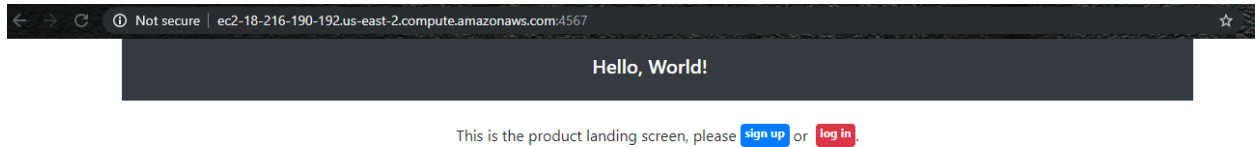# Cloud Computing FS 2019 – HW1

Sample Workflow

1. The application is available at port **4567** on this ec2 address: http://ec2-18-216-190-192.us-east-2.compute.amazonaws.com:4567. So, when you visit http://ec2-18-216-190-192.us-east-2.compute.amazonaws.com:4567, you will see the web app homepage, as shown below –

2. If this is your first visit to the web app, you'll need to sign up. Click on the "sign-up" button, you will see this screen next, where you can enter your username and password (no spaces!), and hit "Submit" –
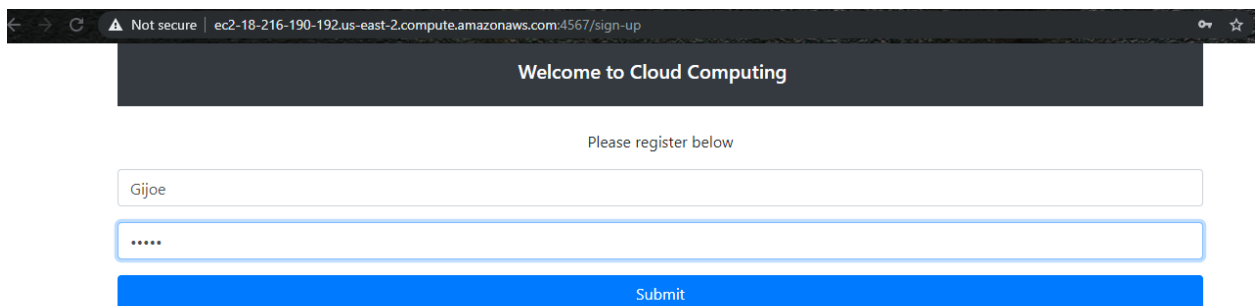
3. At the next screen, you will now be able to see your username in the top bar that you entered previously, indicating that you are logged in. Here you will be able to enter your details (first name, last name and email). Once done, click submit –

4. In the next screen, you will be shown your details (First name, last name, e-mail) that you entered in the previous step. Here, you have the option of returning back to the homepage, or uploading a file –
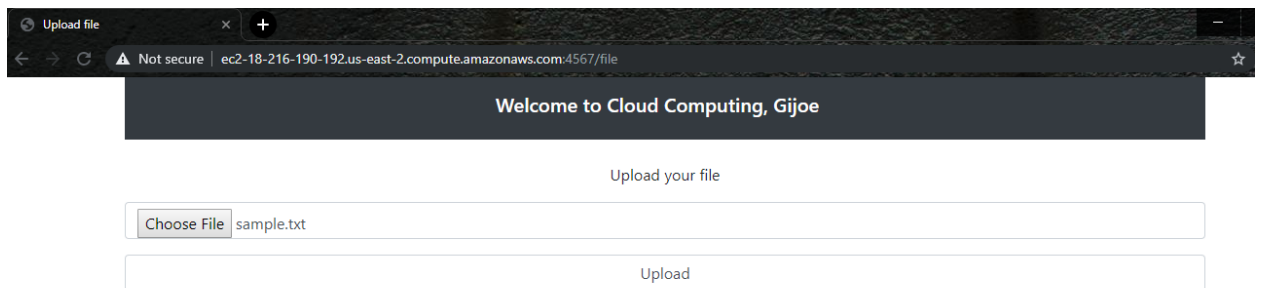

5. If you click on "Upload a file" button, you will be taken to the next screen, where you can upload a text file –
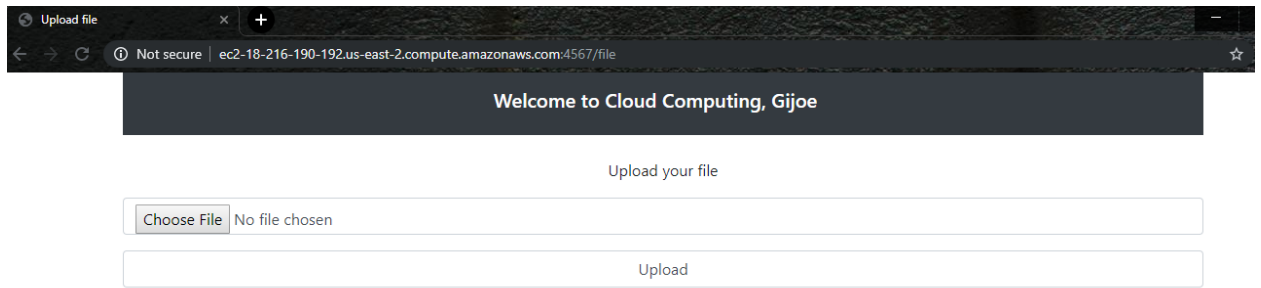
6. Here, you can upload a file. As an example, I made a **.txt** file (**sample.txt**) with a few words and selected it with the "choose file" button –


7. When you hit "Upload", you will be taken to the next screen, where you will get a confirmation message indicating that the file (along with the filename) was successfully uploaded, along with the number of words in the file. Here, you also have the option of downloading the file you just uploaded. Click on the "download file" button –
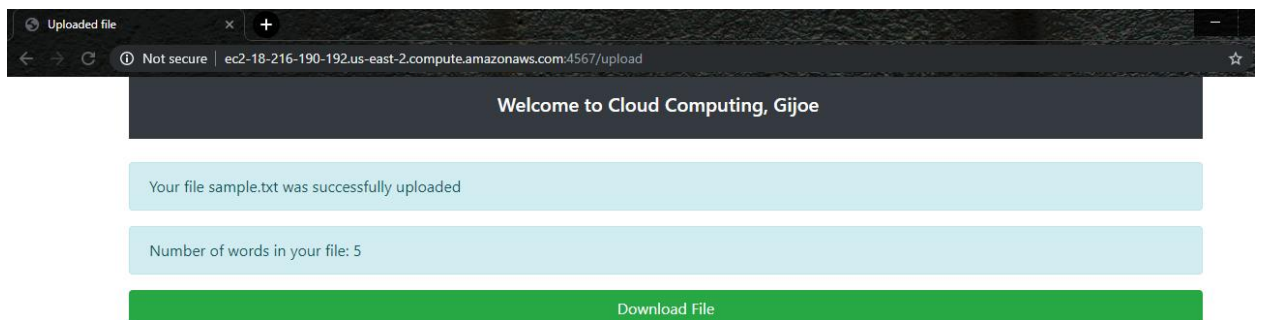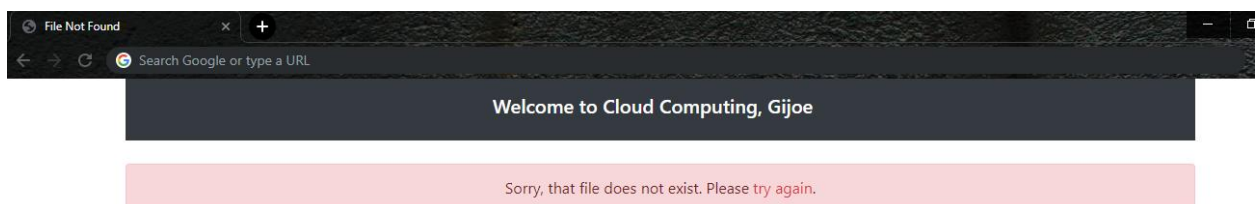
8. In the next screen, you need to enter the name of the file of you want to download. In this case, the filename was **sample.txt** –
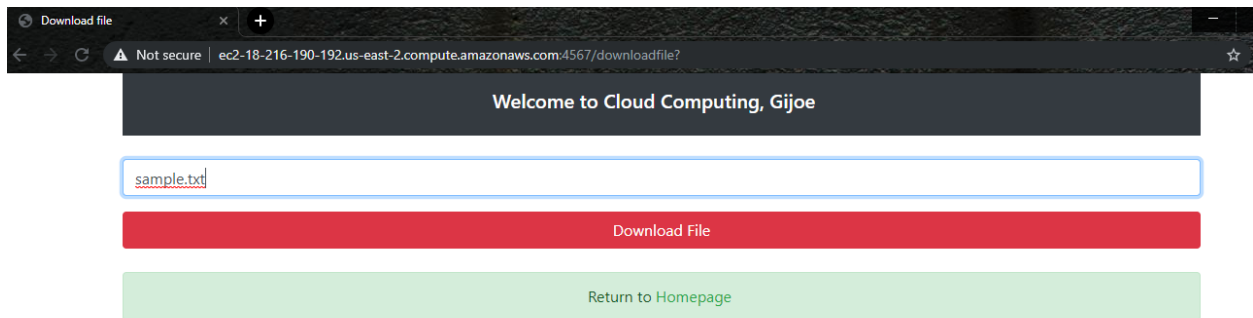
9. Enter the filename and click "download file". You'll get an option to save the file with a name of your choice in your local machine –
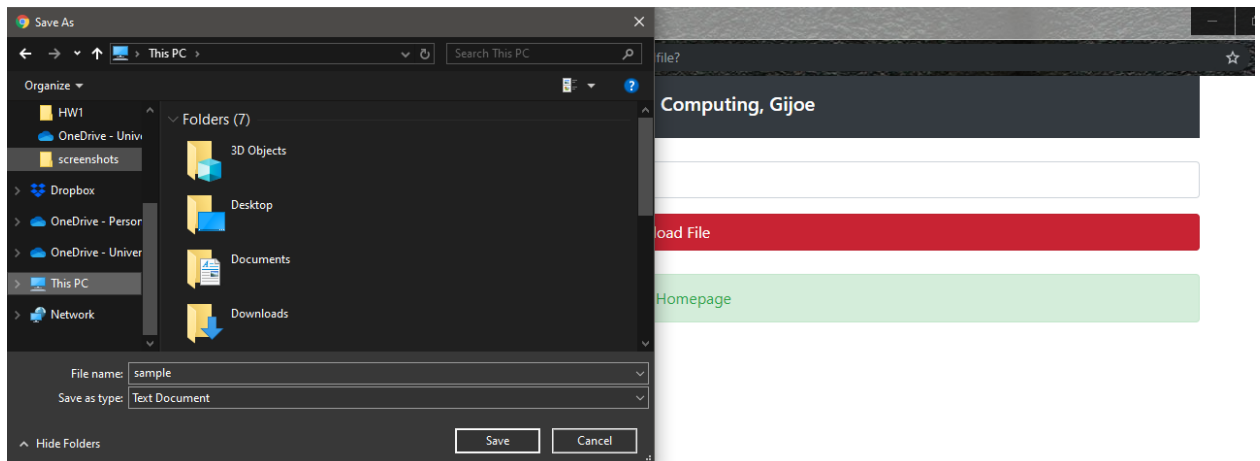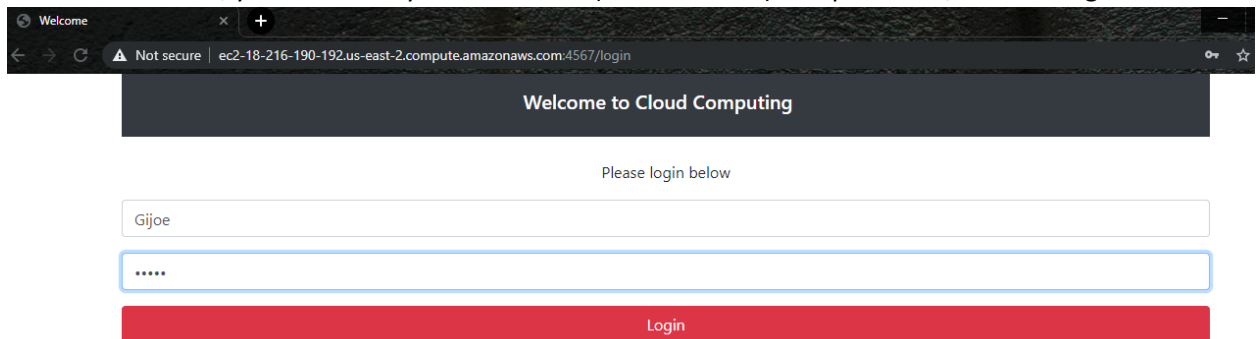

10. Note: If your file is not found, you will get an error notification screen. Click on the "try again" link to start over –

11. When you have saved the file, you can click the "return to homepage" link to go back to the homepage, if you wish. Here, now that you have signed up, you are able to **log in** with your **username** and **password**. Click the "log in" button.

12. In the next screen, you can enter your username (case sensitive) and password, and hit "login" –
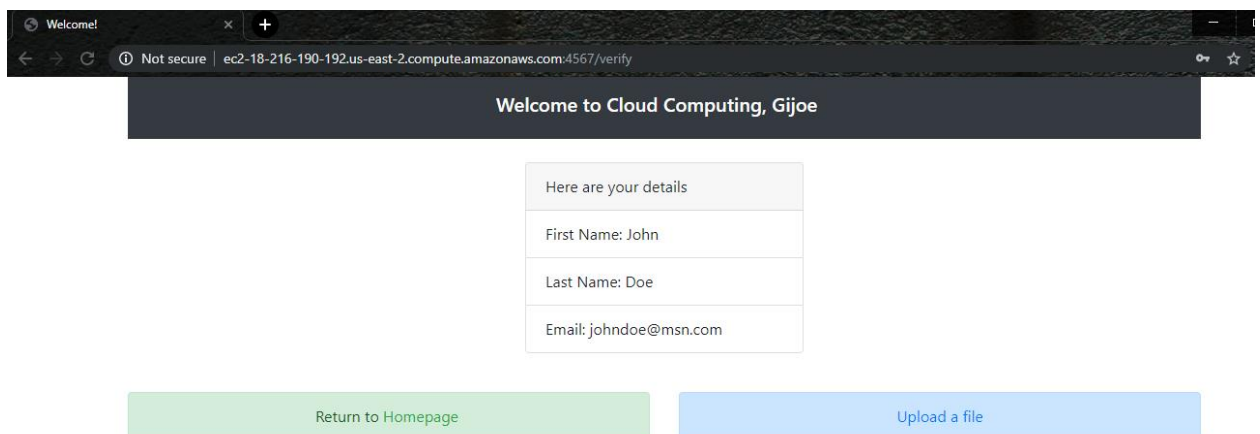

13. If your login details are correct, you'll be able to see your other details (first name, last name, email) in the next screen –

14. If your login details are incorrect, or if you try to login without first having signed-up, you will get an error notification –
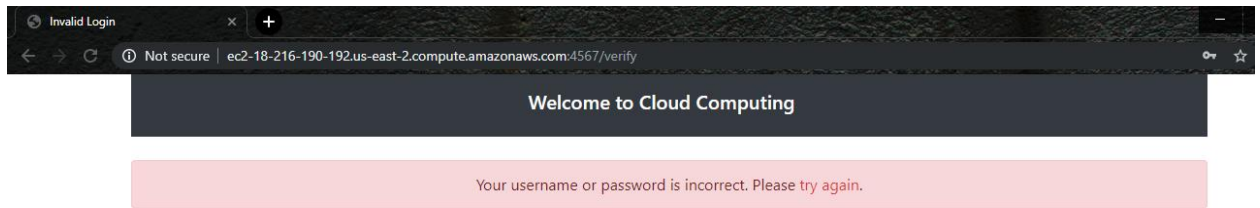
15. Click on the "try again" link to return to the homepage and start over.

Notes:

1. There are no validations built in, other than the ones described above.
2. There is no extra functionality implemented, other than the ones described above and the ones listed in the requirements on Blackboard.
3. There is a bug in the word count function, which in some cases, shows an incorrect word count. This is due to extra, unknown characters being added to the file at the time of uploading the file. Adding the necessary encoding of UTF-8 hasn't solved the issue, and the microframework (Spark) I'm using, does not have very good documentation on this.
4. If at any point, you run into an **Internal Server Error**, please visit the homepage (http://ec2-18-216-190-192.us-east-2.compute.amazonaws.com:4567) again to start over.