

User Manual

Oscar Daniel

February 2015

Contents

1	This Product	2
2	Installation	3
3	First Time Setup	5
3.1	Moving The Program Files	5
3.2	Admin Tools	5
4	Adding New Users	7
5	Teacher Accounts	9
5.1	Making Questions	9
5.2	Making Question Sets	10
5.3	Setting Pupils Questions	10
5.4	Deleting / Creating Accounts	10

Chapter 1

This Product

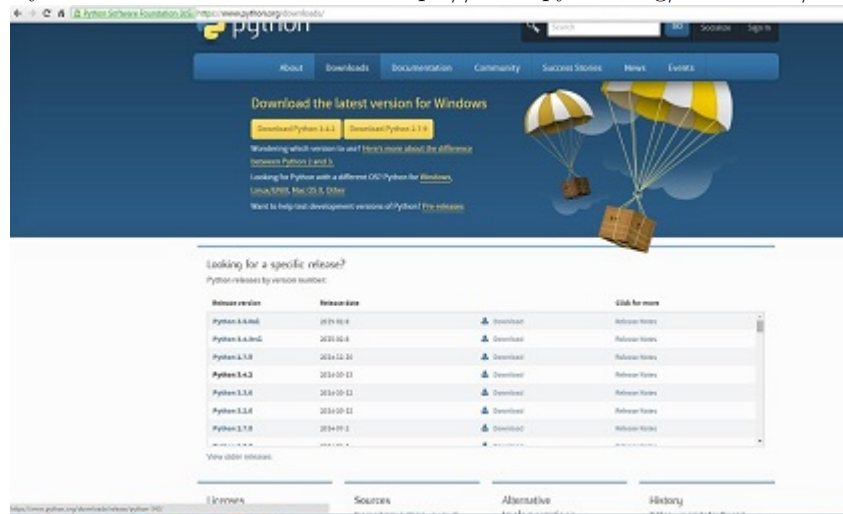
This product is a revision and teaching aid for A Level science subjects, allowing teachers to set their students questions and allow the students access to as many questions as they like. The GUI of this program is designed in a way to allow a user of any technical ability to easily understand and make use of the program. The program works by all users having a copy of the "Teaching Aid.py" file on their work stations and a file that every station can read and write to, through the program, containing the pickle files storing user and question data.

Chapter 2

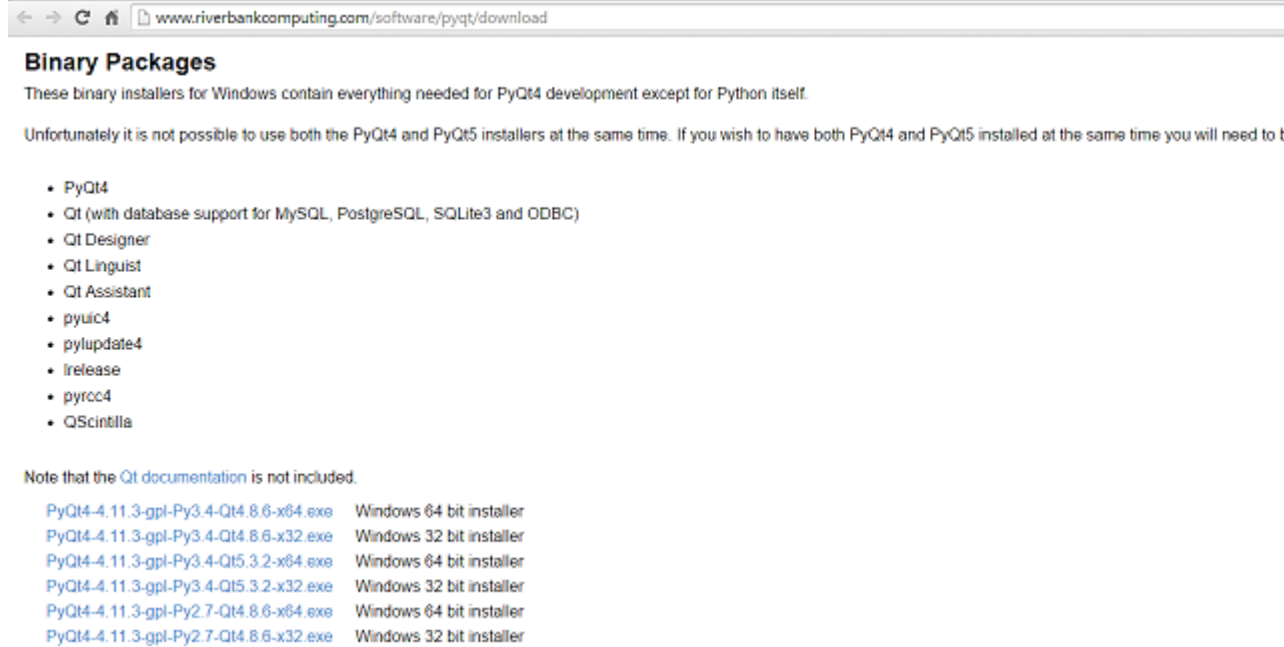
Installation

All computers that will use the program need to have Python 3.4 and PyQT 4 installed on every machine that will run the program.

Python 3.4 can be found here : <https://www.python.org/downloads/>



PyQT 4 can be found here: <http://www.riverbankcomputing.com/software/pyqt/download>



The screenshot shows a web browser window with the address bar displaying www.riverbankcomputing.com/software/pyqt/download. The page title is "Binary Packages". Below the title, a paragraph states: "These binary installers for Windows contain everything needed for PyQt4 development except for Python itself. Unfortunately it is not possible to use both the PyQt4 and PyQt5 installers at the same time. If you wish to have both PyQt4 and PyQt5 installed at the same time you will need to b". A bulleted list of included components follows: PyQt4, Qt (with database support for MySQL, PostgreSQL, SQLite3 and ODBC), Qt Designer, Qt Linguist, Qt Assistant, pyuic4, pylupdate4, lrelease, pyrcc4, and QScintilla. A note states: "Note that the Qt documentation is not included." Below this, a table lists six installers with their corresponding file names and bit architectures.

PyQt4-4.11.3-gpl-Py3.4-Qt4.8.6-x64.exe	Windows 64 bit installer
PyQt4-4.11.3-gpl-Py3.4-Qt4.8.6-x32.exe	Windows 32 bit installer
PyQt4-4.11.3-gpl-Py3.4-Qt5.3.2-x64.exe	Windows 64 bit installer
PyQt4-4.11.3-gpl-Py3.4-Qt5.3.2-x32.exe	Windows 32 bit installer
PyQt4-4.11.3-gpl-Py2.7-Qt4.8.6-x64.exe	Windows 64 bit installer
PyQt4-4.11.3-gpl-Py2.7-Qt4.8.6-x32.exe	Windows 32 bit installer

Follow the installation wizards to complete the installations. Only Python version 3.4 and compatible versions of PyQT will work with this program code. Please ensure that you have installed valid distributions before continuing.

Chapter 3

First Time Setup

3.1 Moving The Program Files

To ensure that the program will run as effectively as possible, you will need to put files in the correct places.

The "Admin Tools.py" file will need to be placed in a file that you wish your users to be able to read and write to, regardless of which workstation they are using. i.e. a shared drive.

Important: When you have done this, copy the file path of your "Admin Tools.py" and add it to the subroutines in the "Teaching Aid.py" file in your program folder, as shown below:

Warning: If you do not do this before copying your "Teaching Aid.py" file you will need to repeat the last step for each file on each workstation.

Place Holder



The modified "Teaching Aid.py" file will now need to be placed on every workstation, in a place where any user can access it.

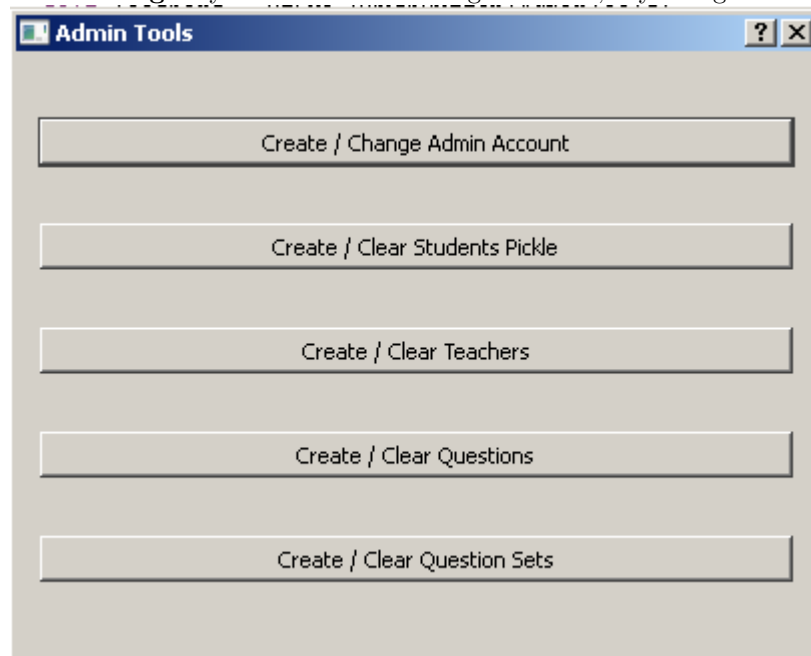
3.2 Admin Tools

After installing the necessary programs, you will want to run the "Admin Tools.py" file. You then need to create an admin account by filling out the form and pressing submit.

Important: You should store these credentials somewhere secure as you will need them to access the Admin Tools again.

Once you have done this you will need to run each of the "create / clear" routines for pickle files by clicking the buttons labelled such.

Warning: If you do this after editing these files, any changes will be deleted.

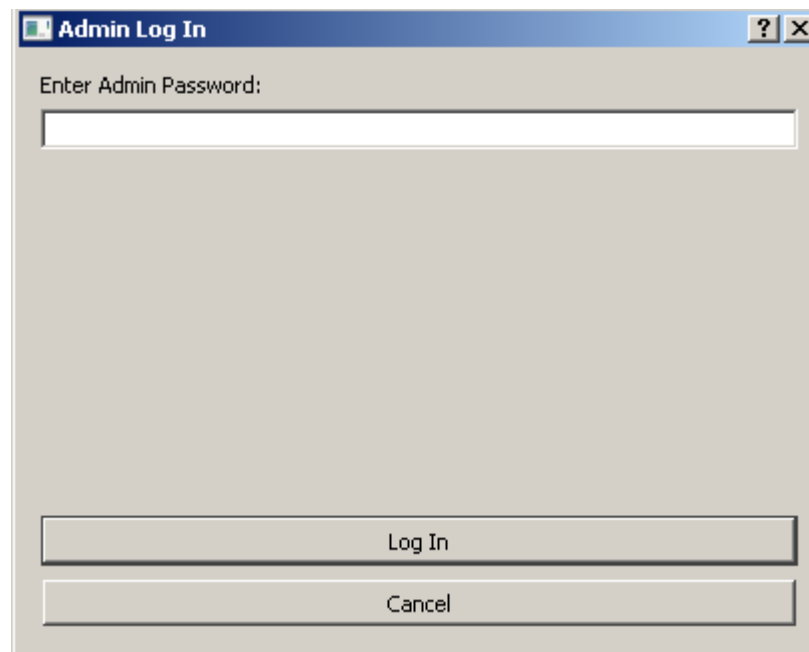


Chapter 4

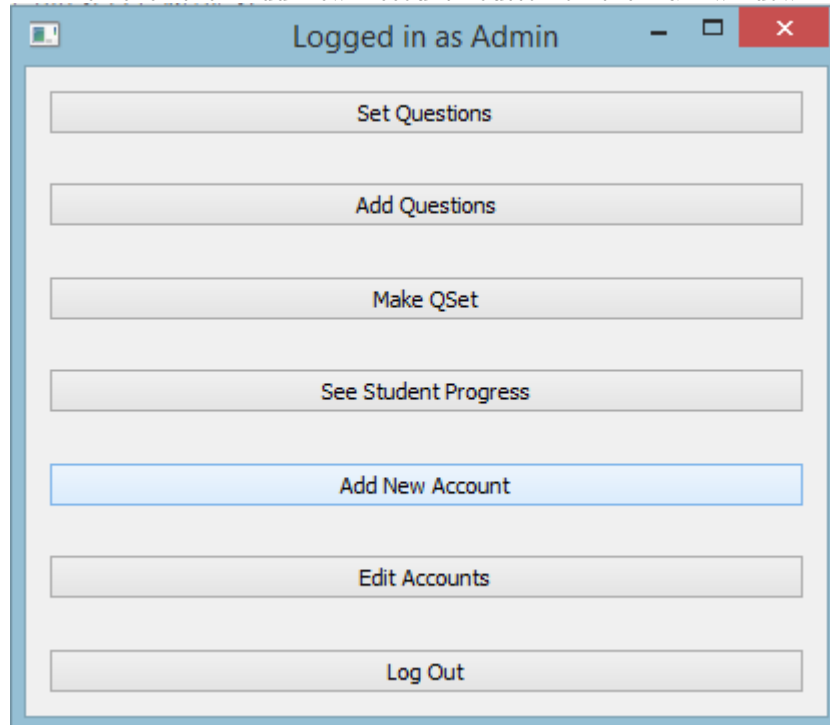
Adding New Users

Now that you have completed your first time setup, you will need to add all of your required user accounts. These steps can be done at any time using admin or credentials.

To add new users to your program, you will need to open a "Teaching Aid.py" on a workstation which meets all pre-requisites and login with the Admin or a Teacher account:



Then click the "Add New Account" button on the main window:



From the create account window you are able to add new accounts to the "students.pickle" or "teachers.pickle" files. However you will not be allowed to use the same username multiple times, or have a Target Grade that is not a capital letter A - U inclusive. If these are entered a dialog box will open, informing you of the error and allowing you to correct the mistake.



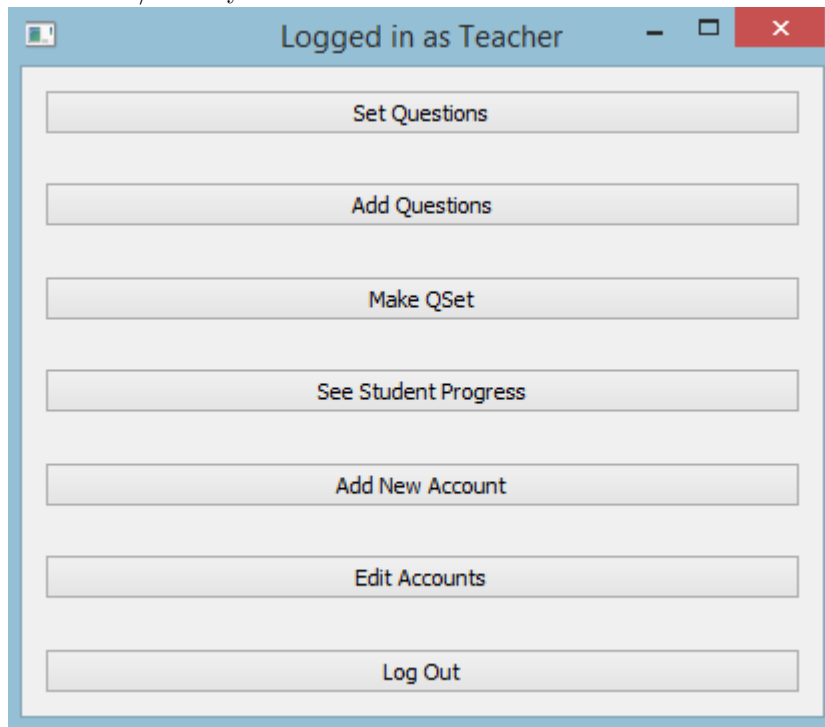
The image shows a screenshot of a software application window titled "Logged in as Admin". Inside the window is a "Create Account" dialog box. The dialog box has a title bar with standard window controls. The main content area of the dialog box is light gray and contains the following elements:

- A title "Create Account" in a small, underlined font.
- Two radio buttons: "Teacher" and "Student".
- A label "First Name:" followed by a text input field.
- A label "Middle Name (if applicable):" followed by a text input field.
- A label "Surname:" followed by a text input field.
- A label "Password:" followed by a text input field.
- A label "Username:" followed by a text input field.
- A label "Form:" followed by a text input field.
- A label "Target Grade:" followed by a text input field.
- At the bottom, there are two buttons: "Submit" and "Cancel".

Chapter 5

Teacher Accounts

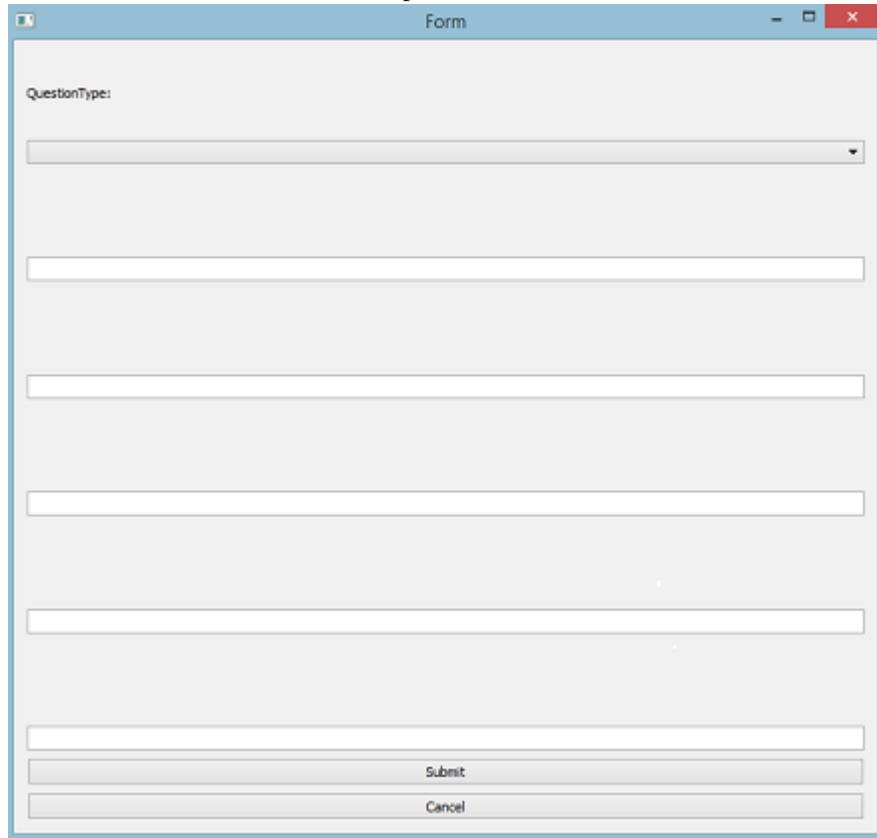
Teacher accounts have the ability to add questions to the question database, make question sets which they can then set pupils to do, see students' progress and create / modify accounts.



The Teacher Main Window

5.1 Making Questions

To create new questions, click the "Add Questions" button on the teacher main window and this window should open:

A screenshot of a software window titled "Form". The window has a light gray background and a blue title bar with standard window controls (minimize, maximize, close). Inside the window, the text "QuestionType:" is followed by a dropdown menu. Below the dropdown are five empty text input fields. At the bottom of the window, there are two buttons: "Submit" and "Cancel".

To make a new question:

1. Select a question type from the drop down box at the top of the screen.
2. Enter in values into the boxes that appear and click submit.

If this is done correctly a dialog box will open informing you such. If not, a dialog box will open, informing you of an error and allowing you to correct the mistake and resubmit the form. This stores the question in the questions.pickle file under an index number and the question type that was chosen.

5.2 Making Question Sets

5.3 Setting Pupils Questions

5.4 Deleting / Creating Accounts