Installing the Application
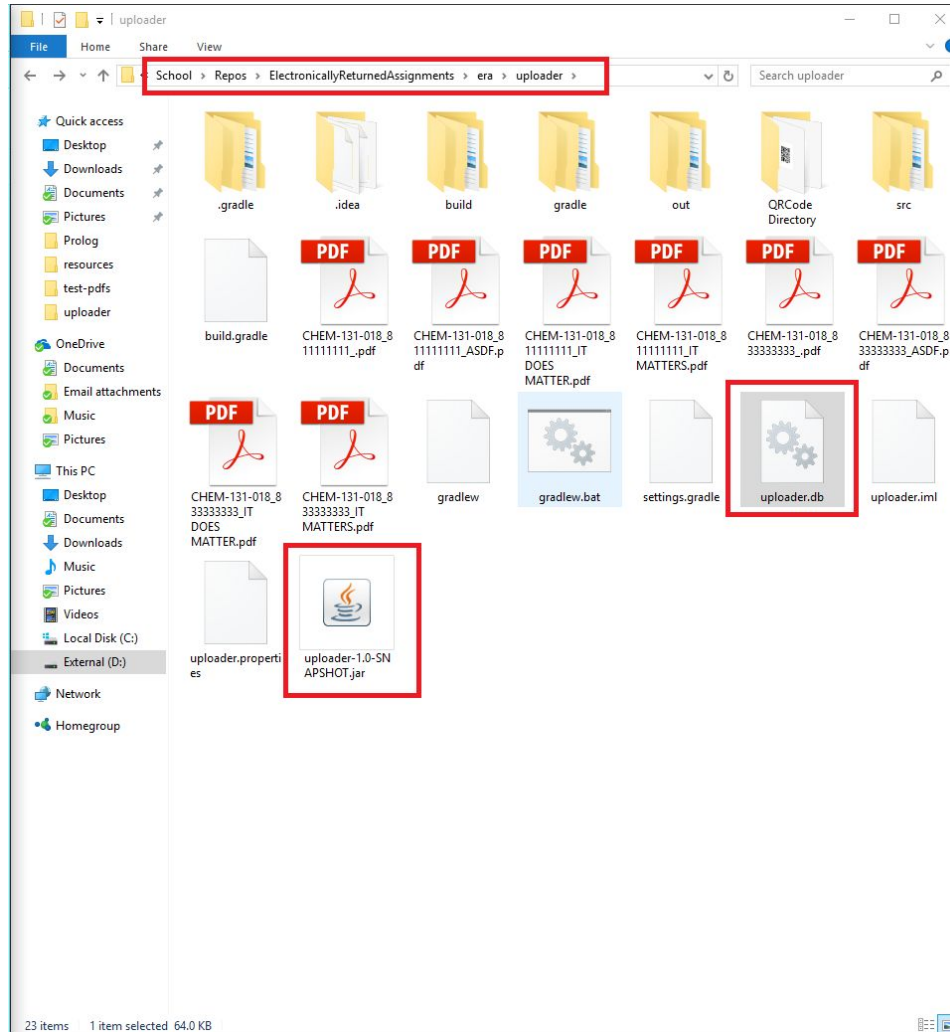
Prerequisites

My Assignments is ran on top of the Java Runtime Environment (JRE). We require JRE version 8 (aka 1.8). You can download Java 8 here: http://www.oracle.com/technetwork/java/javase/downloads/jre8-downloads-2133155.html. As of the time of writing this document, Java 10 has been released. However, Java 10 has a limited support cycle, so its usage is not recommended. The most recent Java 8 version, as of the time of writing this document, is 8u152

The Zip Archive

Once you have ran through the installer for Java 8, you are now ready to run My Assignments. As of writing this document, My Assignments is distributed in a single zip archive. The zip archive should consist of four files: this README, uploader.properties, my-assignments-uploader-v1.jar, and uploader.db. My-assignments-uploader-v1.jar is the executable used to run the application. Uploader.properties is the configuration file for running my-assignments. It is not recommended that you edit this file. Uploader.db is where we store assignment metadata. You can extract the Zip Archive in any folder that doesn't require admin privileges to access. An example of a folder that doesn't require admin privileges is the "Documents" folder.

Using the Application

Running the Application

Make sure that when you try to run the application that the .jar file is in the same directory as the uploader.db file and uploader.properties flie. Currently they need to be in the same directory for the application to run, so if you are double clicking on it and it isn't running, check this first.

General Workflow

With the application now open you should be on the home window. From here we will walk through the general creation of a course, creating an assignment, and then scanning in pdfs with QR codes placed on them. In the top right corner, there is an option to use our application in either Offline or Online mode. If the SIUE server is still

up, the application should be used in Online mode.

When setting up your Document Processing application for the first time you will need to enter your credentials here so that your version of the app will be able to communicate and upload to the server so that you and your students can view your assignments.

You should receive your credentials from an already existing admin physically. ***Note: Please do not request for your credentials to be sent via email or text as neither of these channels are secure.***

Creating a Class

From the home GUI, click the leftmost button labelled "Create Class". This will open up a new window for Class Creation. From here you will select the **Term** (Fall, Winter, Spring, or Summer) your class will be taking place in, as well as the **Year**. You will also need to either select an **Instructor** from the list, or click in the text box and type in a new teacher. After you type in the new teacher's name and finish creating the class, the new teacher will be added permanently to the list. The "Browse Files" button is used for selecting the course's roster that should be stored in a CSV (comma separated value)

	Navigation Menu		Current Mode: Online

Create Course

Home

Student Name	Student ID	Course Name

Instructor: Instructor... ▼

Term: Term... ▼

Year: Year... ▼

Browse Files   Chosen File

Create Course

No content in table

file that you are given via Blackboard.

After you have filled out each of these fields you can now click the "Create Course"
button and you should see the course appear in the box to the right along with all of the
students enrolled.

Creating an Assignment

From this screen, give the assignment a name, pick the course for which the assignment is for, and specify the number of pages that the assignment will have, this will create the corresponding amount of QR Codes for each student enrolled in the selected course. Currently, you can create multiple assignments at once, and all of the assignment QR codes will be added to the same PDF file for the student. If a course "Example Course" had two students in it, "Lana" and "Pam", and the Assignment length was selected as 2, then 2 QR Codes would be made for "Lana" and 2 QR Codes for "Pam". After filling out all of the fields, click 'Create Assignment'. The QR codes are saved in a PDF file in the format based on whichever Template you choose, either Address Labels or Shipping labels. These PDF files will be saved in the 'assignments' directory.

Processing an Assignment

After creating the QR Codes for the Assignment the next step will be to put those QR Codes onto the documents you want to scan in, take those documents and create a scanned pdf file.
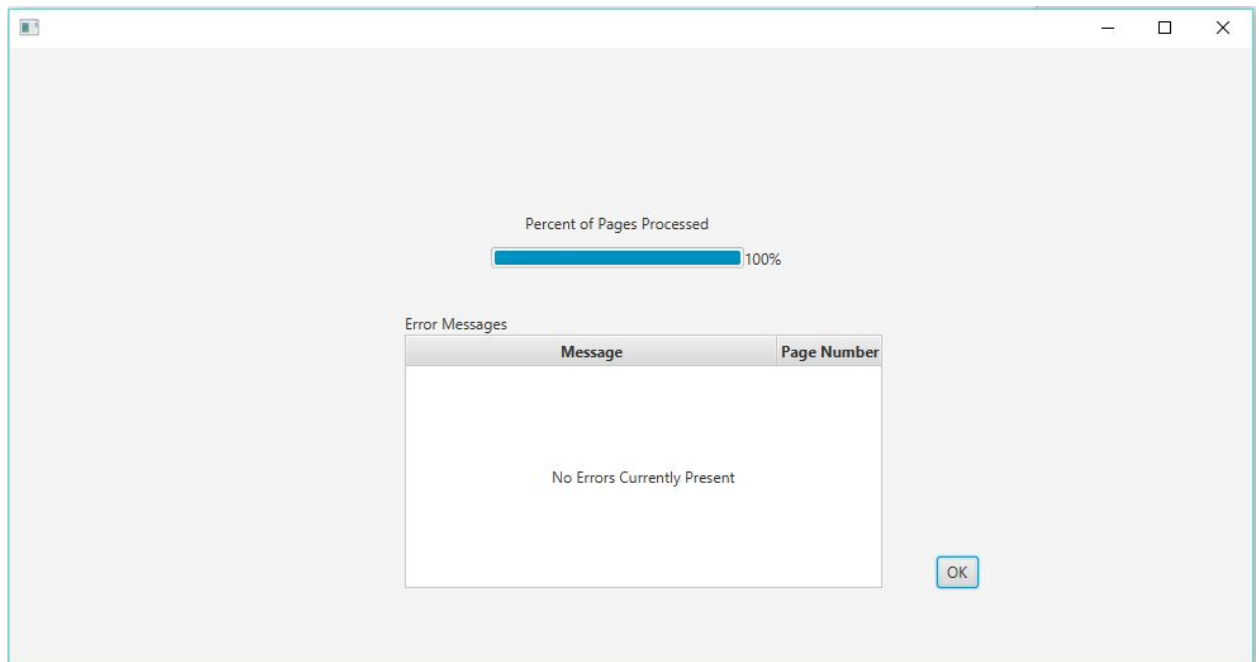

On this window make sure to give the Assignment you are scanning in an appropriate name, select the course it will be associated with, and then use the "Browse Files" button to find the scanned in document you wish to have processed. After all fields are filled out hit the "Process" button.
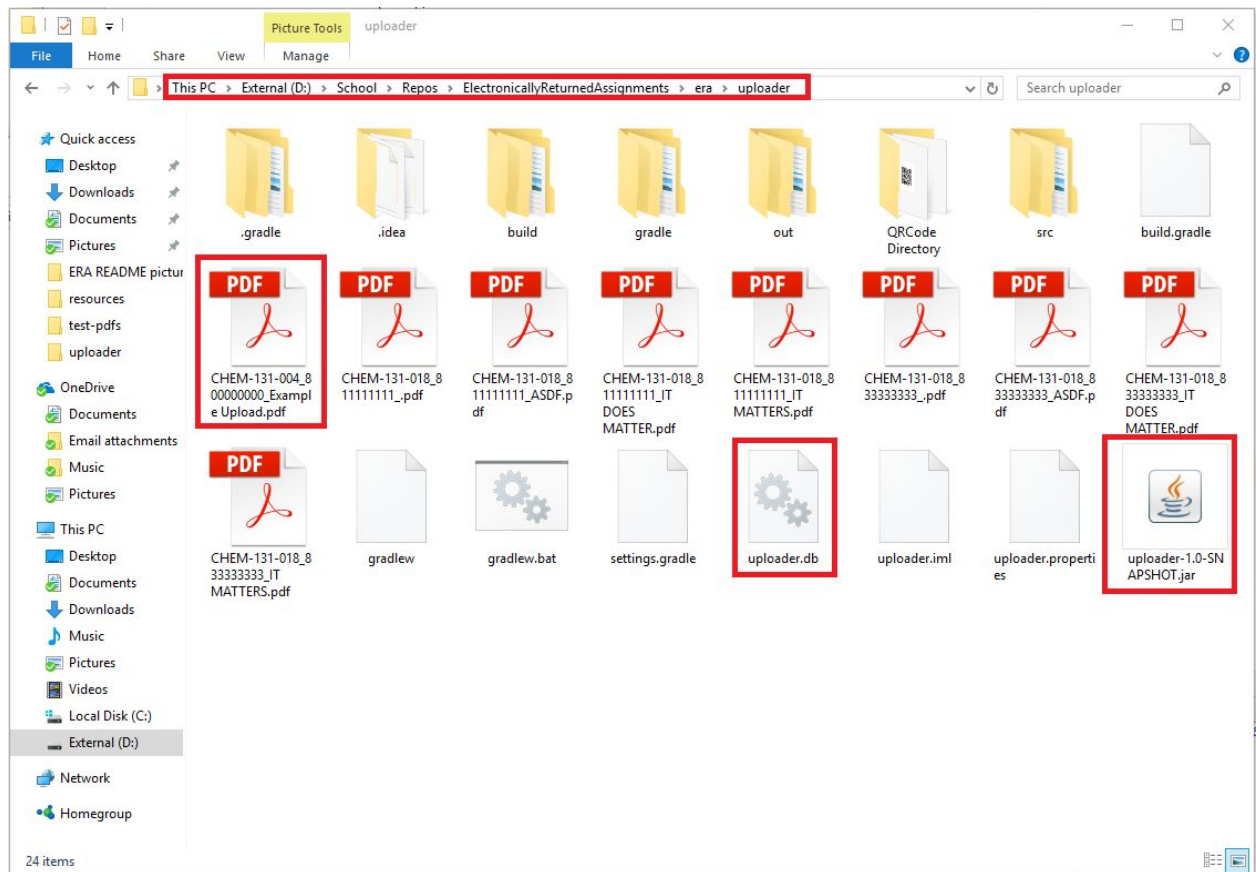
Once you hit the "Process" button and the following window should appear.

This window will display the progress of your file as it is processed within the system.
If an error occurs while processing a page the page number and corresponding error
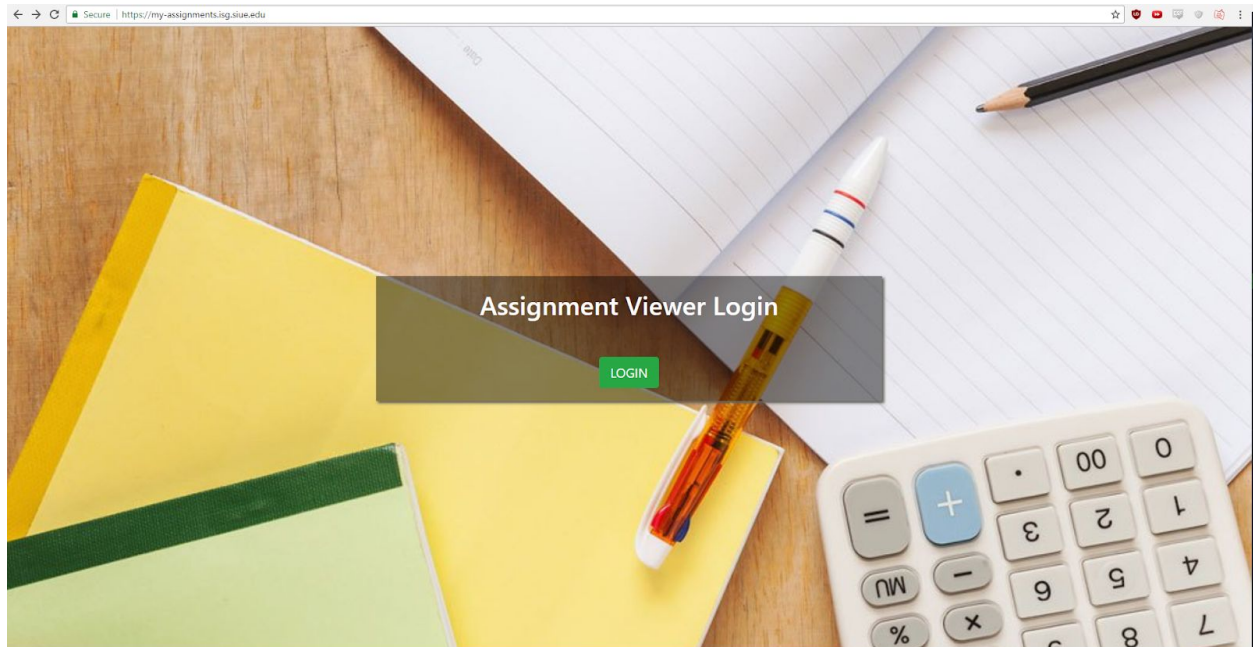message will be shown in the below box.

Once your pdf document has finished processing you should be able to find your now
broken up assignments associated with each student in the same working directory as the
.jar file and uploader.db file. Below is a picture showing this. If the system is in 'Online'
mode, the documents will also automatically get sent up to the server, where the students
should be able to log in and view them.

File   Home   Share   View   Manage

This PC > External (D:) > School > Repos > ElectronicallyReturnedAssignments > era > uploader

Search uploader

Quick access
- Desktop
- Downloads
- Documents
- Pictures
- ERA README pictur
- resources
- test-pdfs
- uploader

OneDrive
- Documents
- Email attachments
- Music
- Pictures

This PC
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Local Disk (C:)
- External (D:)

Network

Homegroup

.gradle   .idea   build   gradle   out   QRCode Directory   src   build.gradle

CHEM-131-004_8 00000000_Exampl e Upload.pdf

CHEM-131-018_8 11111111_.pdf

CHEM-131-018_8 11111111_ASDF.p df

CHEM-131-018_8 11111111_IT DOES MATTER.pdf

CHEM-131-018_8 11111111_IT MATTERS.pdf

CHEM-131-018_8 33333333_.pdf

CHEM-131-018_8 33333333_ASDF.p df

CHEM-131-018_8 33333333_IT DOES MATTER.pdf

CHEM-131-018_8 33333333_IT MATTERS.pdf

gradlew   gradlew.bat   settings.gradle   uploader.db   uploader.iml   uploader.properti es   uploader-1.0-SN APSHOT.jar
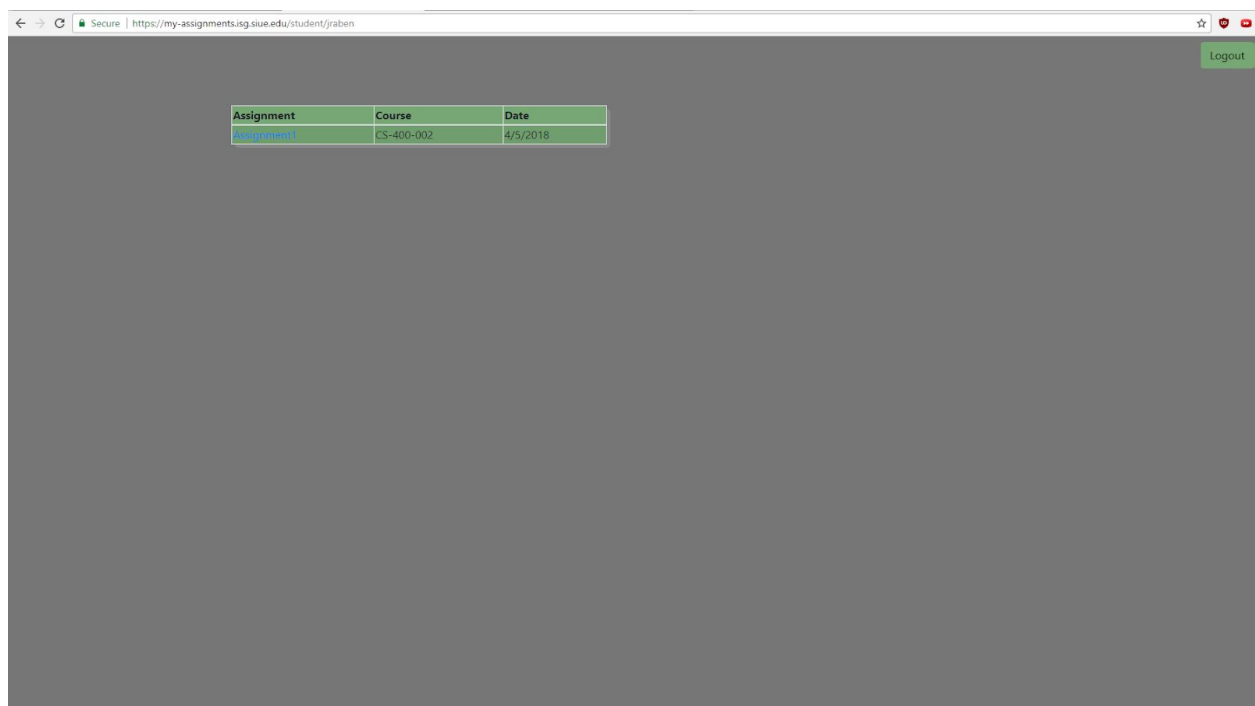
24 items

6) Student View Page

The URL to visit the server is *my-assignments.isg.siue.edu*
Below is an example of the web page that will be displayed when either an admin or a student wants to access the server.

Upon clicking login a user will be prompted to log-in to the application with their SIUE credentials. After logging in a student will see a page similar to the one below.
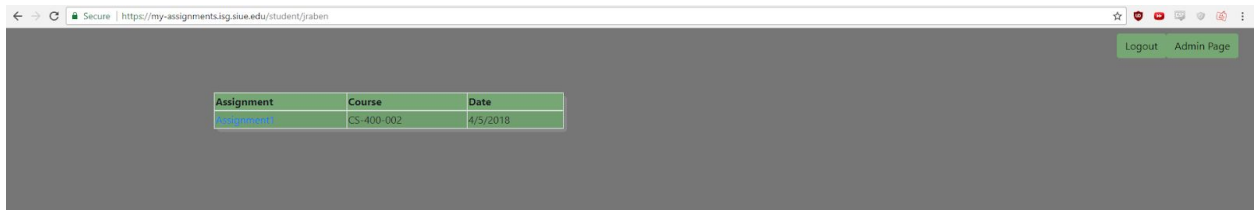
Below is a better representation of a table a student will see with all of their uploaded assignments on the server. The most recently uploaded assignment will be displayed at the top with older assignments being pushed towards the bottom.
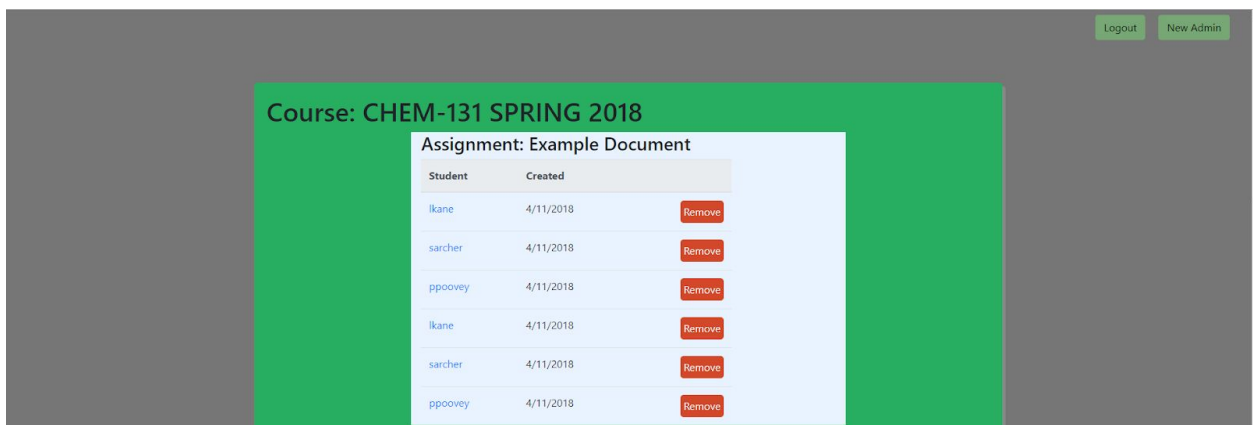
Assignment	Course	Date
Assignment1	CS-400-002	4/5/2018

7) <u>Admin Page</u>

The only difference in an admin and a student landing page is the admin button that is displayed at the top right next to the logout button.
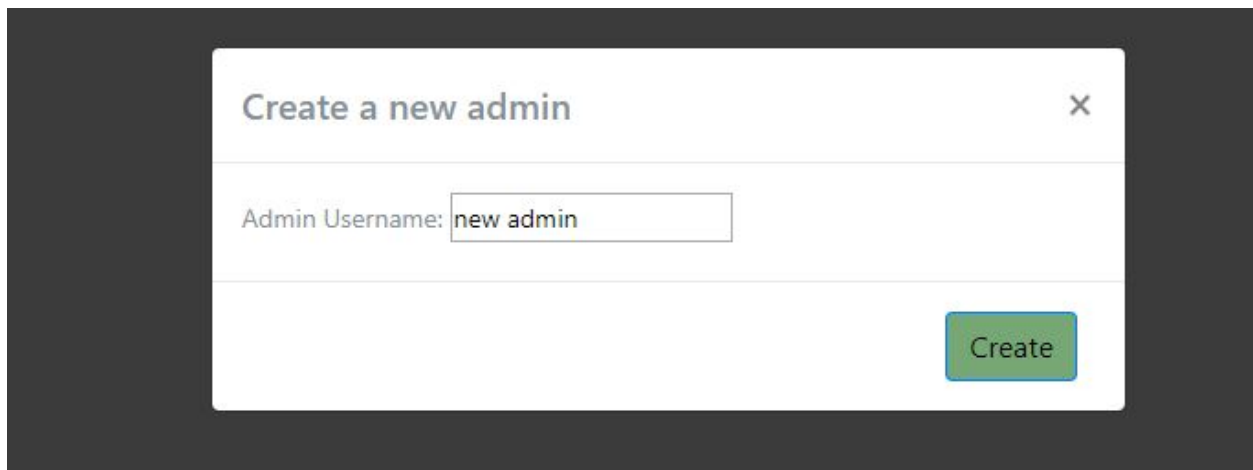

Below is an example of what the admin page looks like.

There are separate sections that group courses, with assignments being grouped within courses. Each student assignment is listed in the table for that particular assignment and any admin can remove said assignment from the server. ***Note: If an assignment is removed there is no getting it back! In order for that student's assignment to be put back onto the server it will need to be rescanned in on an uploader.***
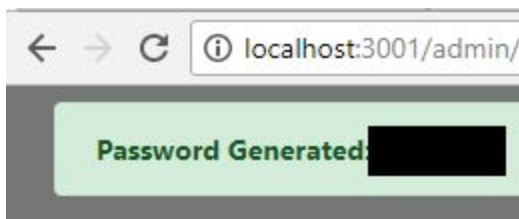
Below is what pops up when a current admin clicks the New Admin button located next to the Logout button.

Here a current admin will enter the username of the new admin. *Note: the username does not have to be SIUE credentials but CAN be if the new admin prefers it to be so.*

After clicking create a confirmation bar will appear at the top of the page listing that admin's password that they will need for their version of the Processing Application. *Note: Without these credentials the Processing Application for the new admin will not be able to communicate or upload assignments to the server. It is advisable to write down the new admin's credentials.*
The password below has been obscured for security reasons, but an actual password will be displayed on the webpage.

IMPORTANT
DO NOT COMMUNICATE THE NEW ADMIN'S CREDENTIALS DIGITALLY!
Please deliver credentials physically, do not email them as email is not encrypted. This will help ensure that only the new admin and their creator know the credentials that can upload to the server.

9) Deploying the Server

If the server ever goes down, you can run the deploy script we have created. **Note: If you use the 'wipe' parameter while running the script, it will wipe the database and remove all assignments and remove all accounts admin status (besides Dr. Jones' admin status).** To run the script, open a terminal, go to the directory where the script is located ('deploy.sh'), and then type './deploy.sh deploy' or './deploy.sh wipe' respectively. **Note: There is a password required to run both of these scripts, you must edit each file and replace 'fakepassword' with the correct password for them to work. You will also be prompted 3 times to enter this password in the terminal.** Wiping the database first archives all assignments and compresses them. You can retrieve this file from the server using WinSCP or FileZilla.

10) Archiving the Server

To archive the assignments, you can run the following two commands while logged into the service account on the server.

tar xzcf assignments.tar.gz *.pdf
rm *.pdf

This will create a 'tar file which you can use WinSCP or FileZilla to get it back to your local machine.