COSC349 Assignment 2 Report

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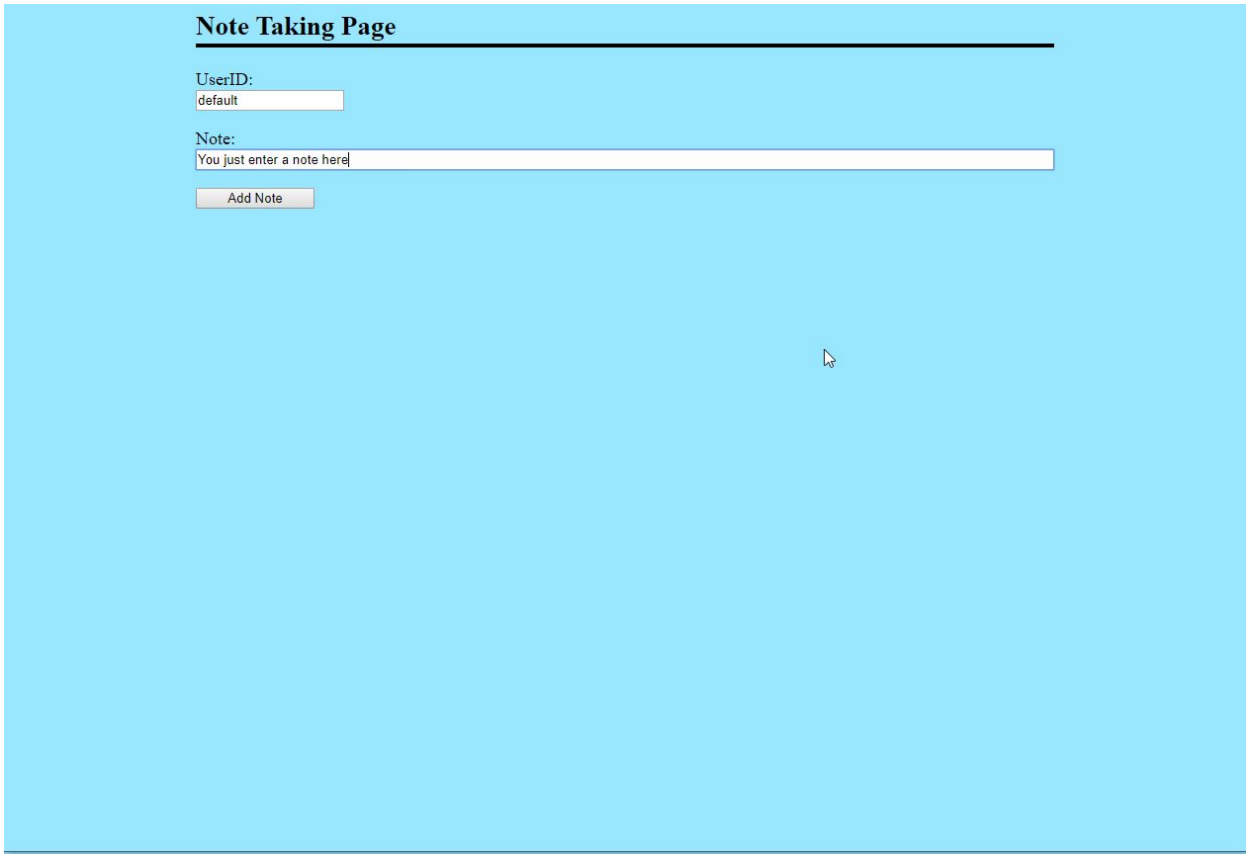
How I deployed my application:

Install Vagrant (https://www.vagrantup.com).
Open Windows Powershell and run command:
"vagrant plugin install --plugin-version 1.0.1 fog-ovirt"
"vagrant plugin install vagrant-aws"
In .aws put in your aws account details credentials into credentials.
Create a keypair in aws under network and security. It should prompt a file to download.
Move the file into .ssh and in Vagrantfile, set aws.keypair_name and the override.ssh.private_key_path to your keypair
Choose instance type. (I would keep it at t2.micro)
Create two security groups in aws:
The first one is to allow access to ssh
Set inbound type ssh and the source as 0.0.0.0/0 and another as ::/0
Set outbound type as all traffic and source as 0.0.0.0/0
The second security groups is to allow access for web
Set inbound type to HTTP and another one to HTTPS. And for each of the types, set the sources as 0.0.0.0/0 and another as ::/0
After creating the two security groups, put the two security group IDs into vagrant file for aws.security_groups
For subnet ID, I created one in aws under VPC.
For my AMI, I went to: https://cloud-images.ubuntu.com/locator/ec2/ to find a suitable one.
Then run "vagrant up" from Powershell after configuring Vagrantfile
To view webpages, go to EC2 instances in aws and open either the Public DNS (IPv4) or the IPv4 Public IP
Now to set up a Database, go to aws and choose your prefered database from RDS (I used mysql)
After the database finishes setting up its instance, you need to go into the folder www and into the sub directories to get up the $dbhose as the endpoint, the username as the one you used to make the database as well as the password.
Then you need to create the tables, I used ubuntu to do this. Install mysql with "sudo apt-get update" then "sudo apt-get install mysql-client"
The command to get into your database is "mysql -h yourendpoint -P 3306 -u yourusername -p", it will prompt for password.

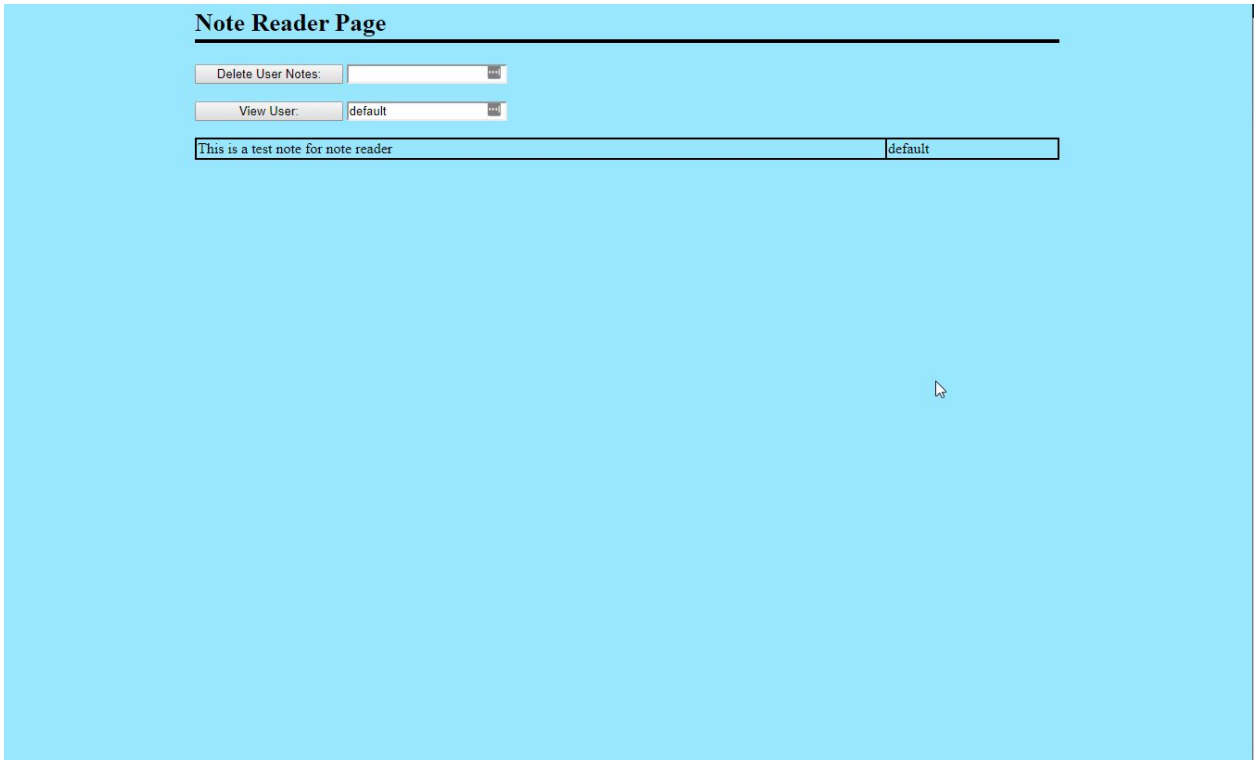
Create the database notes with "CREATE DATABASE notes" and use it with "USE notes"
Then to create the table for webNotes "CREATE TABLE webNotes(noteID int(11) NOT NULL auto_increment, note varchar(100), userID varchar(9) DEFAULT 'default', primary key(noteID));"

How to reach my application:

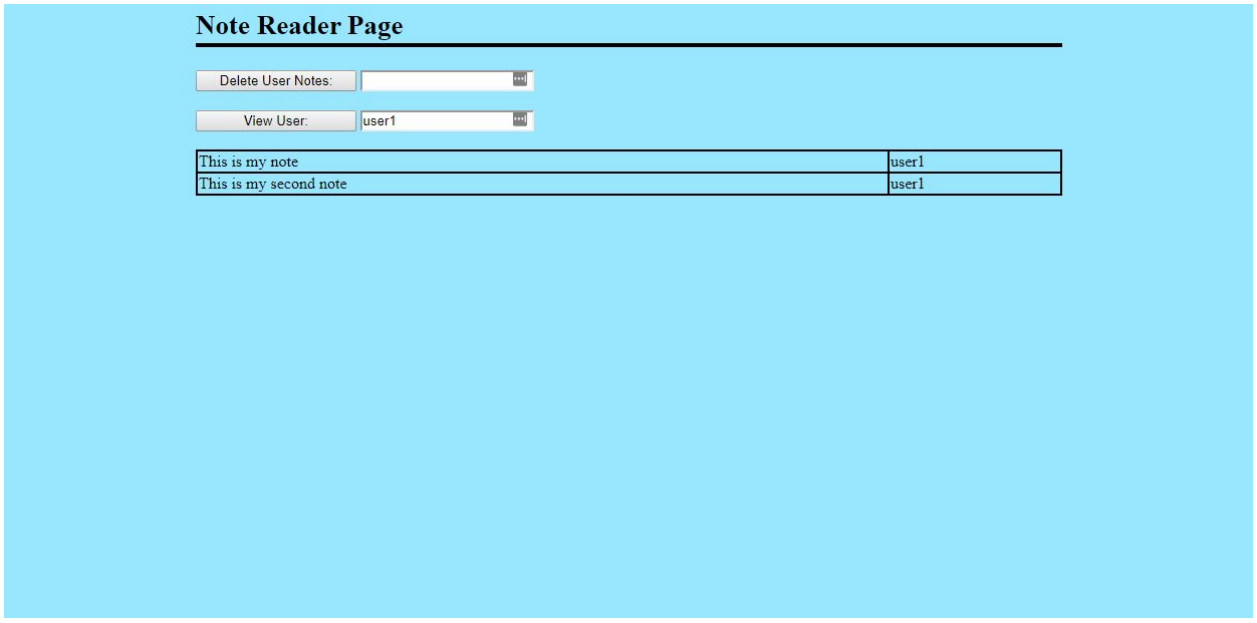
http://ec2-3-86-162-0.compute-1.amazonaws.com/taker_index.php
http://ec2-54-211-203-27.compute-1.amazonaws.com/reader_index.php



The user ID is set to default as default. The notes that are set to default are viewable to everyone. And the notes that you set to different user IDs, only you know what the notes are and to those that know your user ID is able to access it as well.



For the note Reading page, the notes that are set to default user are shown. To view a specific users note, you enter it in the text field next to view user. You are able to delete all notes to specific users you know.



My choice of service and how it is used:

I'm using two ec2 t2.micro as two web servers and one RDS MySQL as the database. I used these services because they are cheap and they do the job that I want it to.

The design of my application:

The design is to have one web server that inputs data into a database server, then the second web server reads the data that it queries out from the database server.
The design of this application was completely designed by me.