



## QST Admin Manual

- Always check you have the latest version by going to <https://sourceforge.net/projects/qstonline/>

### QST Security

- SSL must be enabled for true security.

A user can only be logged in once.

Each time a user logs in their user id and randomly generated session id are sent with each interaction. If another person logs in with the same user credentials (username and password), the first person's login is invalidated because a new session id was created for the second login. Only the user that started a QST can finish it.

In a proctored situation, Post the QST just before the student(s) can start, and check they have begun it. If you see they have started it, no one else can intervene.

If you are having issues with QST, either contact us at [qstsupport@shaw.ca](mailto:qstsupport@shaw.ca) or if you want to troubleshoot yourself, Search for "Trouble shoot" and uncomment (remove #) from the beginning of the line below it, save and restart Apache:

```
#print"name= $name value= $value, /";
```

This will print out the name/value pairs being passed to the program.  
The value that goes along with 'input' is the function being called in QST.

In Perl, 'print' is the debugger.

The error.log is a valuable place to get information on errors.  
Can be found under C:\Apache24\logs or /var/log/apache2

- Ubuntu - If you will have over 70 users attempting a QST (simultaneously) see Hardware\_and\_Performance\_Tuning.txt to change the settings in apache2.conf. and MySQL.

\* There is an android app for QST students, iPhone student users will need to click on Safari Browser on the homepage. If users are taking a QST on their phone and they do not have the app, they should use the Safari Browser link as it gives the same screen as the android app.

## Administration:

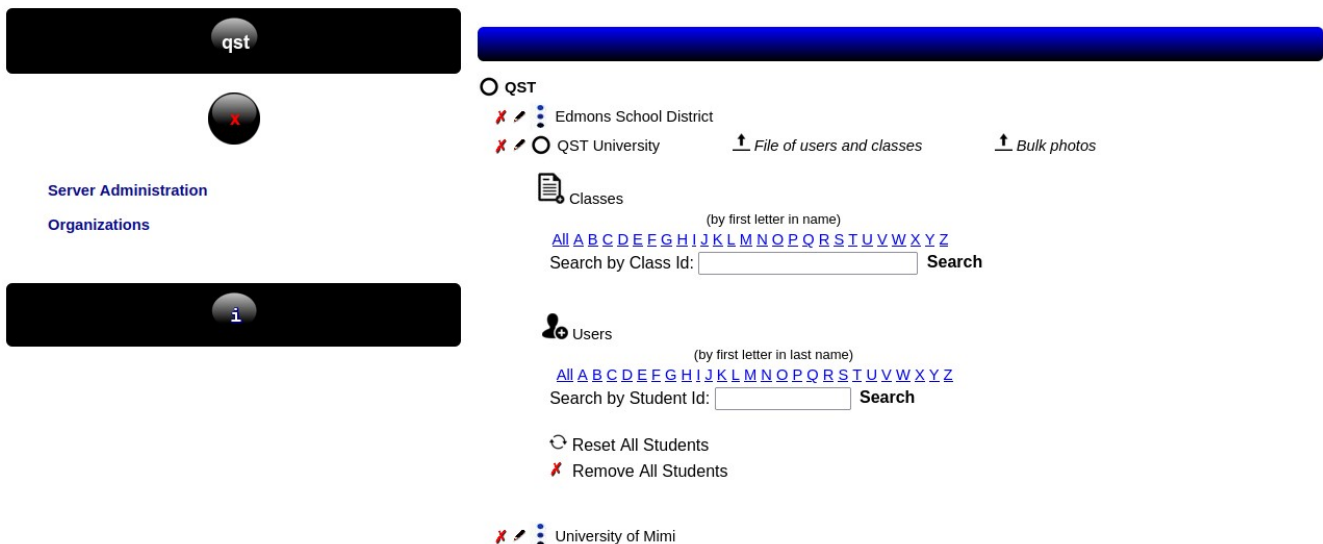
Use your admin username and password to sign in to your QST installation.



The first task is to change the admin password. Click on Server Administration. Click on Head Administrator and select Password. Change the password and Save it.

You will need to create an organization, class, instructor and student.

Follow the steps below, and after you have done them, log out, and login as the instructor. Now you will be able to begin making questions and qst's.



### Create an Organization -

Click on Organizations in the left panel, and then click on QST in the right panel.

Enter the name of your organization.

You may create as many organizations as you like.

Each organization will have it's own users (students, instructors, question bank administrators and possibly administrators).

You can create additional administrators, and they may have access to All organizations, or just to one organization you assign them to.

Click on the three dots in front of the organization you created to add/remove classes, students and instructors to the organization.



Users



Classes

Out, then Log In with the Instructors username and password.

After you have created an Instructor, Log

Each user created must have a **unique user name** within the QST installation. This applies across organizations, so one organization cannot have a user with the same username as another.

**Do Not re-use users.** When a user is created they are assigned a unique number. Changing the users name does not change their number (which is how they are identified in the system). Changing the users name does not create a new user.

**Changing the class name does not create a new class.**

When a class is created it is assigned a unique identifier within QST.

**Here you can also bulk upload a .csv file of users and classes for an organization.**

File format:

type,student\_id,first name,last name,username,password,class id,class name

Sample:

3,00125,Albert,Smith,asmith,password,Math-30-1,Math 30

*Explanation:*

The upload programs creates students /instructors and classes if not already there.

When imported, the program would look for a student (type 3) or an instructor (2), with a student id (00125), and a username (asmith).

If a matching student is not found, it will create the student with username (asmith) and password (password).

Next it will look for a class\_id of Math-30-1.

If a matching class id is not found, it will create the class, with a class name of Math 30 and a class id of Math-30-1.

Then it will add the student (asmith) to the class (Math 30).

\* If you have already created classes, and you want to upload students to them, put in the class id (cannot be 0) for the class and a 0 for the class name.

- in the file:

- student id's must be numeric, unique to that organization and max 10 digits  
or **set to 0 if not being used**
- First and last names may only be 40 characters
- there must be a class id, the id must be unique to that class
  - class ids max length 20
- there must be a class name (you are creating classes if they do not exist yet)
  - class names max length 80
- **usernames and passwords can only be alphanumeric**
- there must be something in each column

- if you have already created classes manually, make sure you gave them a class id, so you can then bulk upload students to them
- the upload checks to see if there are already classes with the class id and if so, adds the users to the classes.

Users must be in a Class so QST's can be made available to them.

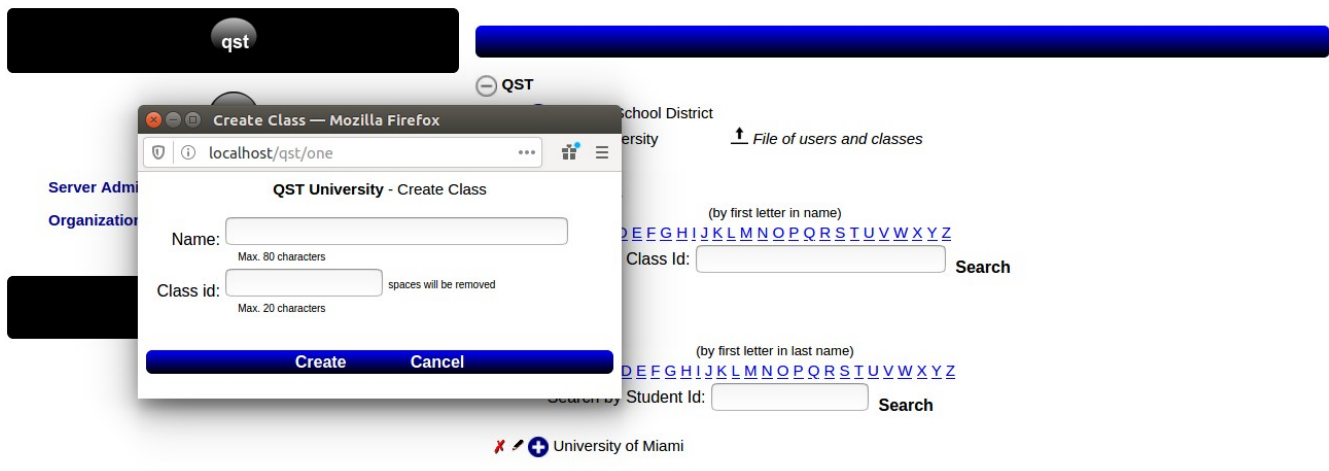
Instructors can create QST's without being assigned to a Class.

Question Bank Administrators can create folders along with questions in the Question Bank.

- Folders and questions are seen by all Instructors within that Organization.

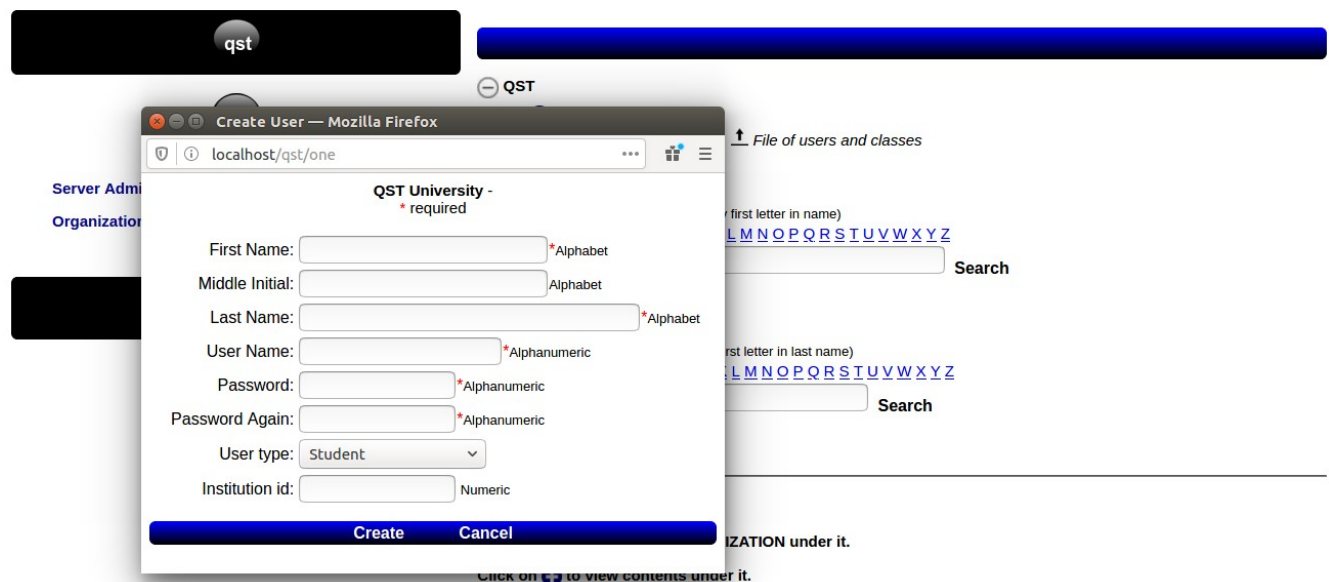
## Create Class:

Click on Classes



## Create User:

Click on Users



If you would like, create an Administrator to administer the organization.

Click on Server Administration in the left panel, and then click on Server Administrators in the right panel. Add the info. and select the Organization for the user to administer.

\*\* Organization Administrators can only administer a single organization.

## Viewing Classes:

Click on All in right panel under Classes

Cancel

QST University Classes

-- All --

- 1 - Biology 20 - Bio-20-1
- 2 - English 10 - Eng-10-1
- 3 - Introductory Class - 0
- 4 - Math 30 - Math-30-1
- 5 - Using QST - Advanced - 0

QST

Edmons School District

QST University File of users and classes

Classes

(by first letter in name)

[All](#) [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

Search by Class Id:  Search

Users

(by first letter in last name)

[All](#) [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

Search by Student Id:  Search

University of Miami

## Viewing Users:

Click on All under Users

Cancel

QST University Users

-- All --

- 1 Bob Shill (Administrator)
- 2 Don Herchek (Instructor) (0)
- 3 Carl Kolotylo (Student) (0)
- 4 Bank Admin (Question Administrator)
- 5 Raoul Bombay (Student) (0)
- 6 Sam Black (Student) (0)
- 7 Igor Bull (Student) (0)
- 8 Shirley Bolat (Student) (130)
- 9 Adesh Bahart (Student) (0)
- 10 Bob Cline (Student) (0)
- 11 Ming Chuin (Student) (0)
- 12 Robyn Crow (Student) (330)
- 13 Rob Crow (Instructor) (330)
- 14 Xiam Gupta (Student) (0)

QST

Edmons School District

QST University File of users and classes

Classes

(by first letter in name)

[All](#) [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

Search by Class Id:  Search

Users

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[All](#) [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

Search by Student Id:  Search

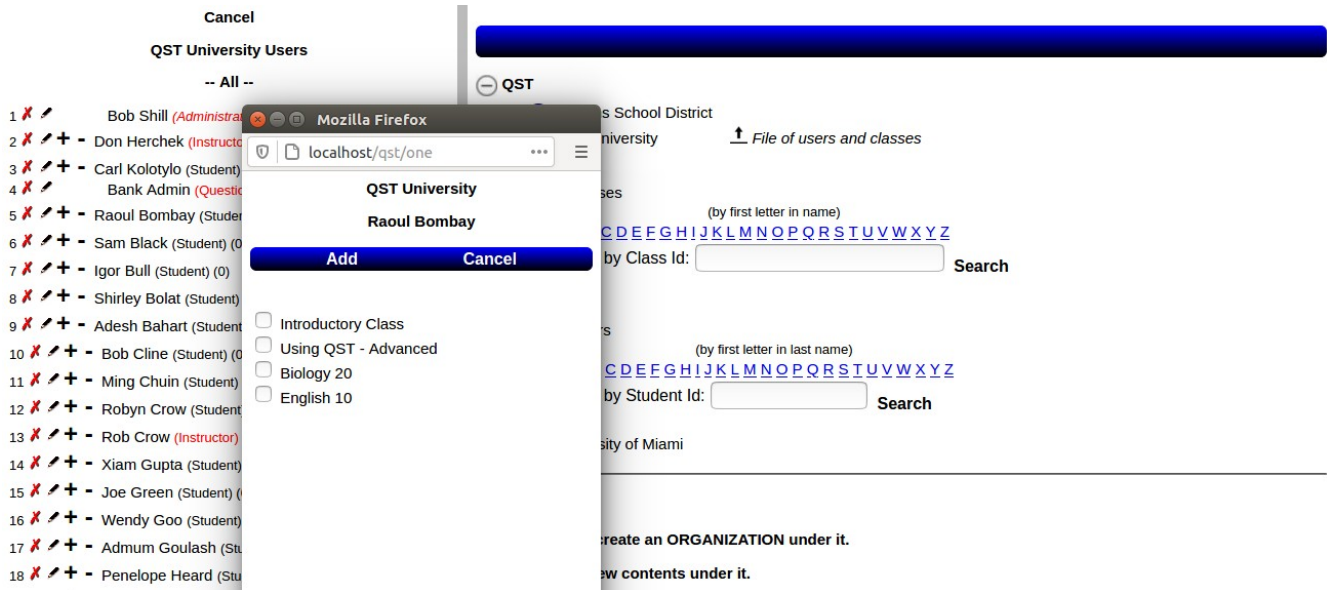
University of Miami

Change

Remove/Delete

- + Add Class to User
- View/Remove Users Classes

To add a user to a class, click on + in front of the user.



Both the instructor and the students need to be added to a class, so the Instructor can POST the QST for the class, and the students can attempt the QST.

If a user enters the **wrong information to login 4 times, the account is locked for 3 minutes** before it can be used again. This is for security, so the accounts cannot be brute force attacked.

Using LDAP:

- If you have an LDAP server, uncomment line 2342 and comment out line 2343  
`#$compare_password=&authenticate_ldap("username","$INPUT{user}","password","$INPUT{pass}");`
- Go to sub authenticate\_ldap (line 1361) and make the appropriate changes to the function.
  - When adding users manually you can then leave out their passwords.
- Uploading users and classes, put a 0 in as their password.

## Bulk upload User photos

If on Windows, create a folder `C:\photos`, on Linux create `/var/photos`, on Mac OS create `/opt/homebrew/var/www/photos`.

Paste all your user photos in one of those folders.

Photo names should be in the format: `username.png/gif/jpg`

Click on Bulk Photos.

## Reset All Students

This will remove all students from all classes, and also remove all their marks and QST's. They will still be in the system.

## Remove All Students

Totally removes all students including marks and photos from QST. They will no longer be in the system.

## Another Language Pack:

You now have the ability to change the QST interface to your language.

Beginning on line 803 (in QST.pm), change the word or phrases in each line example:

```
$LANGUAGE{2}{Addnewquestion} = "Add new question";
```

- change the Add new question phrase (bounded by the " ") to your language.
- do this for every line in Another Language Pack
- DO NOT change anything that is contained between < and >.
- DO NOT change anything beginning with \$
- Then go to approx. line 153 my \$set\_language = 1; and change the 1 to a 2
- Save the file as format UTF8 and restart Apache
- \*\* The pdf files QST\_Admin\_Manual.pdf, QST\_Users\_Manual.pdf and Installing\_QST.pdf will still be in English.
- \*\* QST EQ will also still be in English.

Go to where you installed index.htm, open it, and change name and password to your language. Save the file.

## Rebranding QST

To change the black background, first make a backup copy of QST.pm, then open QST.pm and search for all instances of linear-gradient(black,black) and change it to the color you would like. To change the blue/black background, do the same for linear-gradient(blue,black) .

To change the QST logo on the login page, under the qst directory replace qst\_app.jpg with your own logo, but leave it named qst\_app.jpg .

Save QST.pm and restart apache.

If you are having issues with something, please email us at [qstsupport@shaw.ca](mailto:qstsupport@shaw.ca) and we will reply to you as soon as possible. We check email every day.

Email if there is a feature you would like. Most new features are user requests.

Our job is to support QST and program new features.