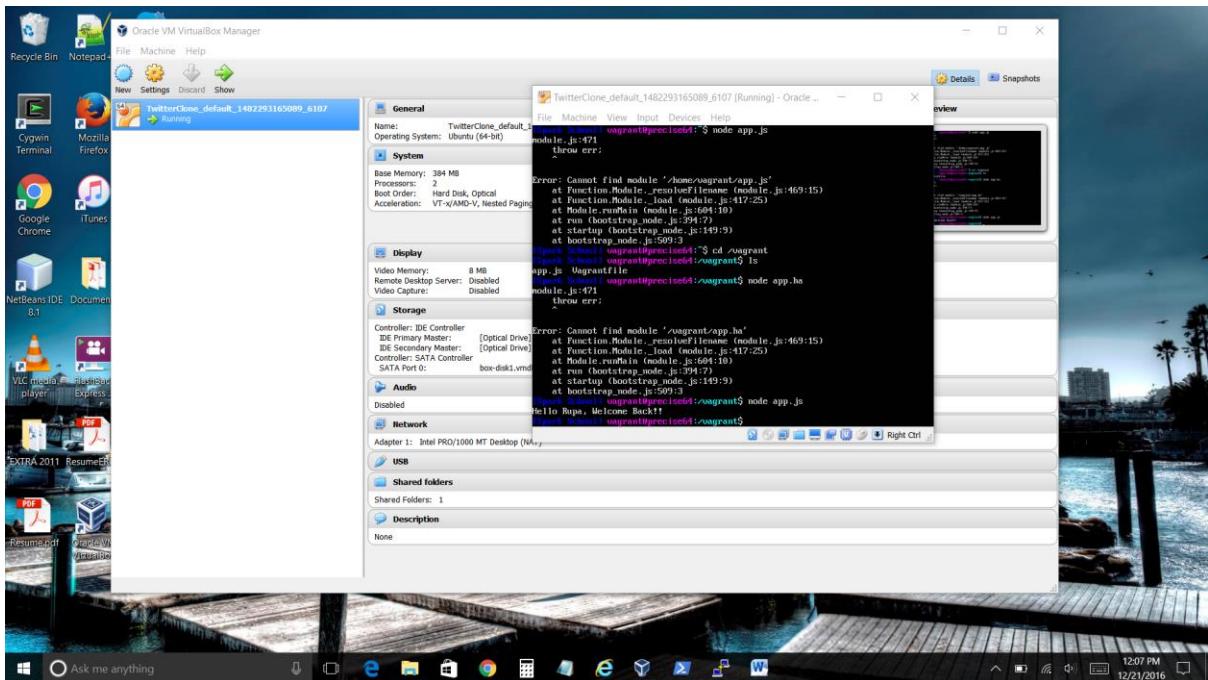




Username and Password is Vagrant.



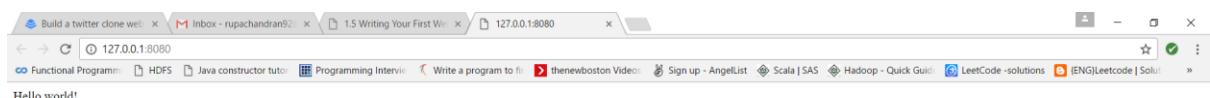
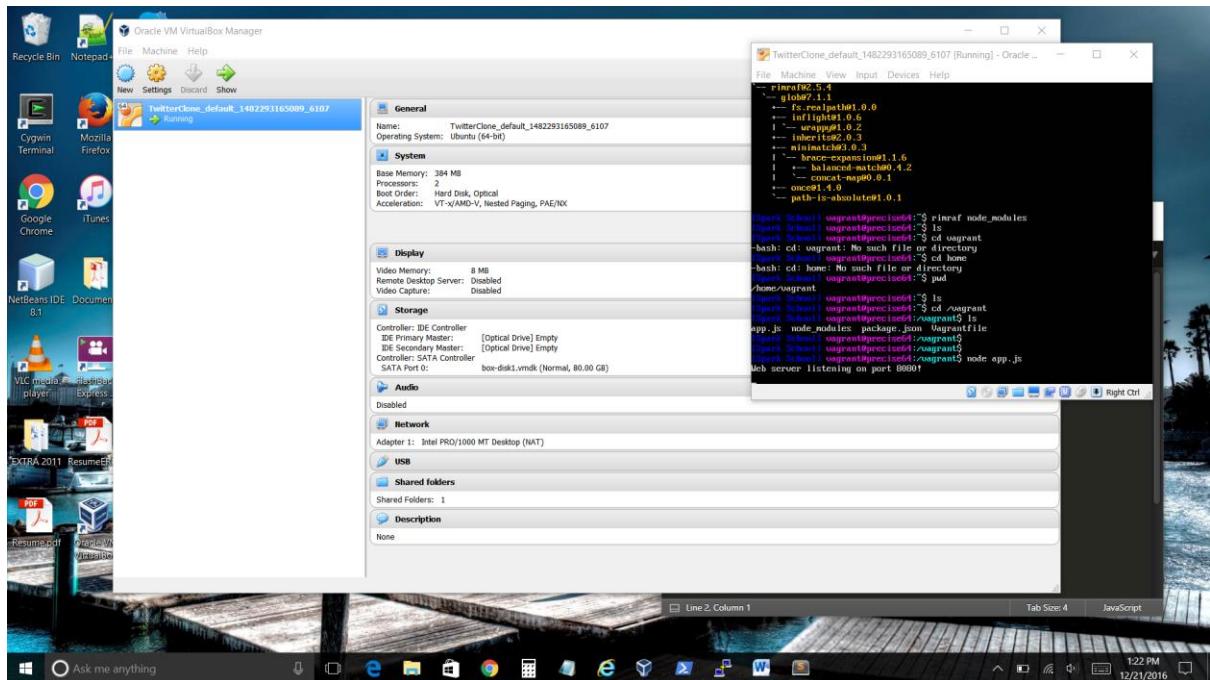
You will be running the commands in the VM terminal

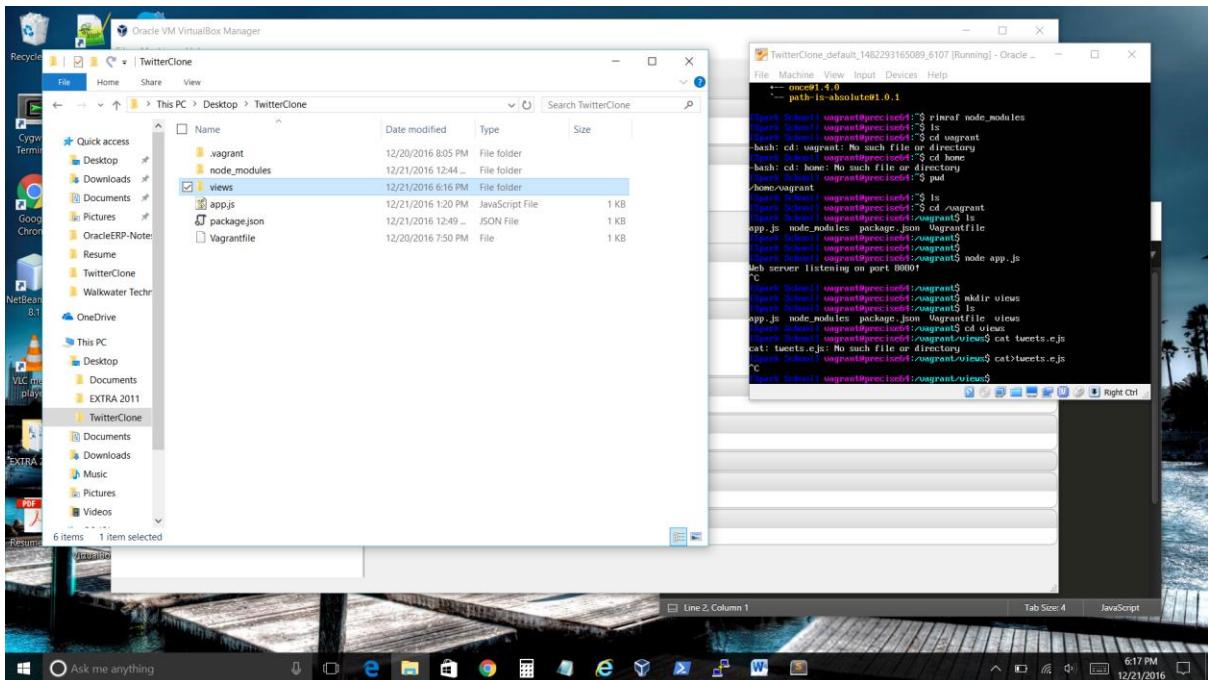


Strict mode:

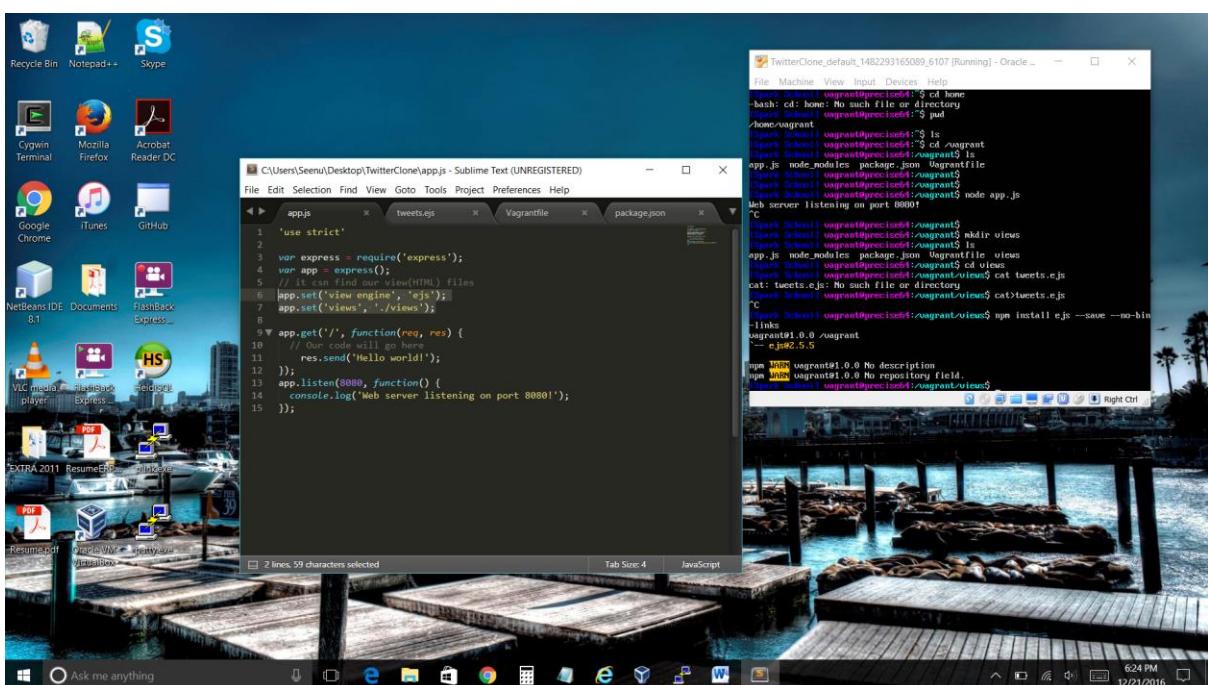
Strict mode makes several changes to normal JavaScript semantics. First, strict mode eliminates some JavaScript silent errors by changing them to throw errors. Second, strict mode fixes mistakes that make it difficult for JavaScript engines to perform optimizations: strict mode code can sometimes be made to run faster than identical code that's not strict mode. Third, strict mode prohibits some syntax likely to be defined in future versions of ECMAScript.

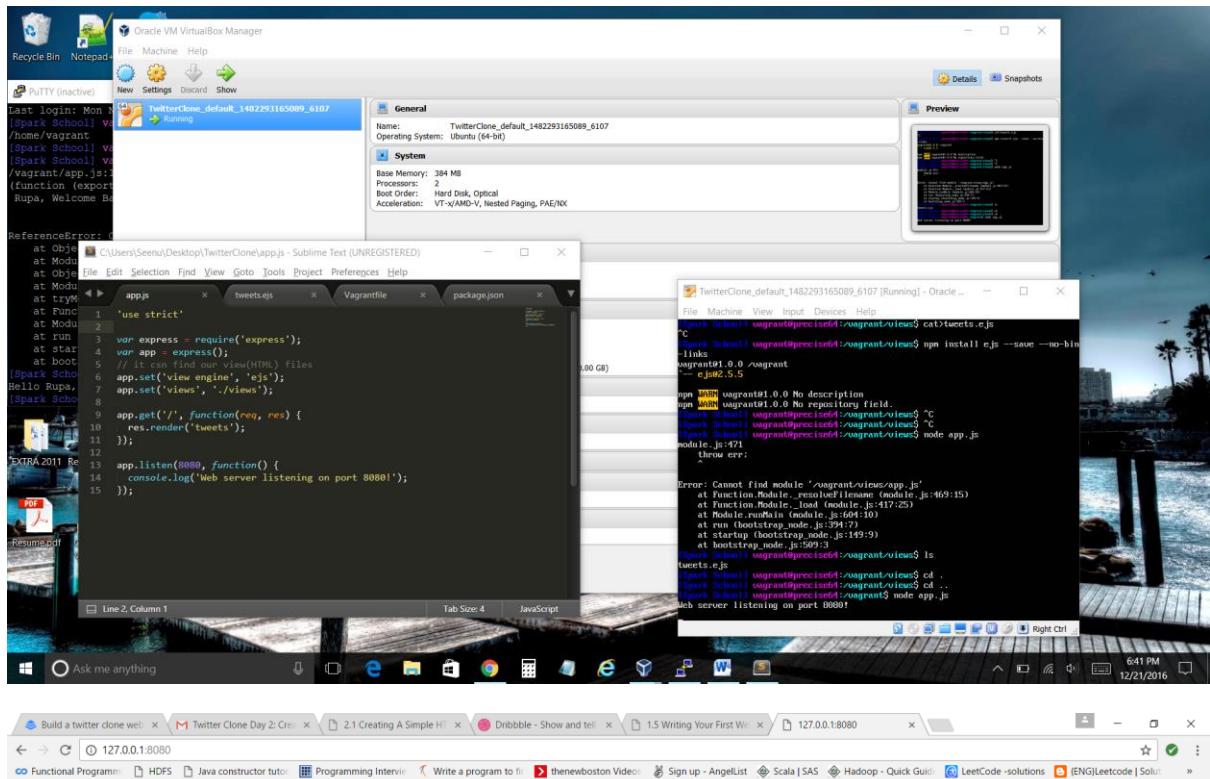
Connected to the server:





Install ejjs:

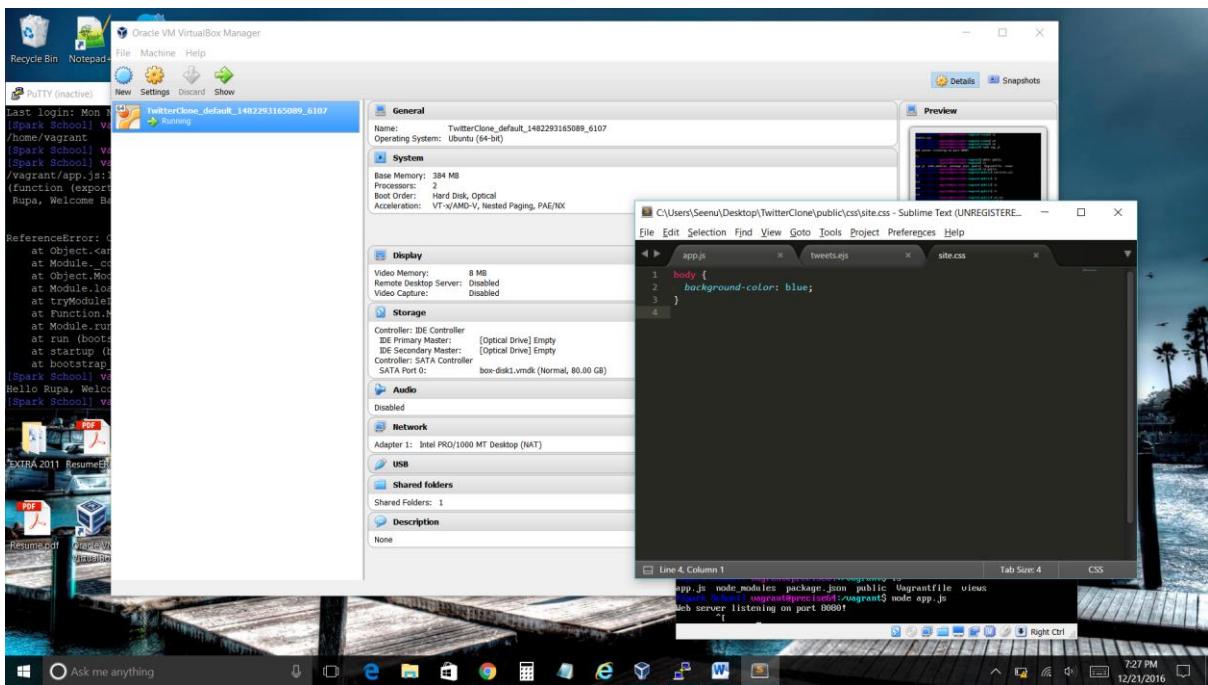
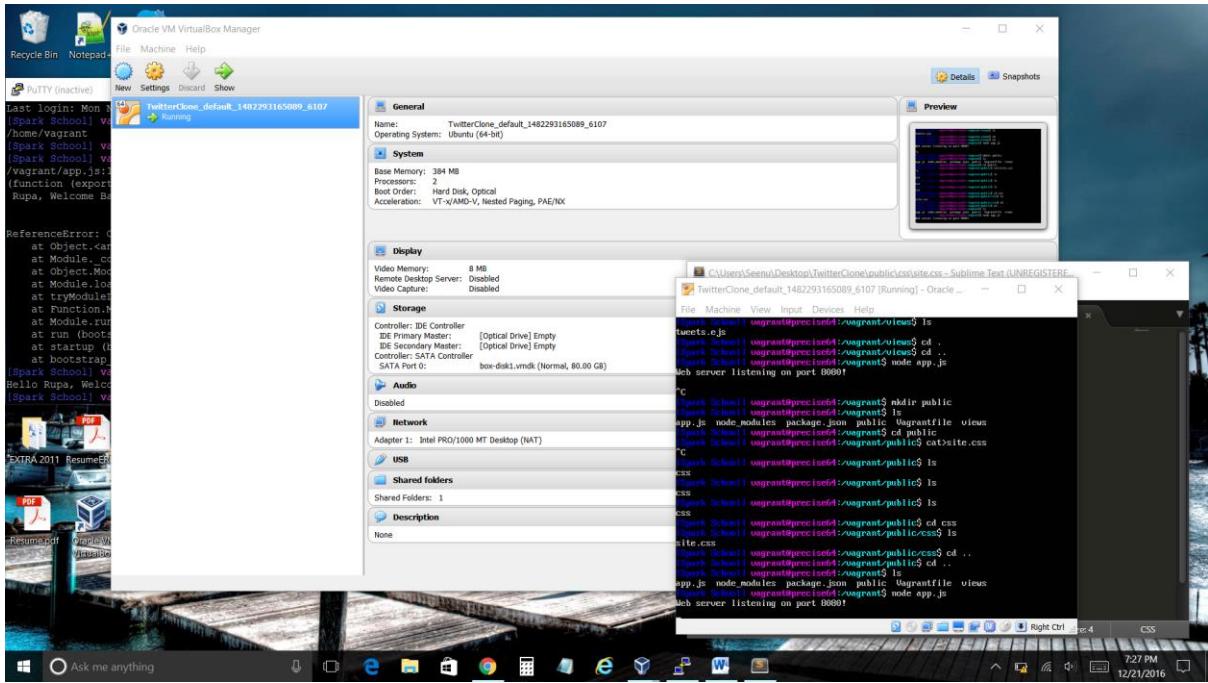




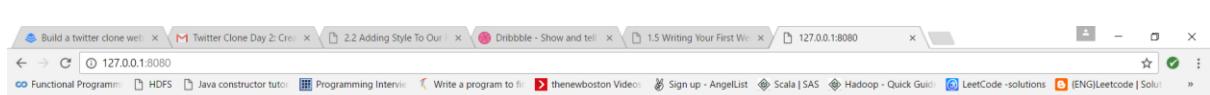
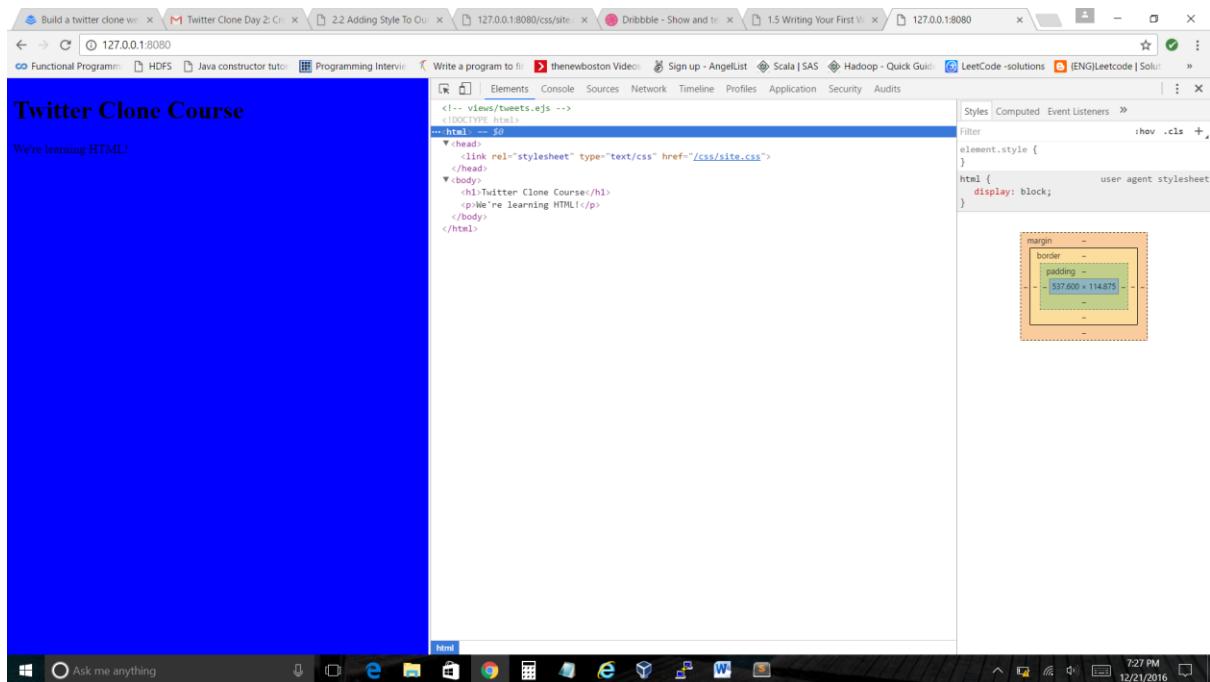
Twitter Clone Course

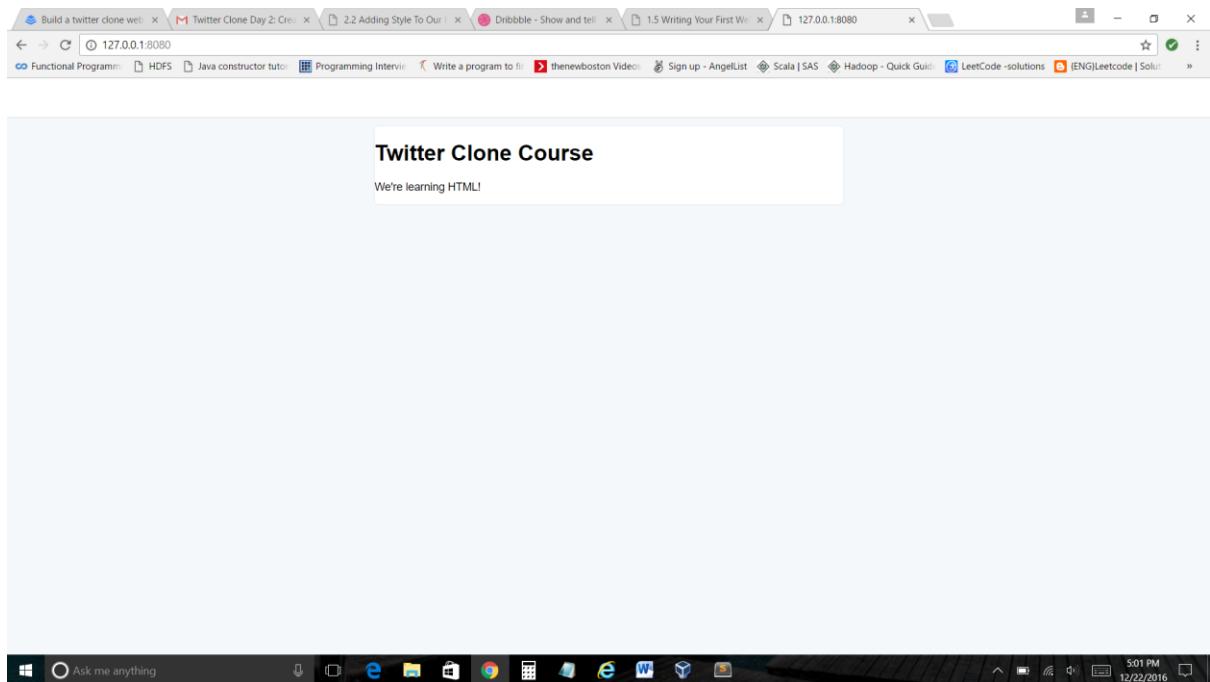
We're learning HTML!



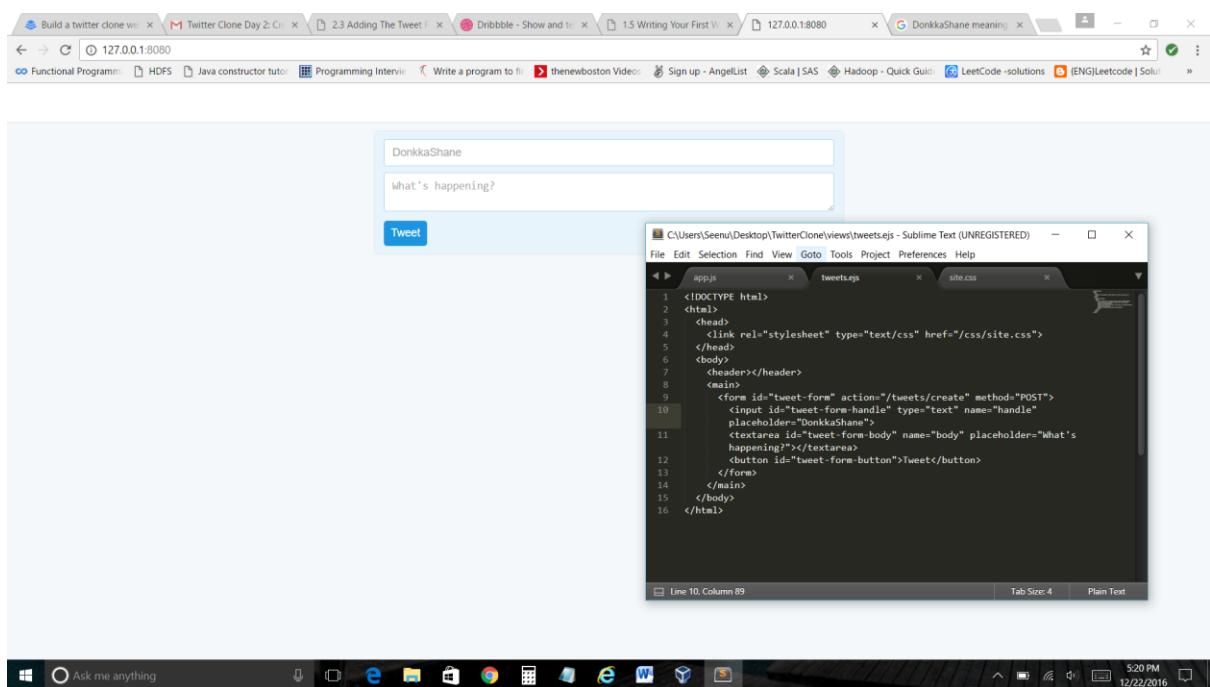


After the css styling:

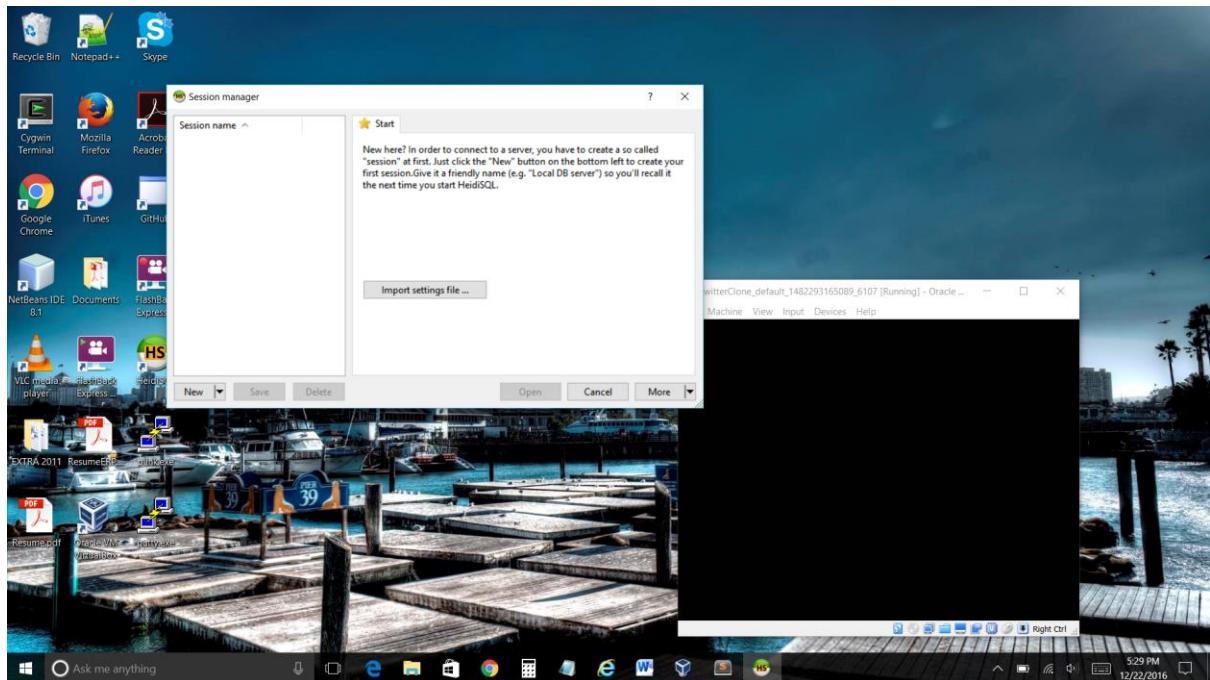




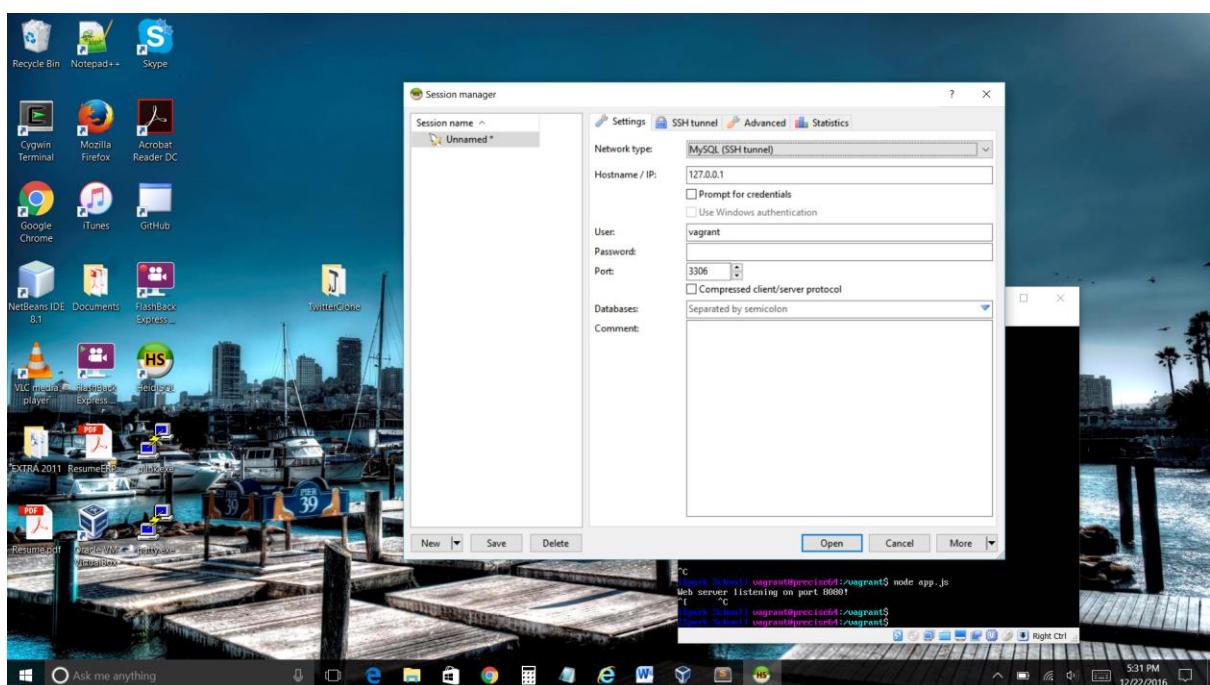
After creating form:

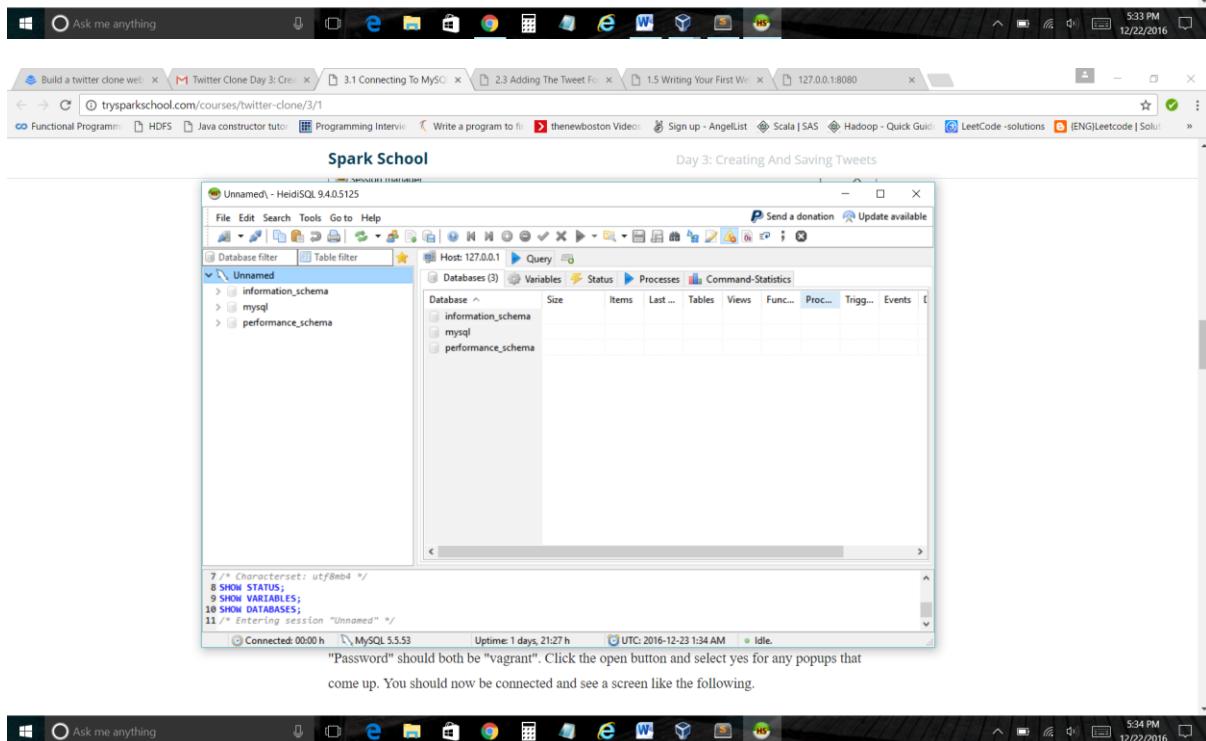
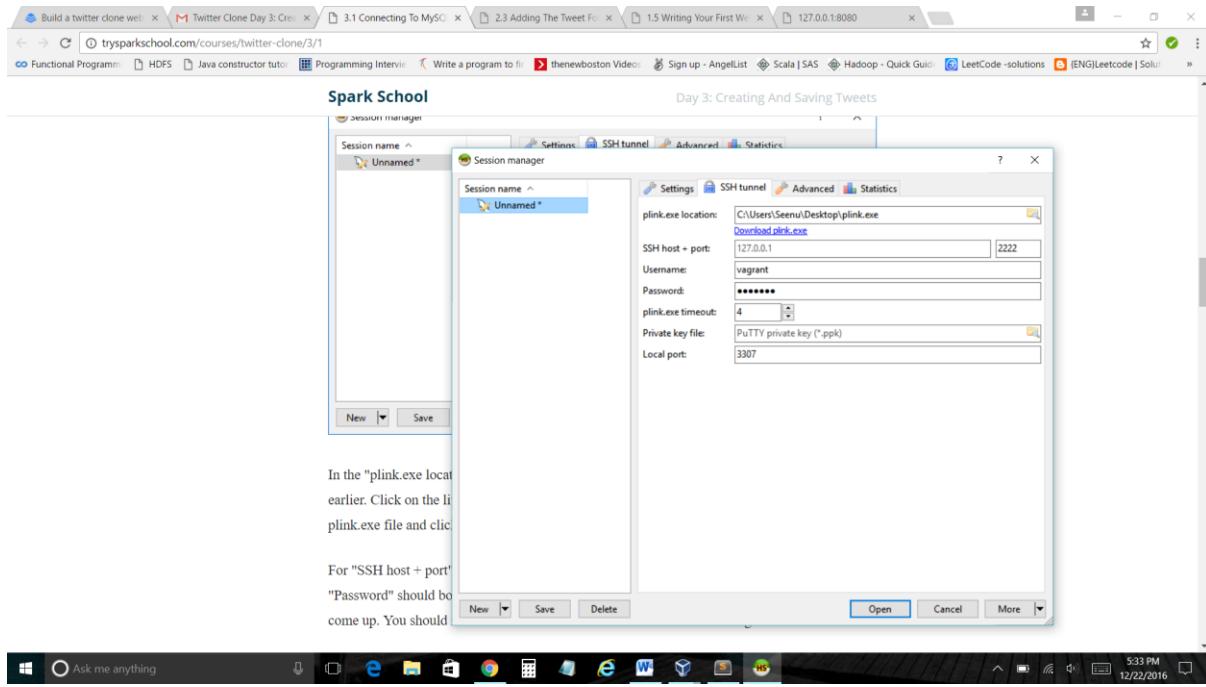


Connect your webpage to the database HeidiSQL

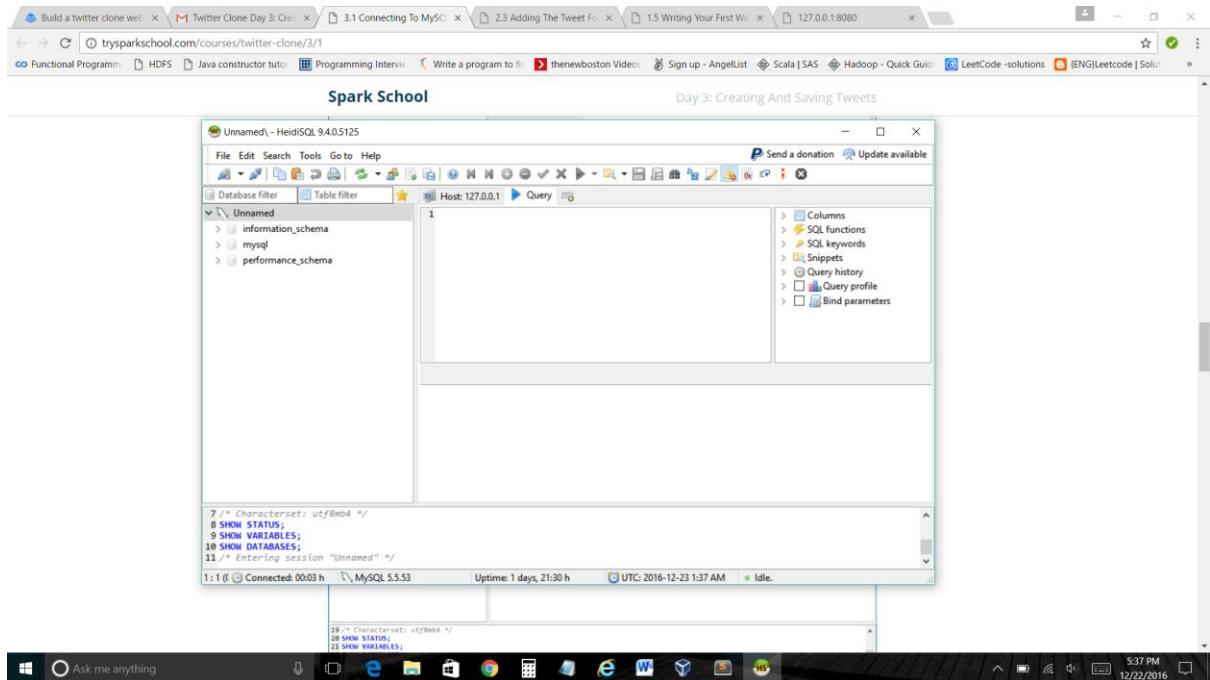


Create new

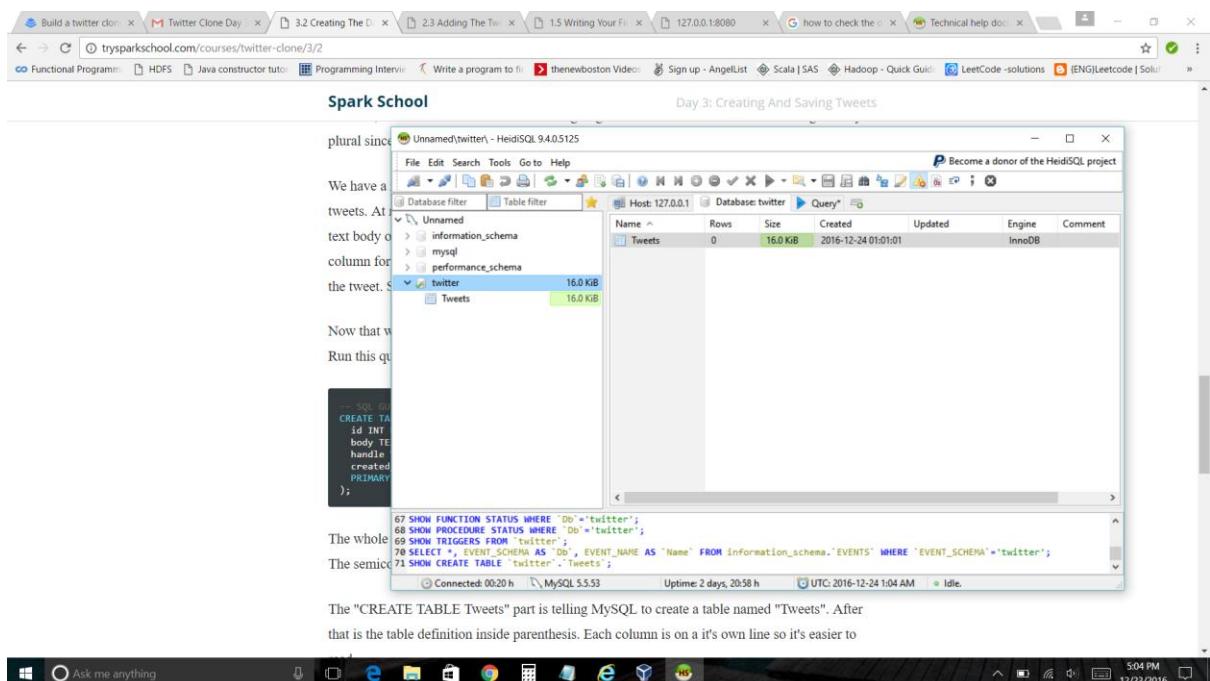


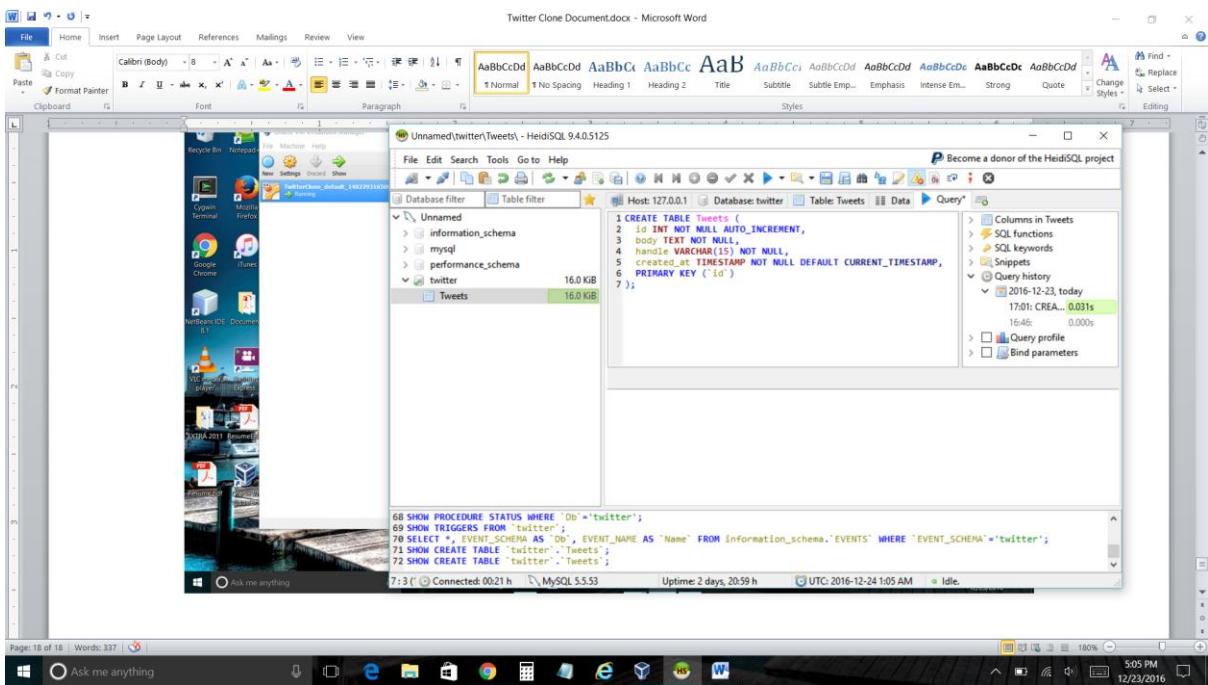
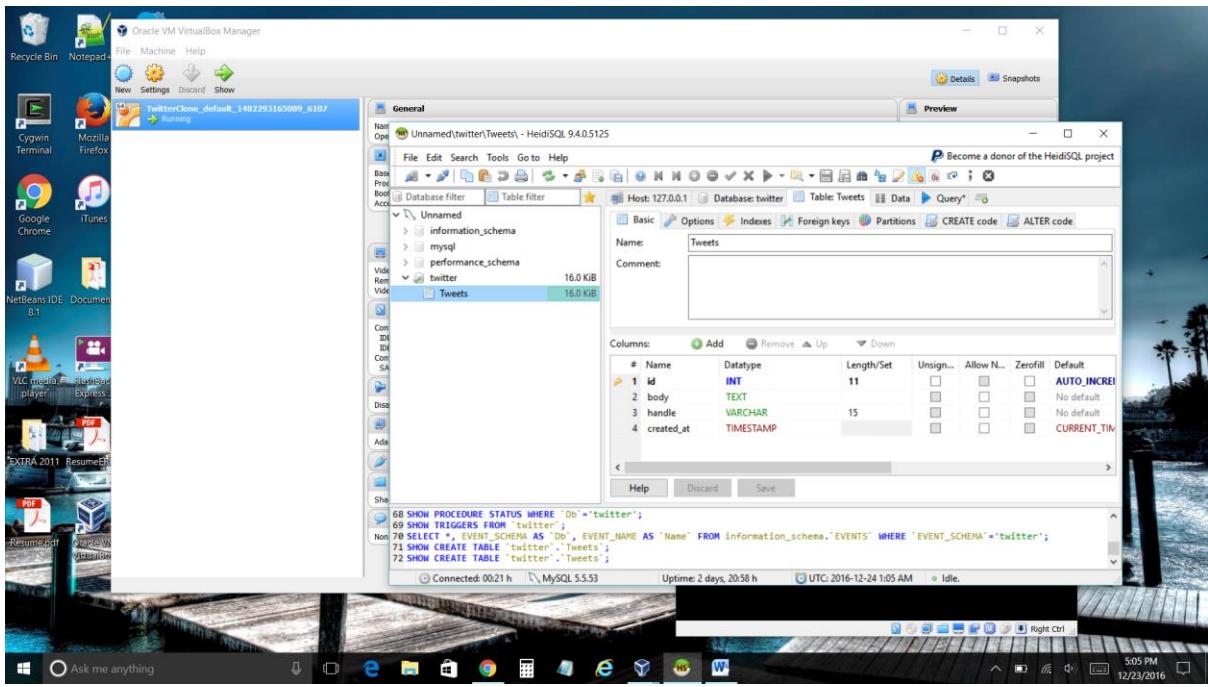


Click on the "Query" tab in the upper middle part of the screen. This will open a window where you can run SQL queries on the database.



Creating Table in HeidiSQL:





Screenshot of a web browser showing multiple tabs related to a Twitter clone project. The active tab is "Day 3: Creating And Saving Tweets". A MySQL query window is open, showing the execution of an INSERT INTO command:

```

1 INSERT INTO Tweets(handle, body) VALUES('DonikaShane', 'Having a great time teaching this Twitter clone course!');

```

The query was successful, returning 1 affected row. Below the query window, the Windows taskbar shows various application icons.

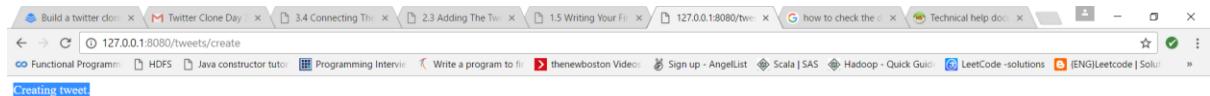
Execute the query everytime when you want to see the output

Screenshot of Microsoft Word showing a document titled "Twitter Clone Document.docx". An embedded MySQL query window displays the result of a SELECT * query on the Tweets table:

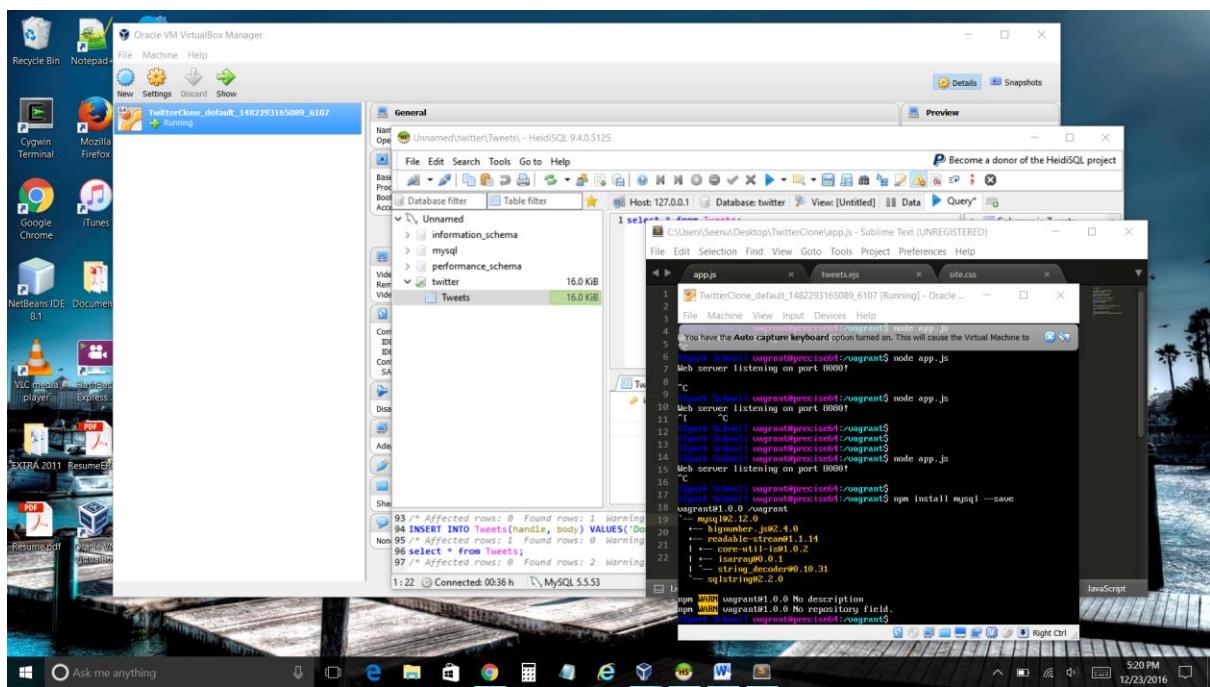
| | id | body | handle | created_at |
|---|----|---|-------------|---------------------|
| 1 | | Having a great time teaching this Twitter clone course! | DonikaShane | 2016-12-24 10:10:09 |

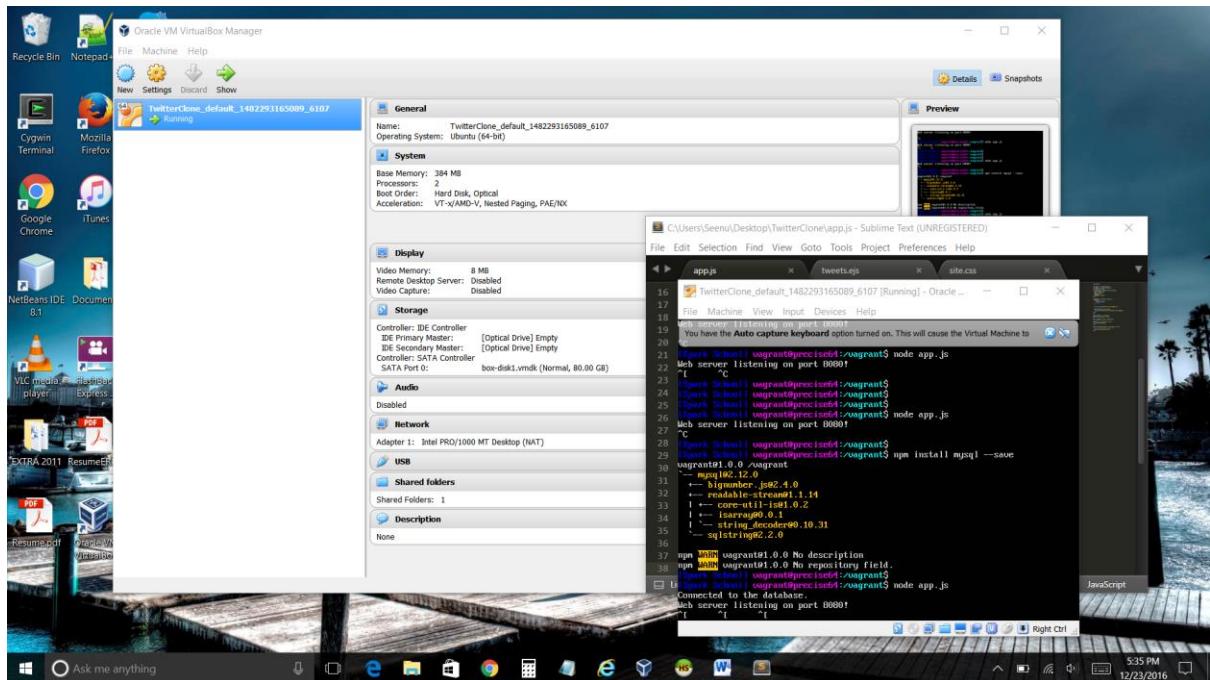
The query was successful, returning 1 affected row. Below the query window, the Windows taskbar shows various application icons.

When you click tweet in the webpage page looks like this



Connecting To the Database:

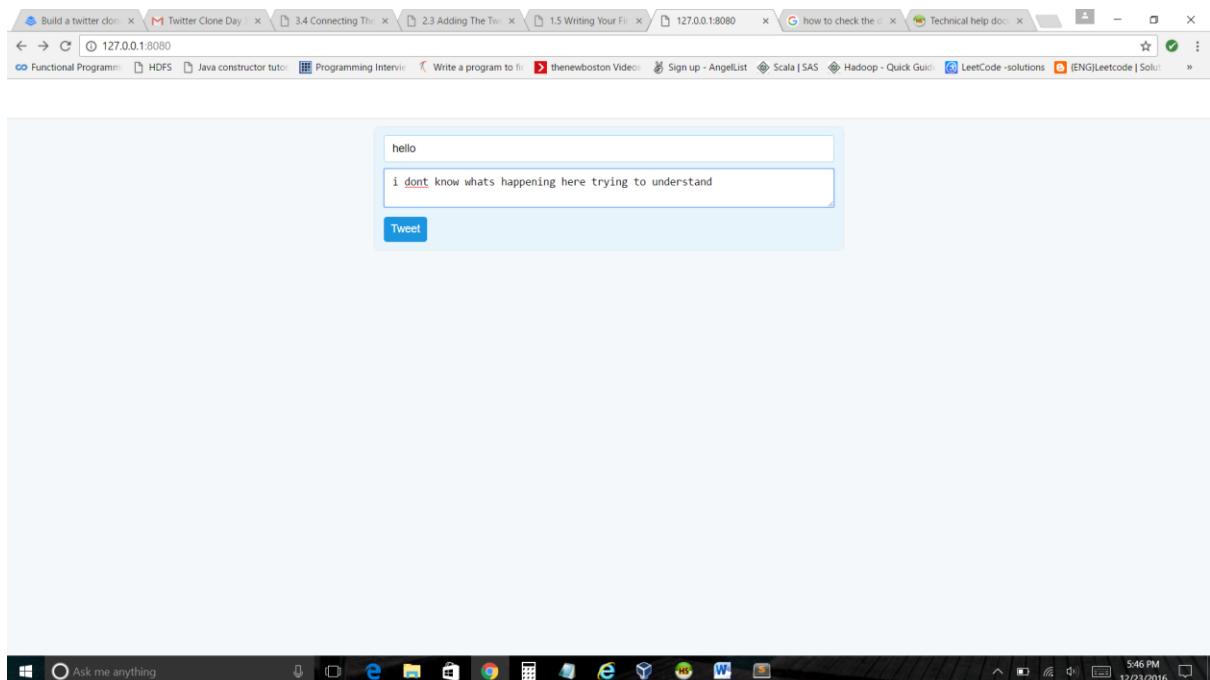


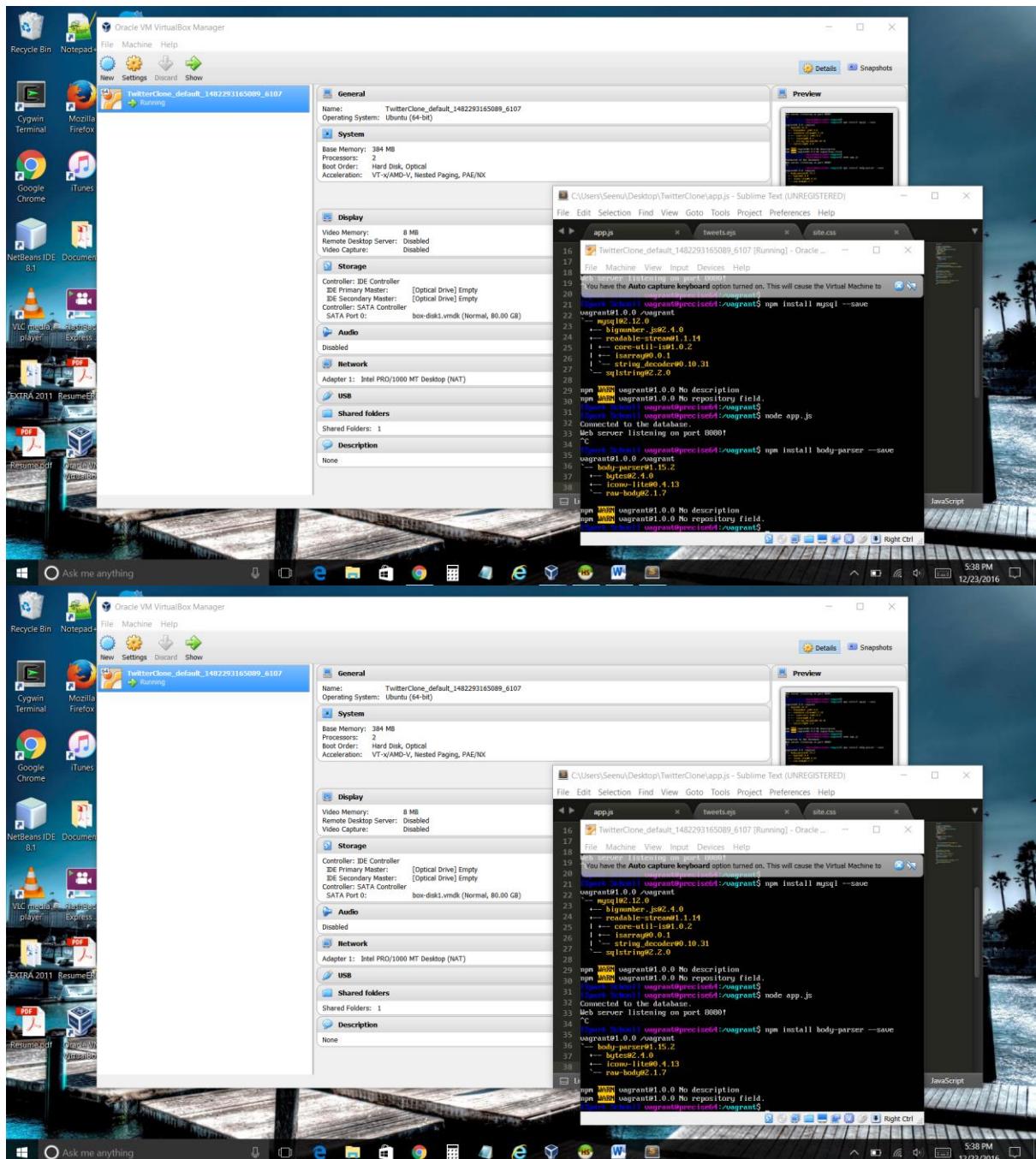


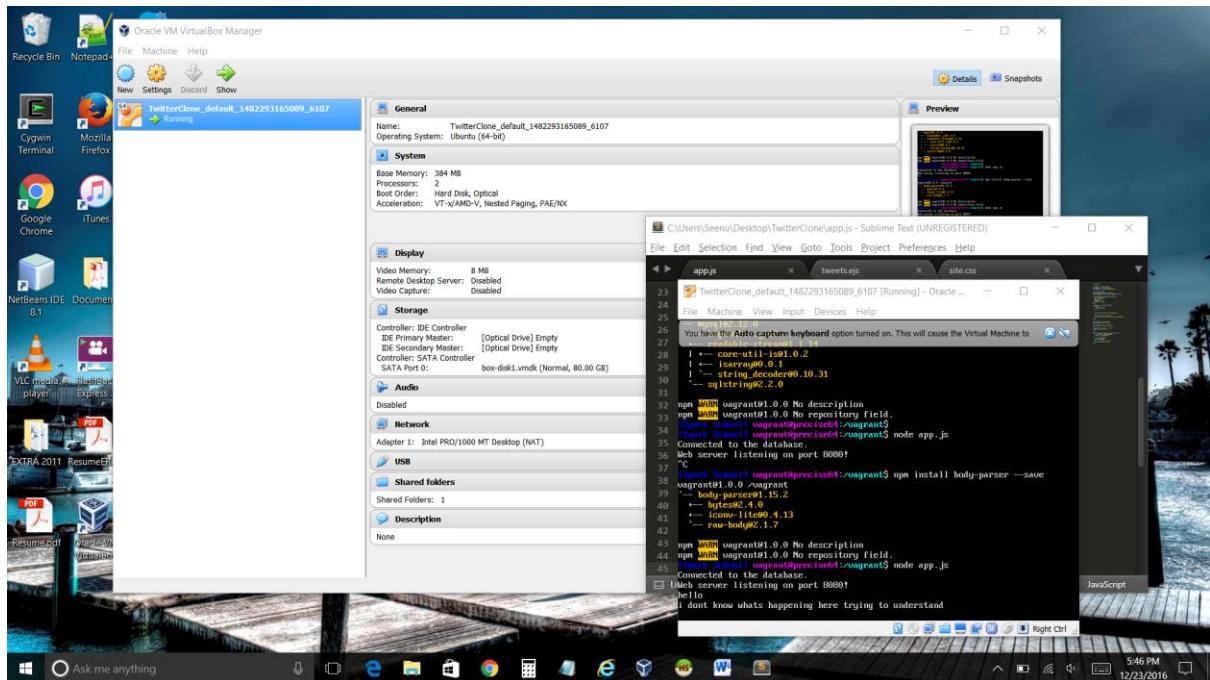
Saving the Tweet to the Database

We now have a connection to our database in "app.js", so let's get the form data and save our Tweet to the database.

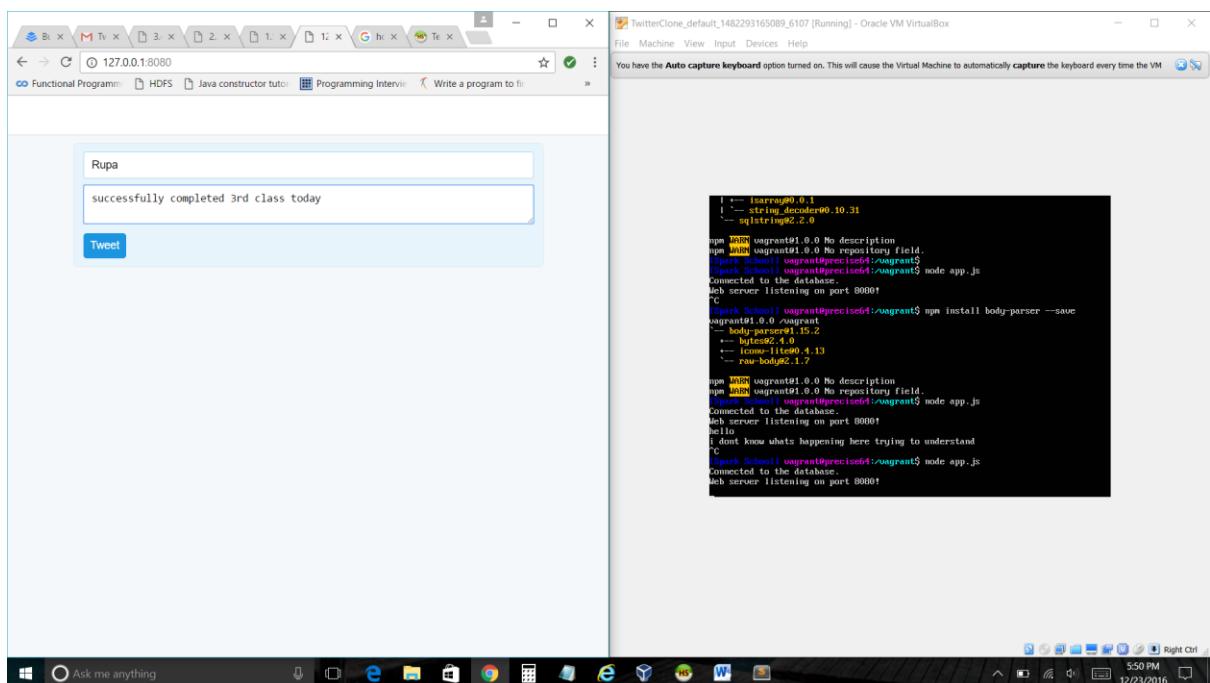
Since the POST request body is URL encoded, we need to decode it with middleware so we can read our form values. There is an Express library we need to install to do this called [body-parser](#).

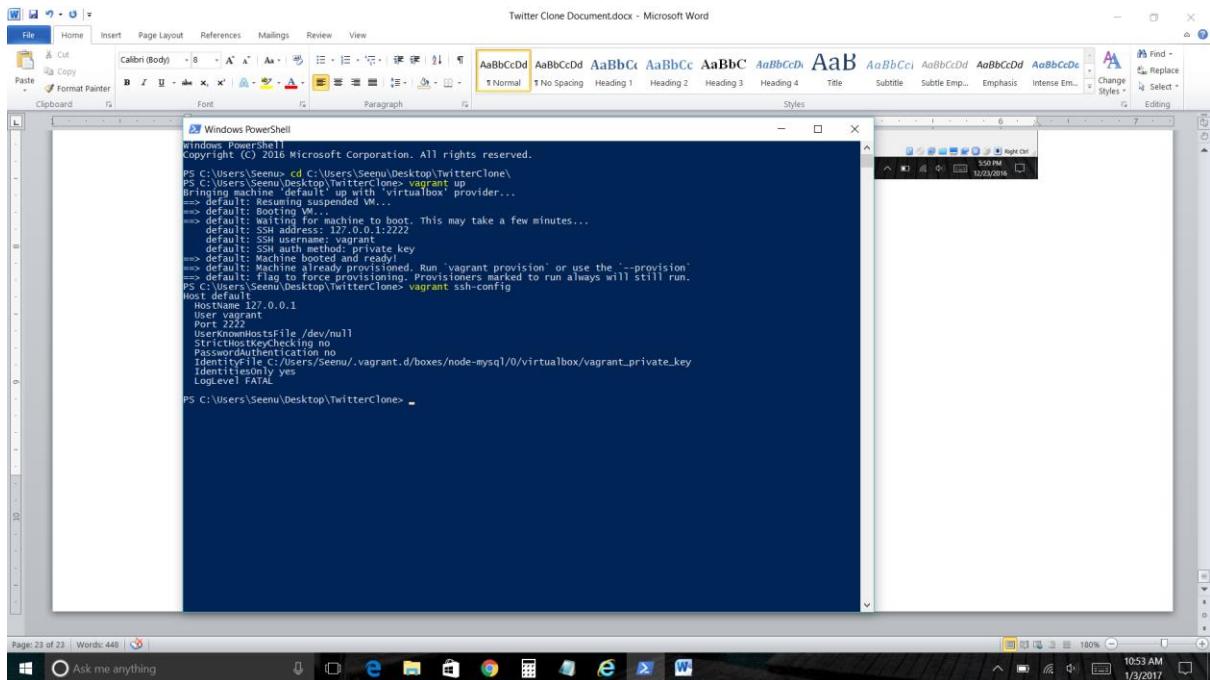




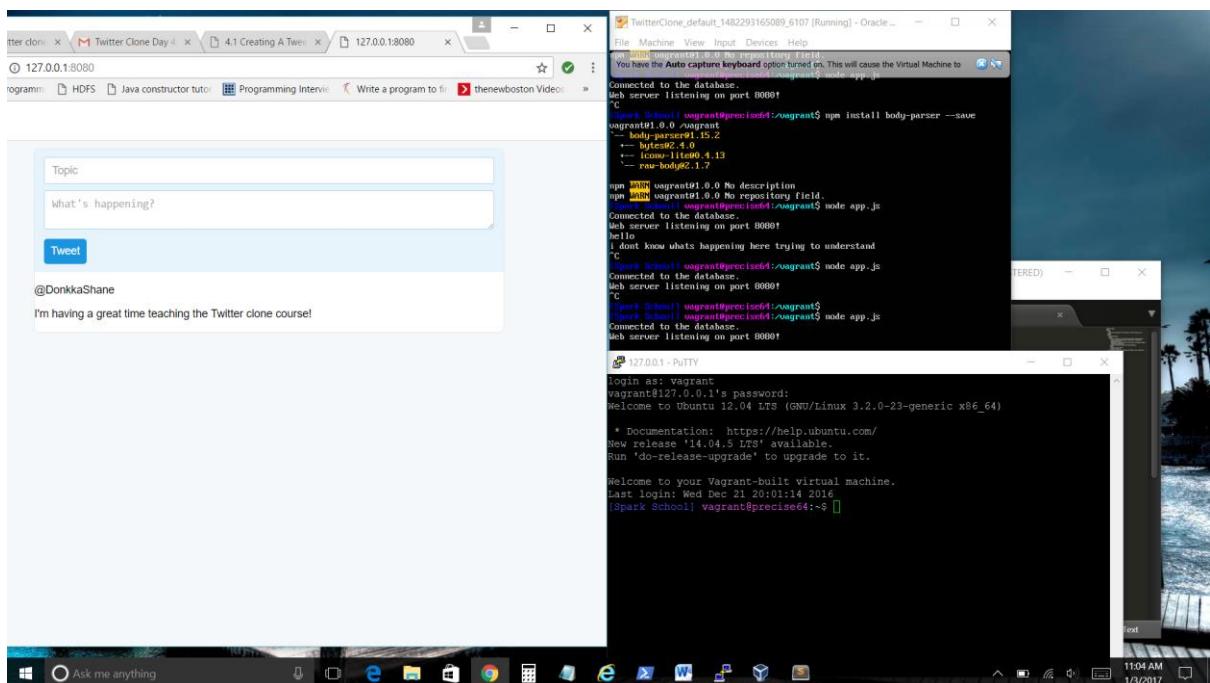


Stored in the tweets table:

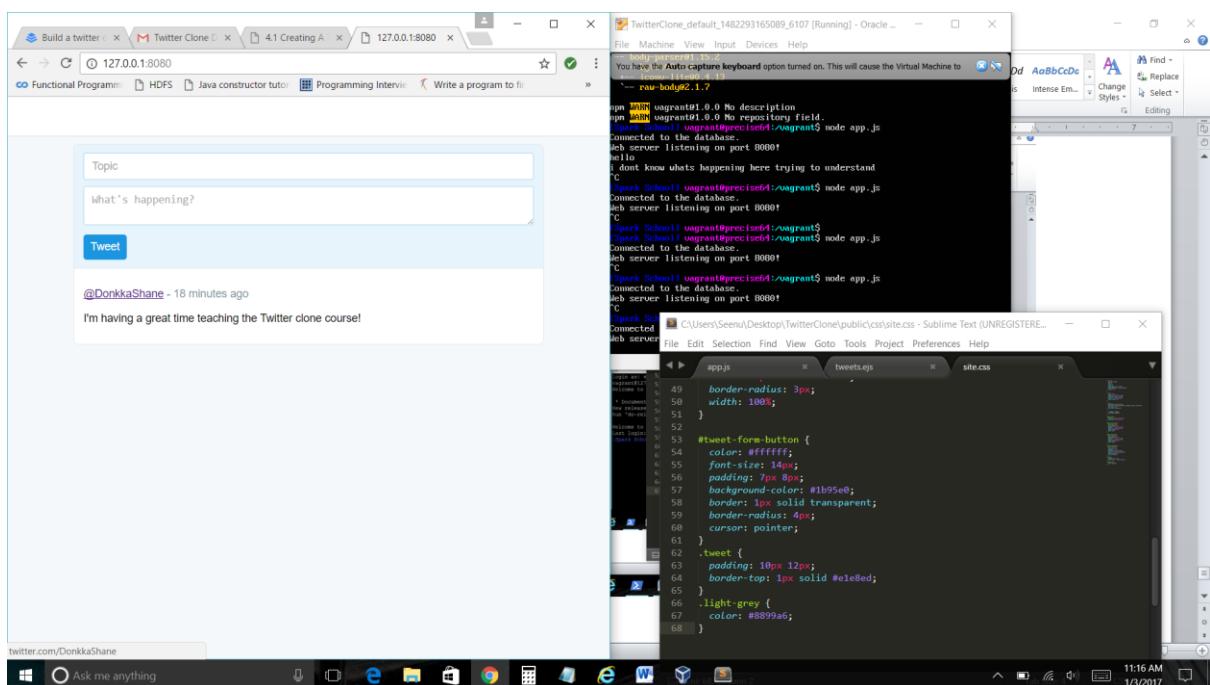
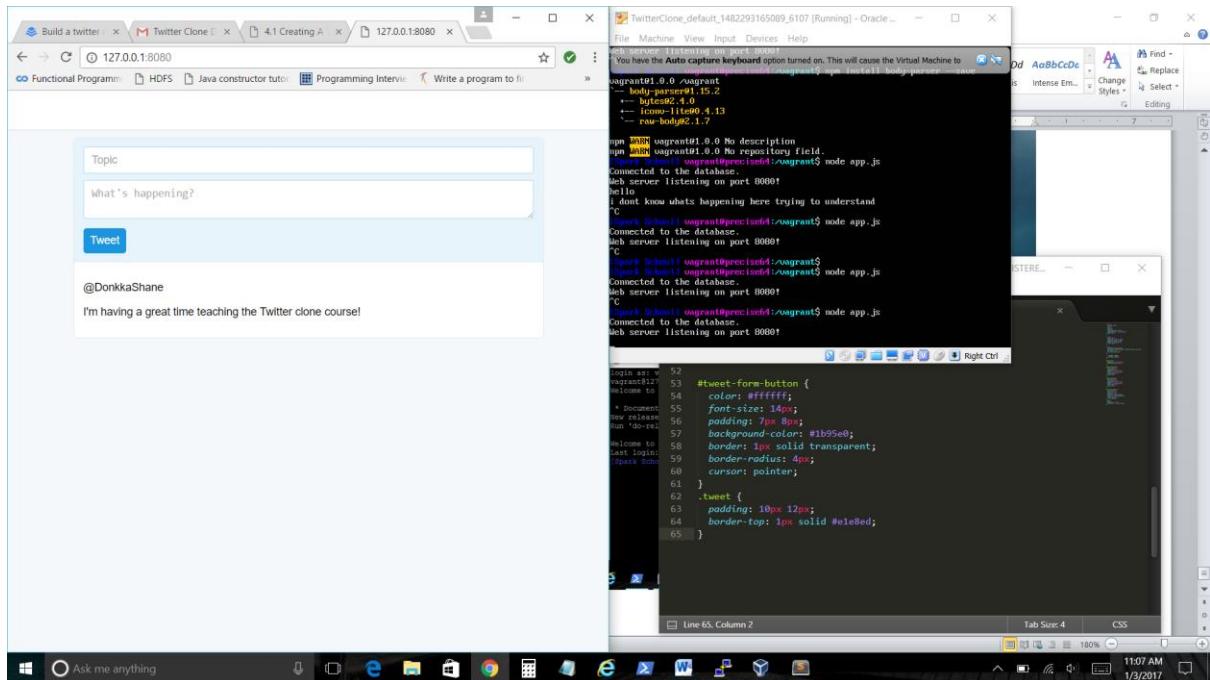




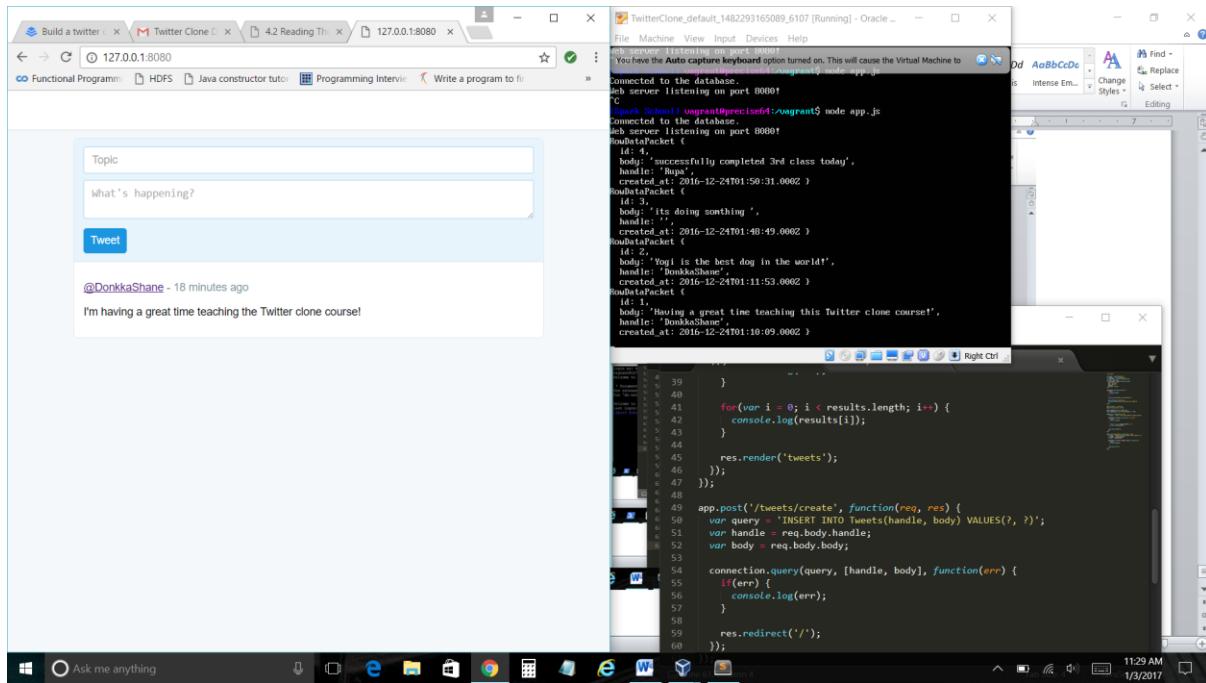
Page: 23 of 23 | Words: 448 |



Adding style

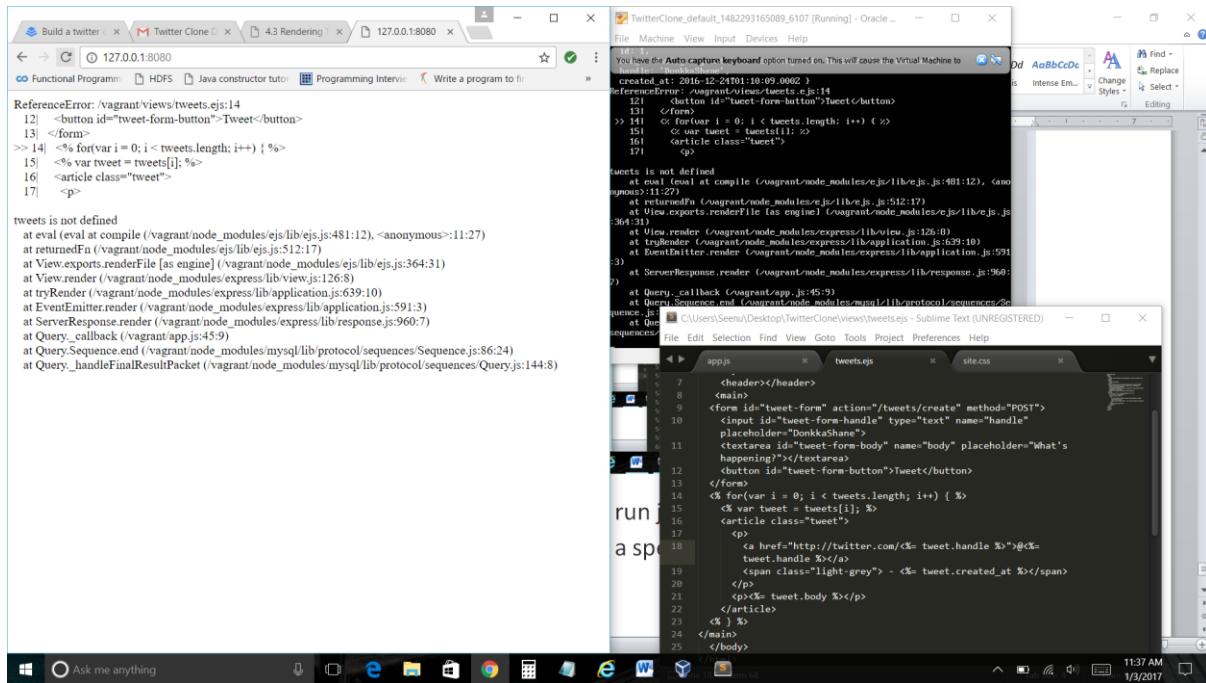


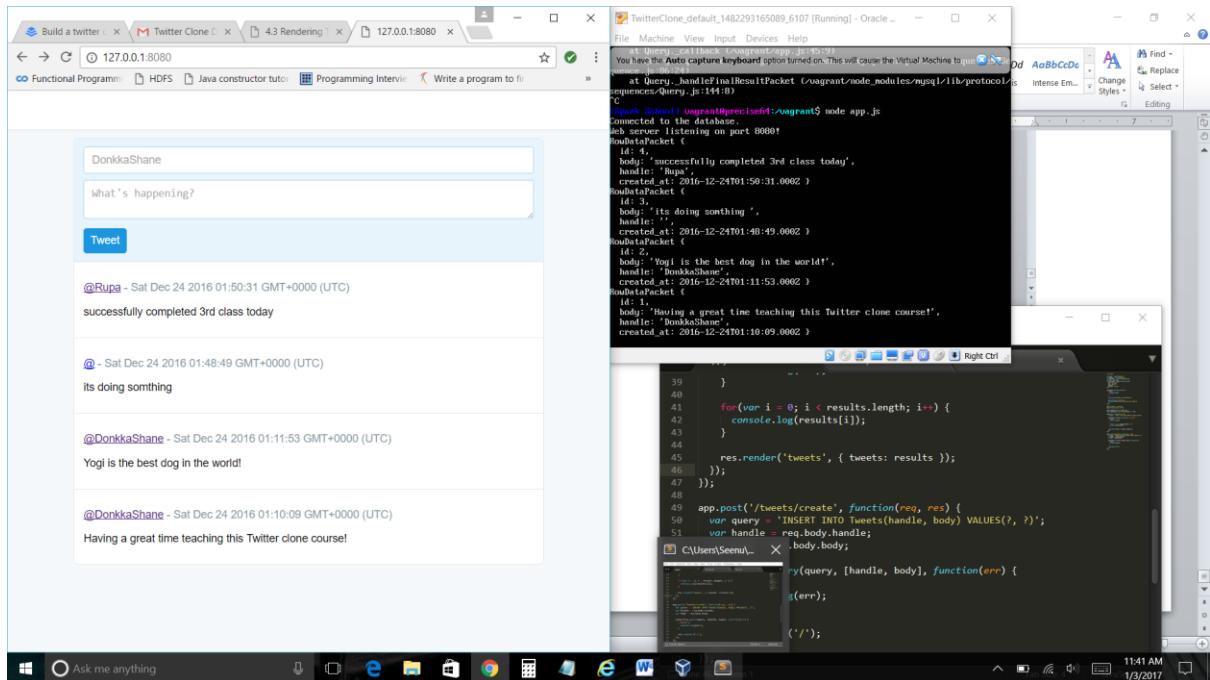
Check the VM terminal in the below screenshot and before that you need to refresh to check the data pulled from database.



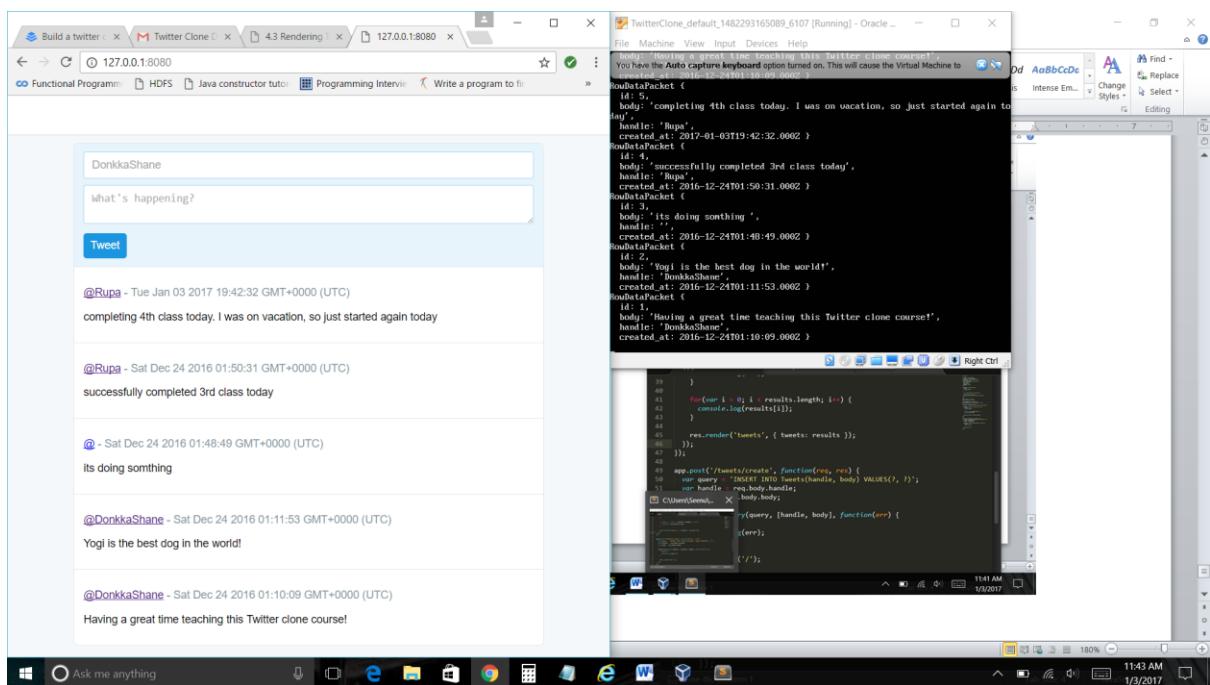
EJS is a template engine that allows us to run javascript code in HTML files. So an EJS file is really just an HTML file that has a special syntax that lets us run JavaScript code in our template.

Some Error: why we got error because we didt handle the tweet result in the app.js

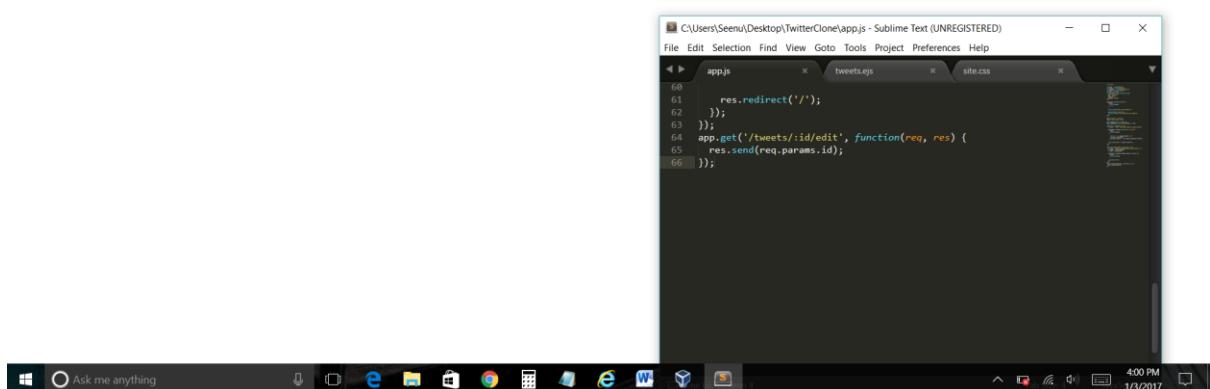
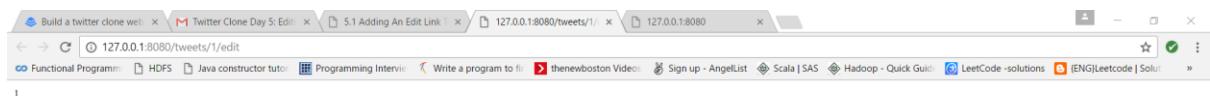
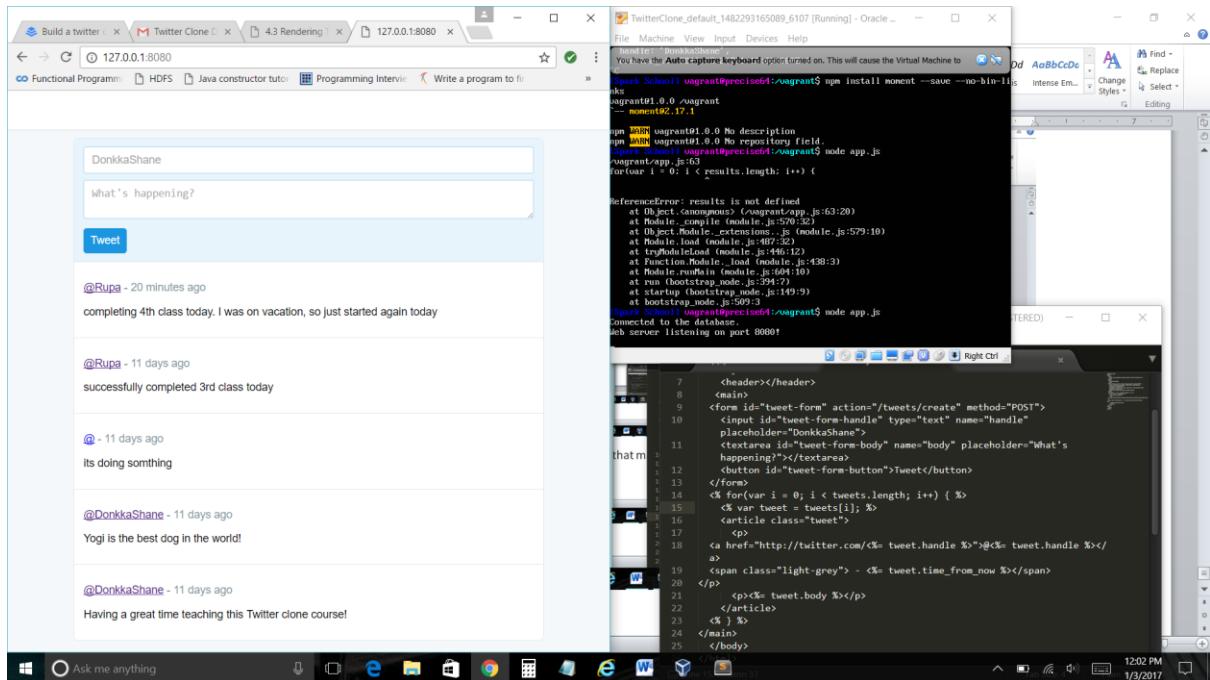


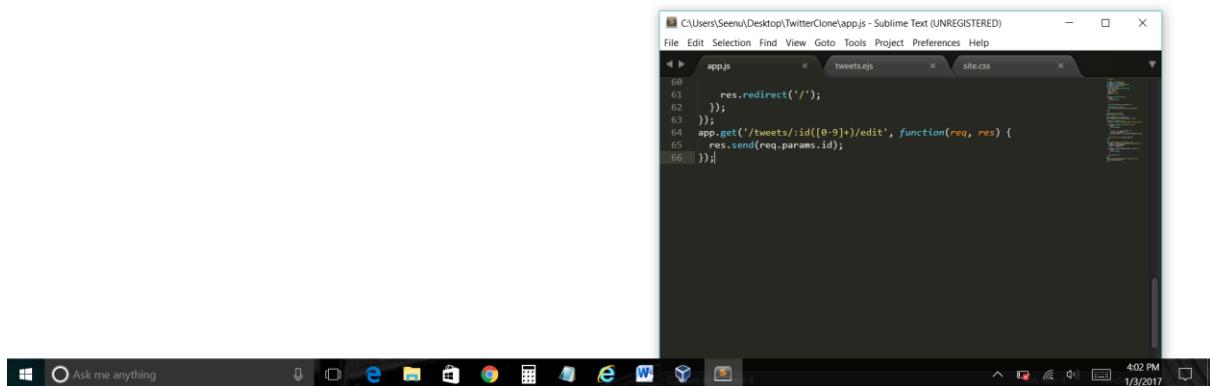
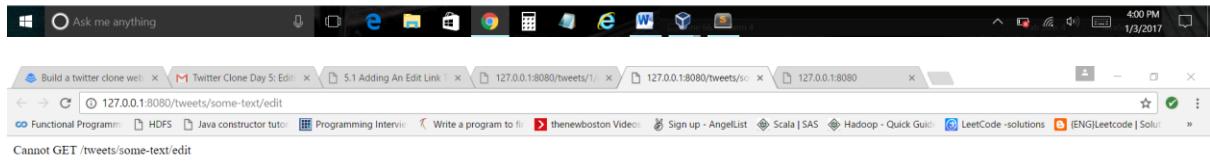
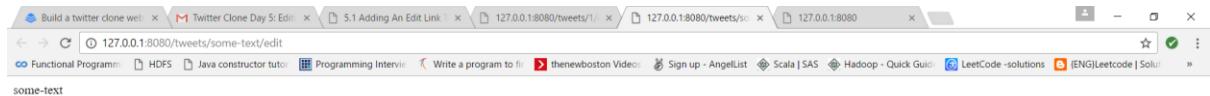


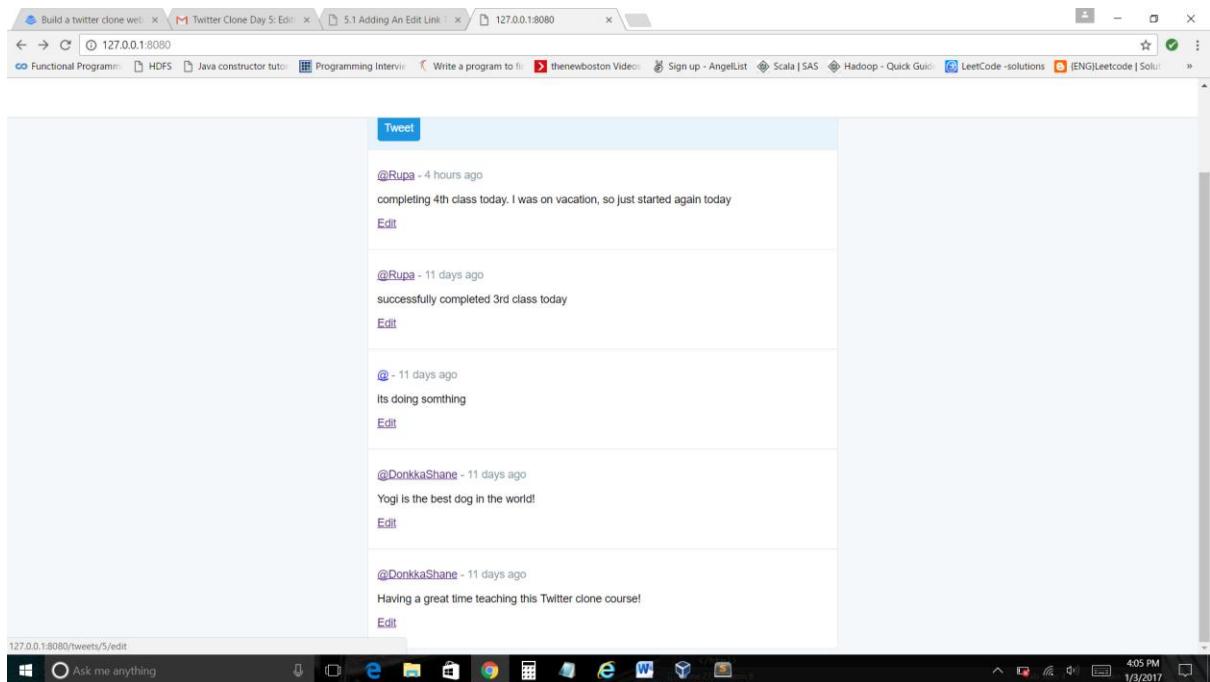
Able to see tweets immediately



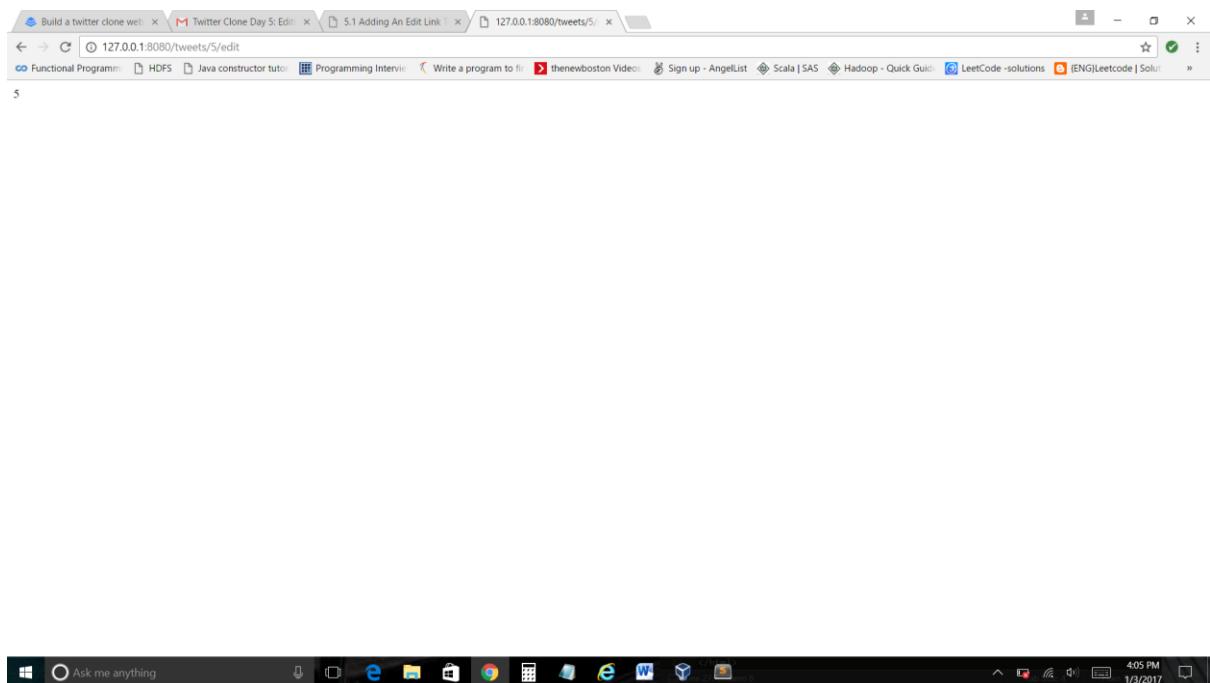
Moment.js is an extremely useful library that makes working with dates really easy.

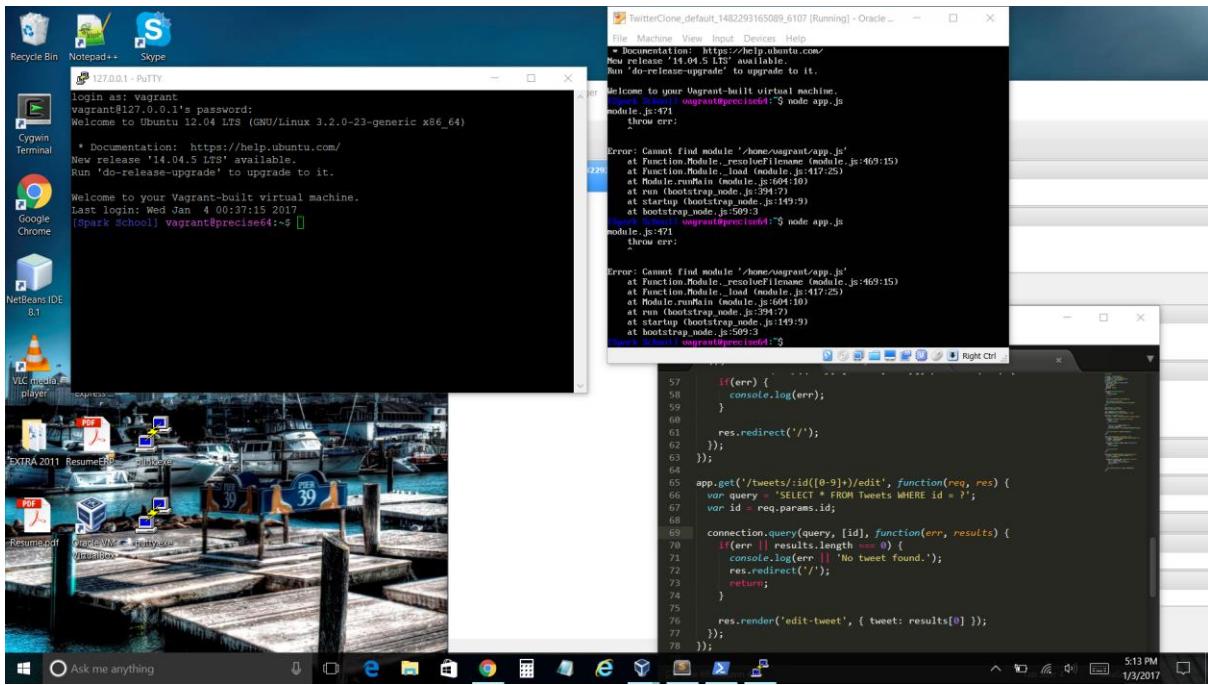




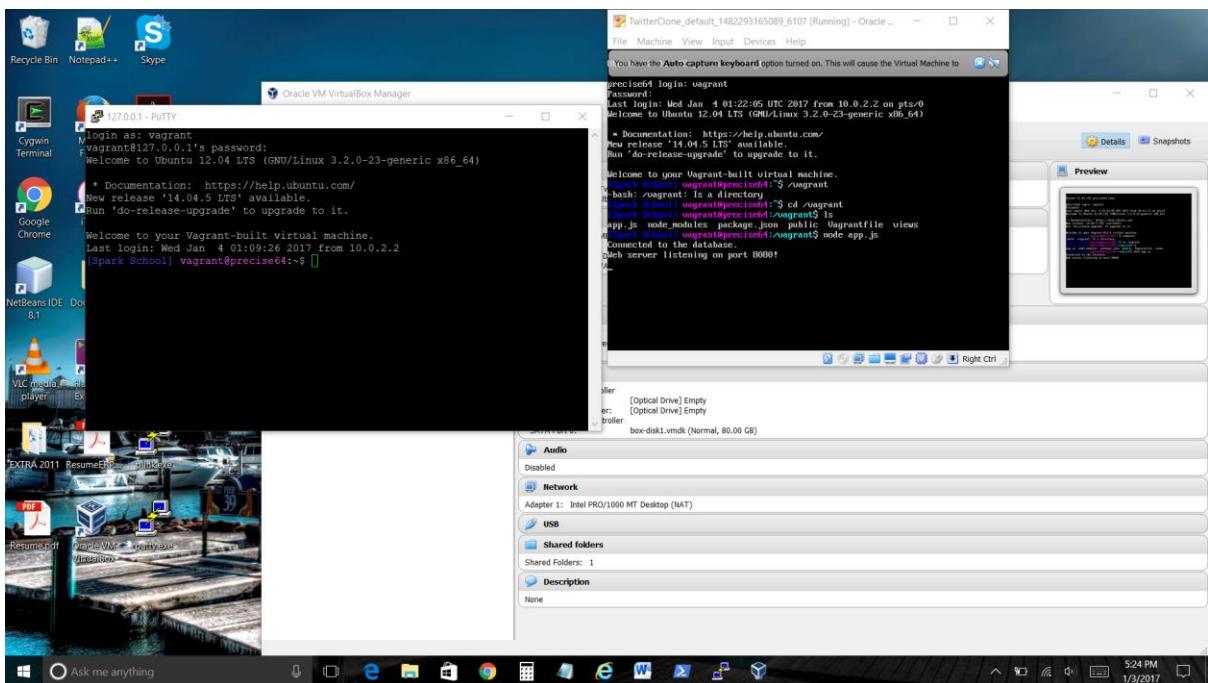


Now our edit tweets path's id parameter can only contain numbers. Let's add a link to our tweet that takes us to the edit page.





Error is need to logon properly



After clicking edit:

The screenshot shows a browser window with multiple tabs open. The active tab displays a stack trace error message:

```
Error: Failed to lookup view "edit-tweet" in views directory "./views"
at EventEmitter.render (/vagrant/node_modules/express/lib/application.js:579:17)
at ServerResponse.render (/vagrant/node_modules/express/lib/response.js:960:7)
at Query._callback (/vagrant/app.js:76:9)
at Query.Sequence.end (/vagrant/node_modules/mysql/lib/protocol/sequences/Sequence.js:86:24)
at Query._handleFinalResultPacket (/vagrant/node_modules/mysql/lib/protocol/sequences/Query.js:144:8)
at Query.EoPPacket (/vagrant/node_modules/mysql/lib/protocol/sequences/Query.js:128:8)
at Protocol._parsePacket (/vagrant/node_modules/mysql/lib/protocol/Protocol.js:280:23)
at Parser.write (/vagrant/node_modules/mysql/lib/protocol/Parser.js:74:12)
at Protocol.write (/vagrant/node_modules/mysql/lib/protocol/Protocol.js:39:16)
at Socket.<anonymous> (/vagrant/node_modules/mysql/lib/Connection.js:109:28)
```

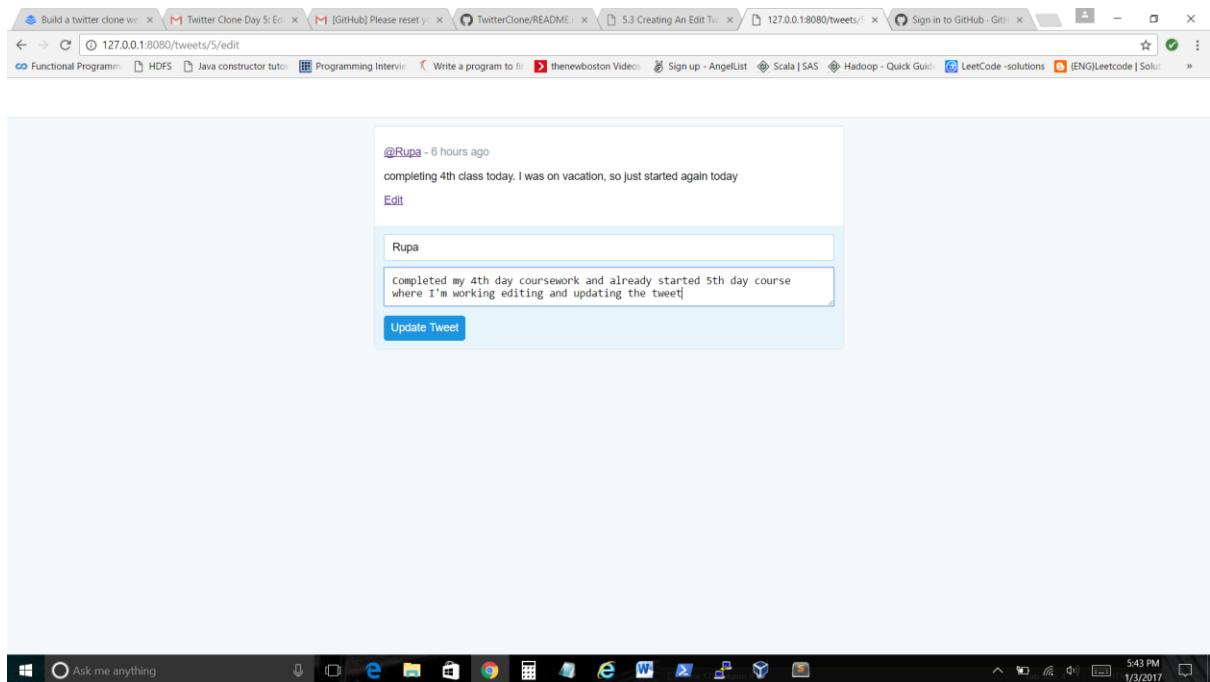


After changing the code you will be able to edit your tweet and update your tweet

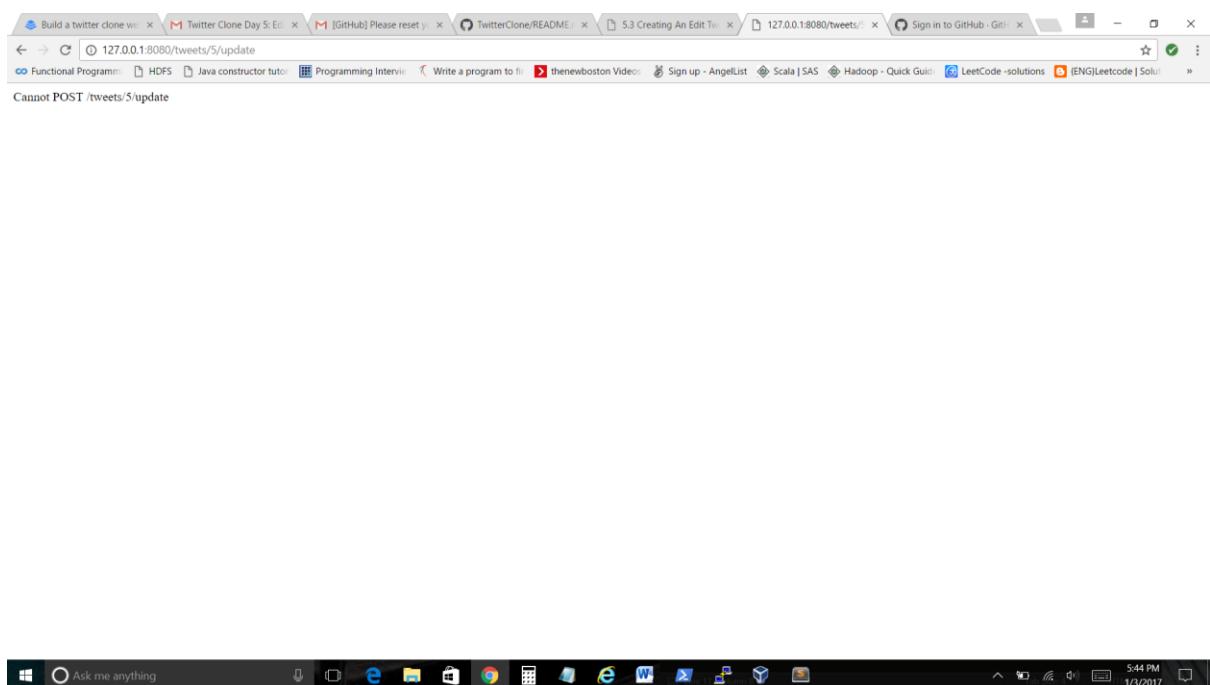
The screenshot shows a browser window displaying a tweet editing interface. The tweet content is:

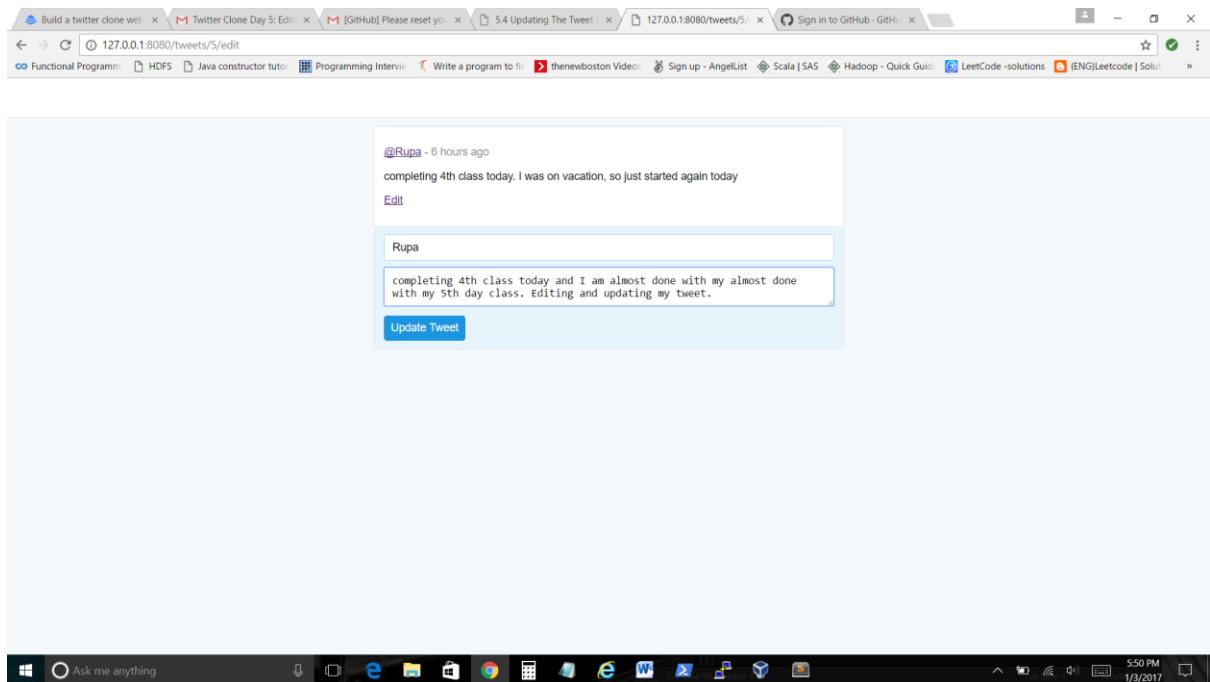
@Rupa - 6 hours ago
completing 4th class today. I was on vacation, so just started again today

Below the tweet text is an 'Edit' link. A text input field contains the same tweet text, and a blue 'Update Tweet' button is visible at the bottom.

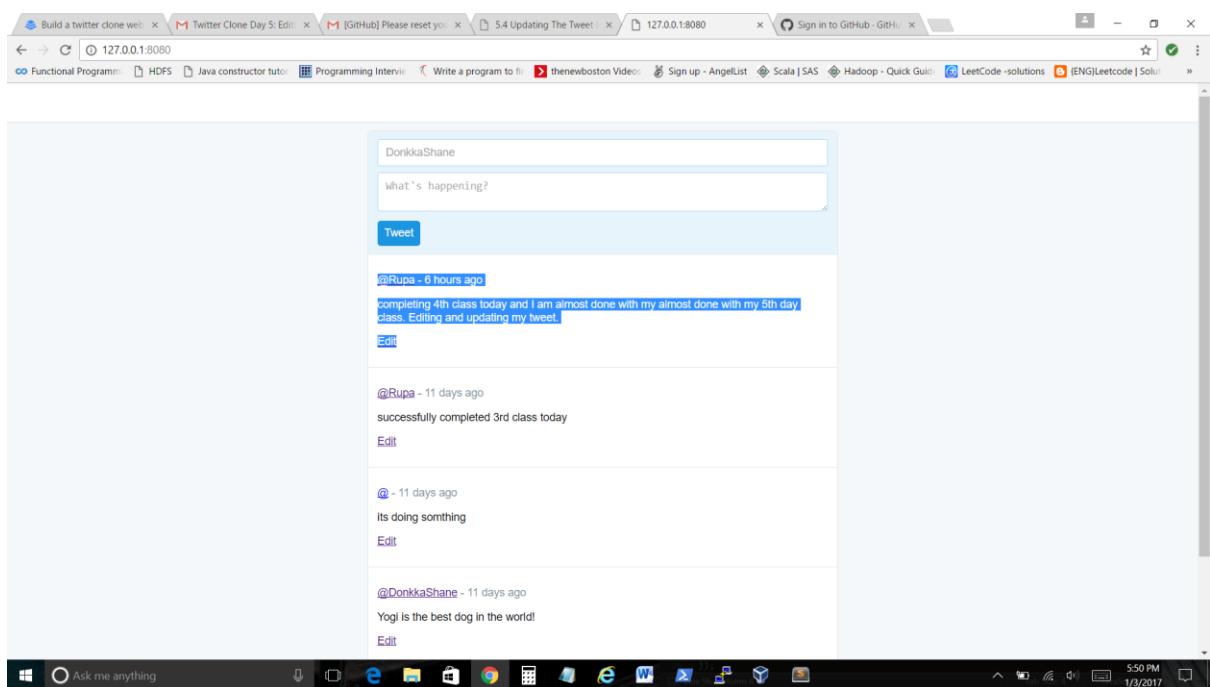


But unfortunately it can't post now for that we need to work on the coding part to post the tweet.

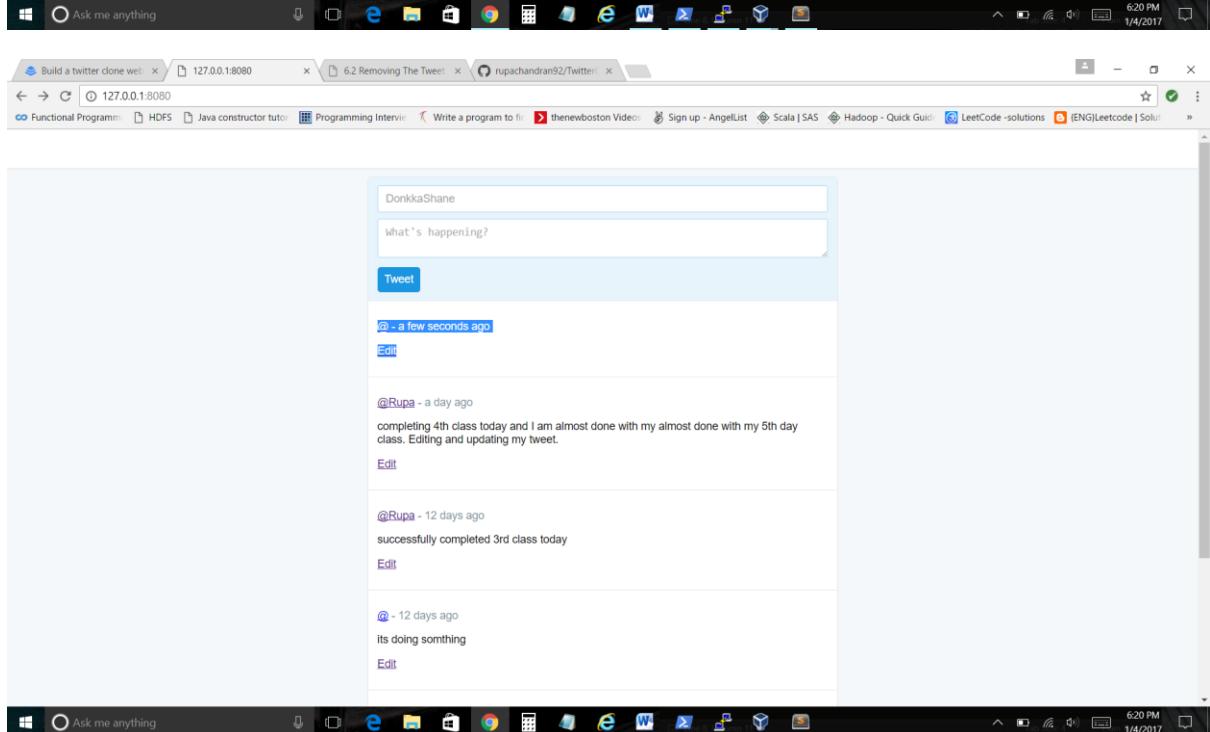
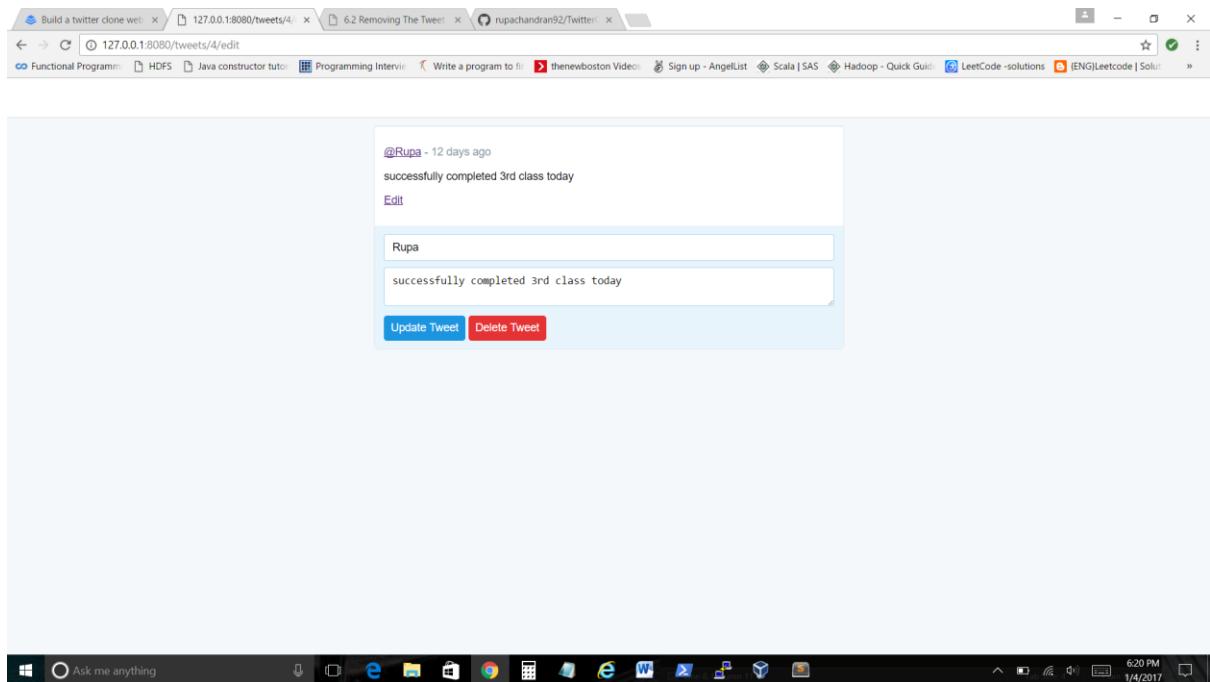


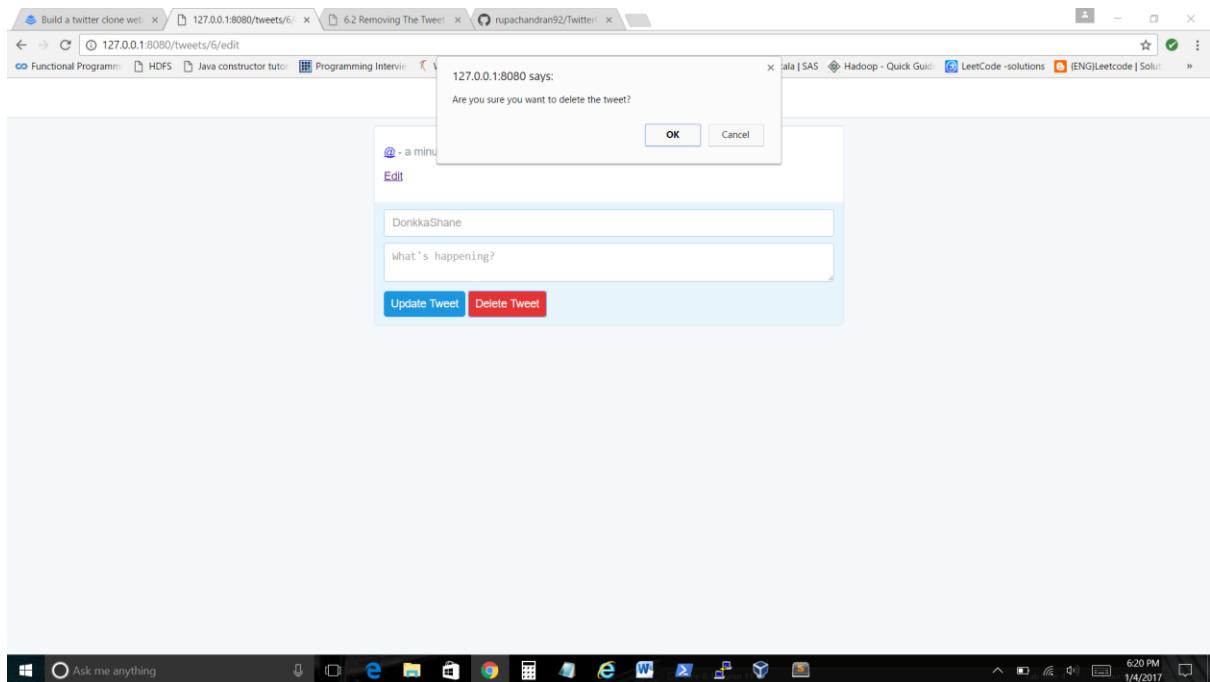


It worked



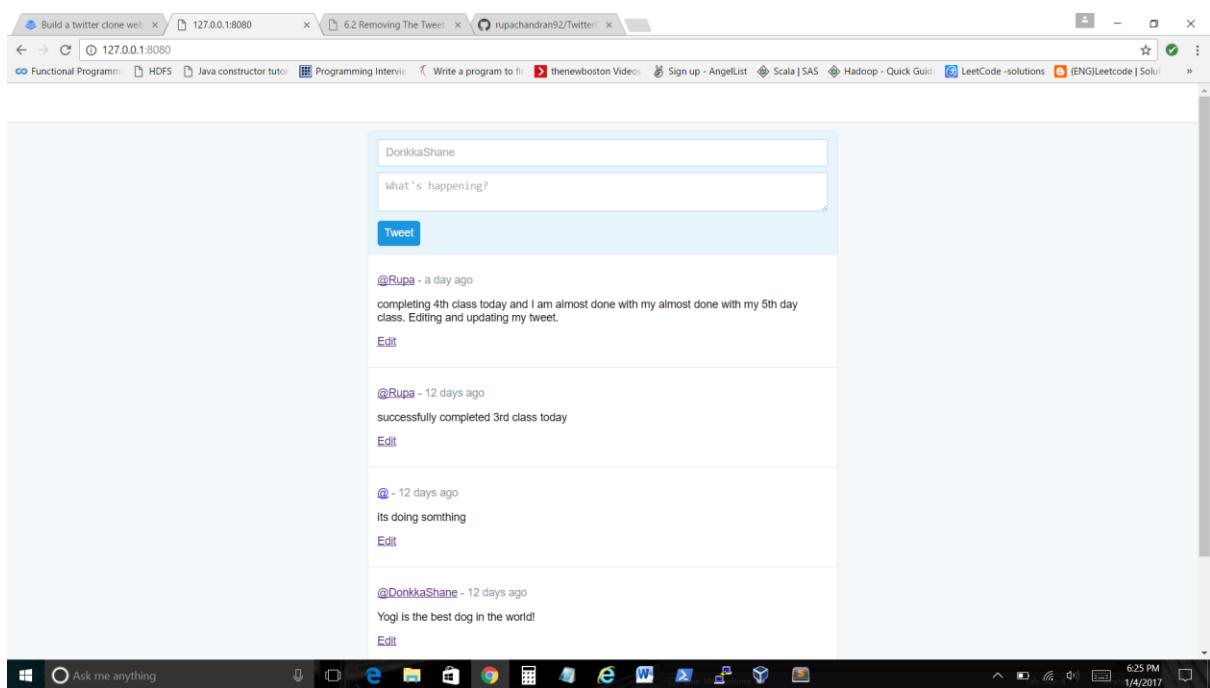
Adding the delete button

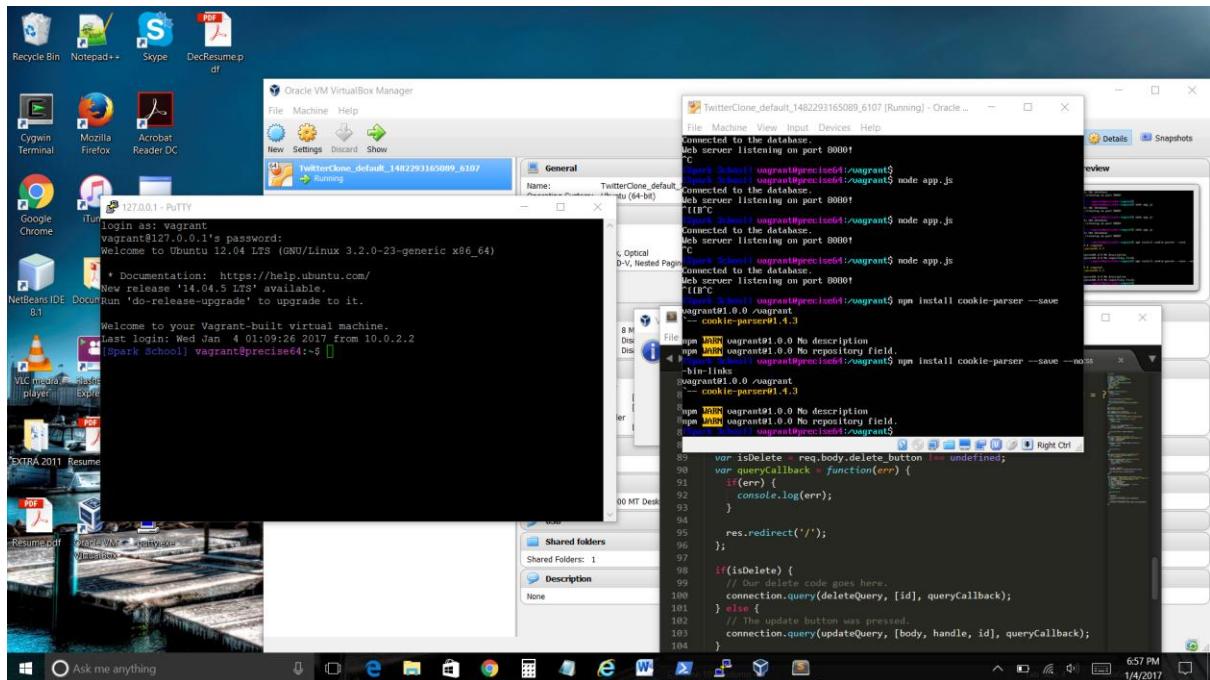




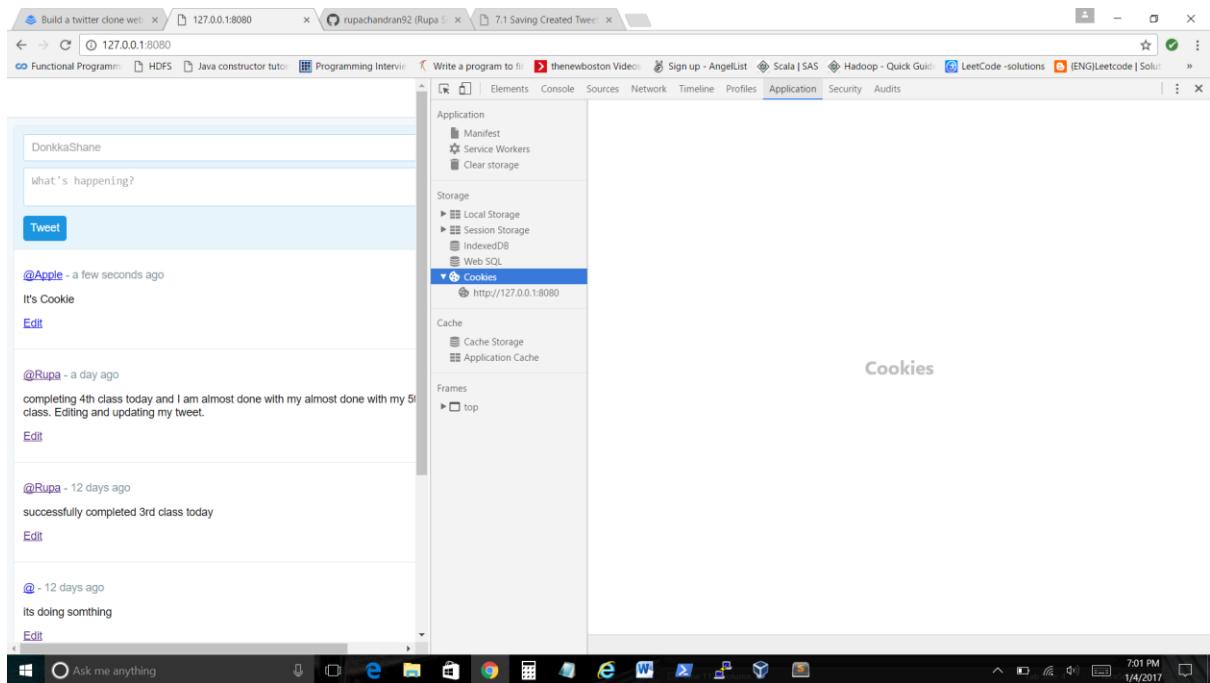
I clicked delete button and it opened the pop-up saying are you sure, I clicked okay but its not working because we didt write code yet for that. Now we are going to do that.

Now the empty tweet got deleted





Right click on webpage and click inspect and look for the cookie in the application



I tweeted once

The screenshot shows a browser window with several tabs open. The active tab is titled "7.1 Saving Created Tweet". The developer tools Network tab is open, showing a table of stored items. One item in the table is a cookie named "tweets_created" with the value "%3A%5B%5D". The cookie is associated with the domain "127.0.0.1" and path "/". The "SameSite" attribute is set to "Session". Other columns in the table include Name, Value, Domain, Path, Expires, Size, HTTP, Secure, and SameSite.

I added created tweet ids to a cookie, but right now, we aren't checking these ids to see if the user can edit the tweet. We are going to use middleware to do this.

Middleware is simply some code that gets executed before our route gets executed. This is useful for things that need to happen on every request like logging and user authentication. We are already using cookie-parser and body-parser middleware that parses cookies and the request body on every request.

The screenshot shows a browser window with several tabs open. The active tab is titled "7.2 Creating User Authentication". The page displays a timeline of tweets. One tweet from user "@HI" is visible, showing the text "hey" and an "Edit" link. Below it is a tweet from user "@Apple" and another from user "@Rupa". The interface is similar to a social media platform like Twitter.

Restart your server and let's test this. Any tweet that was created before we added cookies should redirect you to the homepage when attempting to edit. If

you create a new tweet, and then try to edit it, you should see a form to edit the tweet. The above screenshot was tested.

Hiding the edit button:

I implemented our middleware to restrict users from accessing tweets they didn't create. We are going to remove the edit tweet link for tweets that the user didn't create.

