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Candidate Number: 0836

User Manual

1. Introduction

In this manual I will go through how to properly install, run, use, trouble shoot and backup my application.

The user will require a computer to the correct specifications, discussed in section 2.1, a CD-ROM containing the application installer and basic understanding of the operating system Windows 7.

2. Installation

2.1. The System

In my design I specified that my application will primarily run on computers running Windows 7, but the application was designed for the computer specifications below.

- Intel Core i5 running at 3.3 GHz
- 4GB DDR3 running at 2000 MHz
- SATA III 600 GB Internal HDD
- CD-ROM Drive
- Motherboard onboard graphics

The operating system of this computer will also need to be Windows Ultimate 64-bit, and doesn't require any internet connection to install or run.

2.2. Prerequisite Installation

My application does not require any programs installed on the computer apart from the application itself. If the application's source code were to be distributed, instead of an executable version, then the user would need to install the following.

- Python 3.2 Windows 64-bit
- PyQT (for Python 3.2 Windows 64-bit)

My program was never intended to be run on any Mac or Linux based computer, because I never specifically implemented any cross-platform functionality but theoretically PyQT and Python can be installed on both Mac and Linux computers. So it is possible.

2.3. System Installation

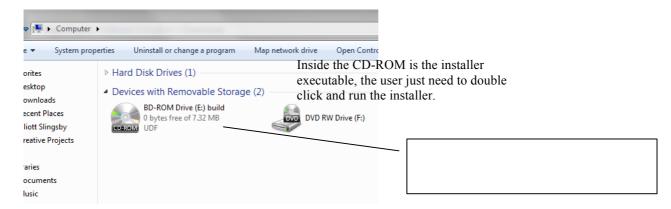
jeweller_installer.exe

This is the path the installer will extract the files to.

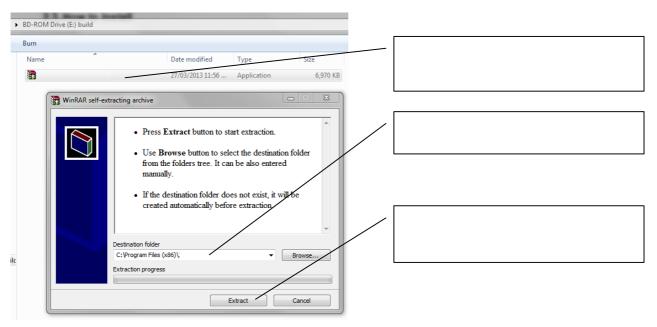
This is the CD-ROM with the files needed To install my application, the user will first need to be given a medium that can store a minimum of 10 rth on. The user just needs to double 6.80 MBs of data. This medium could be a CD-ROM, DVD the Bor if the system has internet connection, via the internet. But for the following example I will assume the user acquired the application through the preferred distribution method, CD-ROM.

If everything seems okay, the extract

After inserting the CD-ROM, the user will need to havigate in from hitter, and incomplete, and incomplete contents of install the program. the CD-ROMer



Inside the CD-ROM is an executable file named "jeweller installer.exe", upon running it, the user will be displayed the extract window.



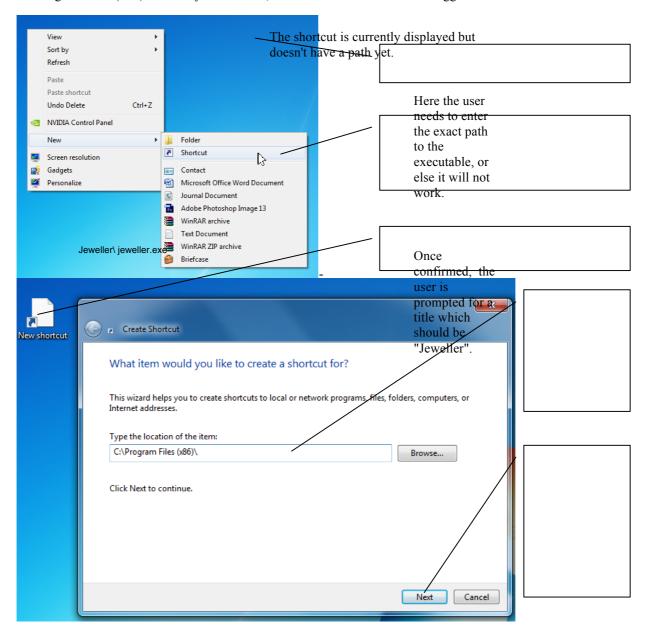
The installer is a WinRAR self extractor archive, which can be ran on any system even if it doesn't have WinRAR installed. Once the installer has finished, the extractor will close automatically.

2.4. Running the System

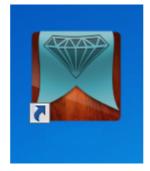
Jeweller.

The user needs to right click anywhere on the desktop, go to new, and then shortcut.

The create shortcut window should then To run the program, the user could either navigate to "C:\Program Files (x86)\Jeweller", and run "jeweller.exe", or for ease of use over time, the user could create a shortcut on the desktop to "C:\Program Files (x86)\Jeweller\jeweller.exe", and title it "Jeweller". This is suggested.



When finished, the icon should then default to the icon of the executable, which is confirmation that it installed correctly.



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3. Tutorial

3.1. Introduction

In this section I will go through how to completely utilize every function in my application, which includes how to modify each table by adding, amending, and deleting. I will also go through how to navigate the program itself.

3.2. Assumptions

During the tutorial, I go through the basic functionality of the control buttons on the right of the program. I only perform actions on one tab, which is the customers tab but I assume the user can take the use of one tab's control buttons over to the next, because the functionality of the control buttons differs very little on each tab.

I also expect that the user has a very basic understanding of the operating system Windows 7, and seeing as my client has already been confirmed more than capable with Windows 7 applications from my analysis, the tutorial shouldn't be a problem to follow.

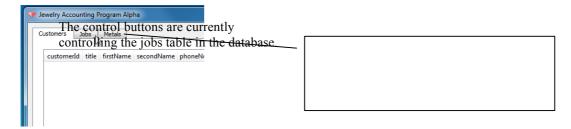
Centre Number: 225151

3.3. Tutorial Questions

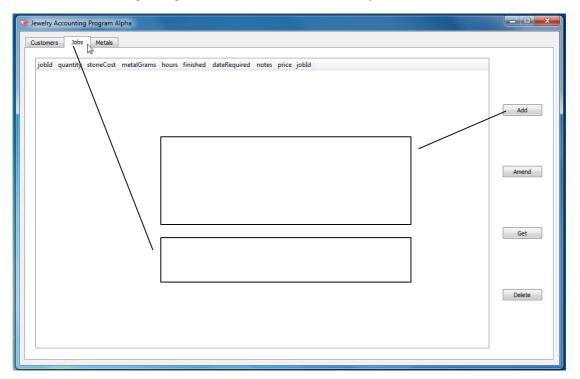
3.3.1. Navigating then Trabbuttons for each tab.

These buttons allow you to perform changes to the data in the database, and

To navigate thinkshiftepeneranied depending tondo is move the cursor up to the tab bar at the top and click on the tab bar at the top and table to the tab bar at the top and table to the tab bar at the top and table to the tab bar at the top and table to the tab bar at the tab b



Upon clicking, the function buttons on the right will not change, but they will now perform actions on the selected tab's corresponding database table which is indicated by the name of the tab.



3.4. Saving

My application doesn't require any saving, because when an action is performed on the database, it connects with the database, commits the action, saves the database and closes the connection.

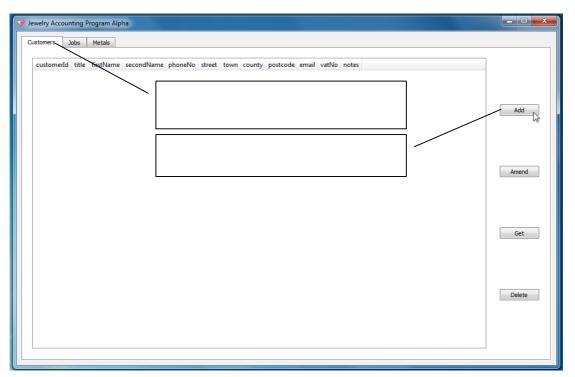
This allows the application to close without having save anything.

You can add to any tab, but in this case

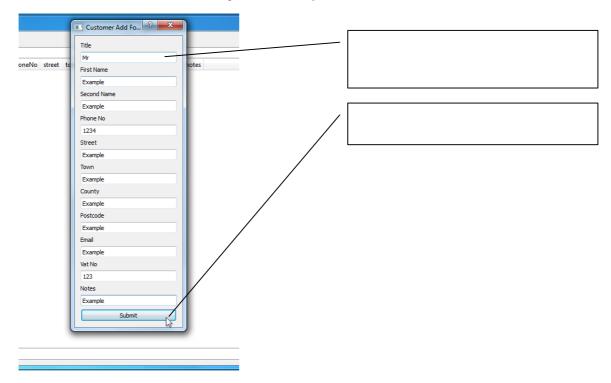
3.3.2. Adding a Record This outton will submit the addition to the database.

This is the add button. Click it to add a

To add recorded, navigate to the tab you wish to control and click on the add button among the control buttons on the right of the program.



When clicked, the add form will appear, and you should now enter the data you wish to add to the database, in this case, I have used example data. When you are done, click submit.

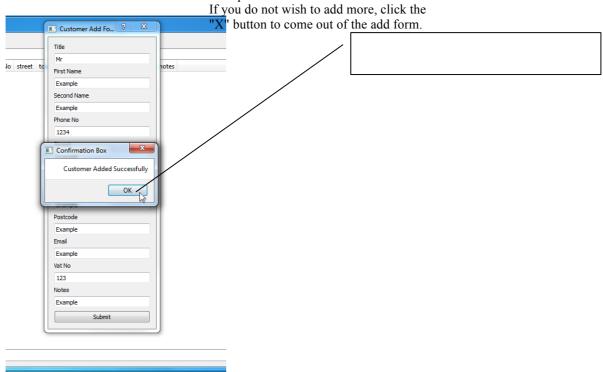


Click "OK" to allow the application to

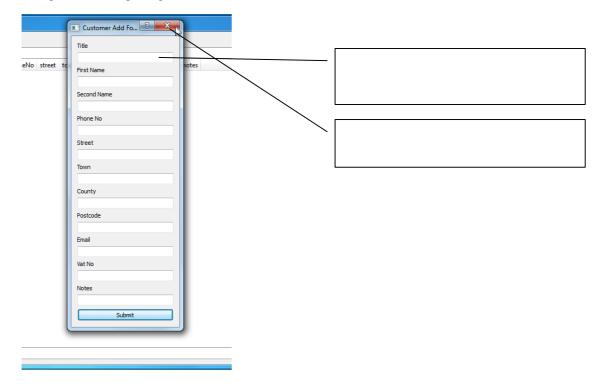
The telegrows acknowledge the addition.

Candidate Number: 0836 Centre Number: 225151 confirmation, allowing you to enter more data to add to the database.

Click "OK" when the confirmation comes up.



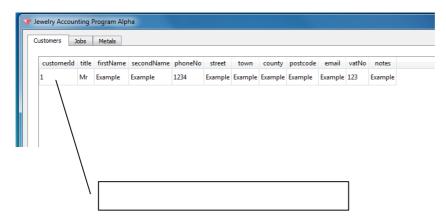
You can now either enter in another record to the database, just like before, or you can click the "X" at the top and finish inputting records.



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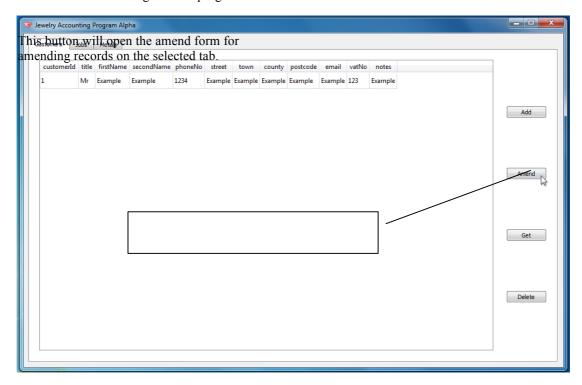
Once closed, the application's table will update, showing the record you just added.



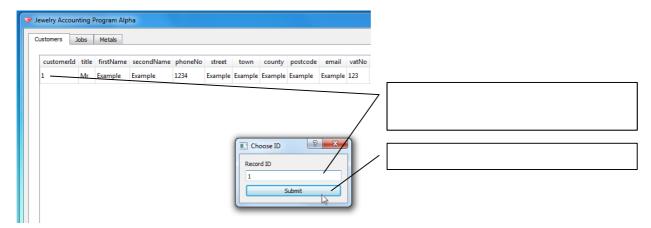
3.3.3. Amending a Record

The ID that you enter must correspond to an already existing record, like this one.

To amend a record, navigate to the tab you wish folican and anti-which you've antered black Damong the control buttons on the right of the program.



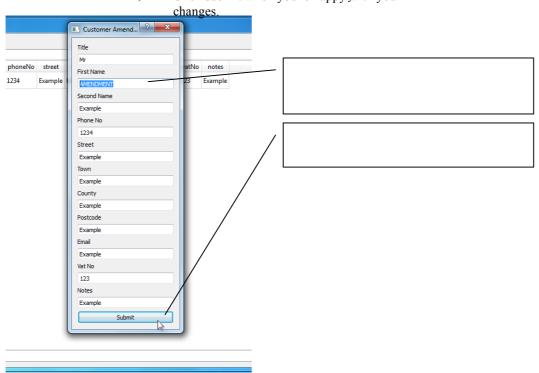
Enter the ID of the record you wish to amend. In this case, I have chosen 1. Click submit when you've entered the appropriate ID.



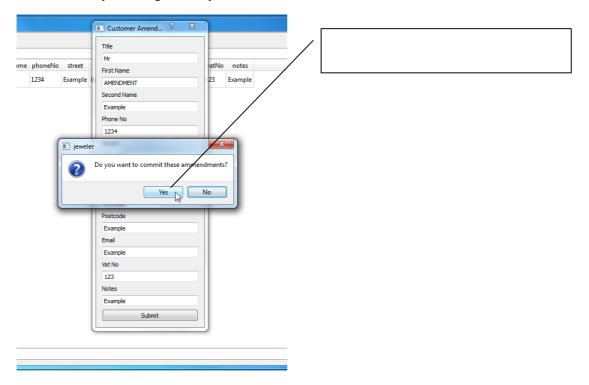
Candidaten Numbers 9836 ust simply edit Centre Number: 225151 the text already in the text boxes. Here I

have edited the first name.

A form similar to the add form should appear. From here you can edit the text boxes to make your amendments. In this case, I have aircless dedutes the whole would be the work of the control of the cont

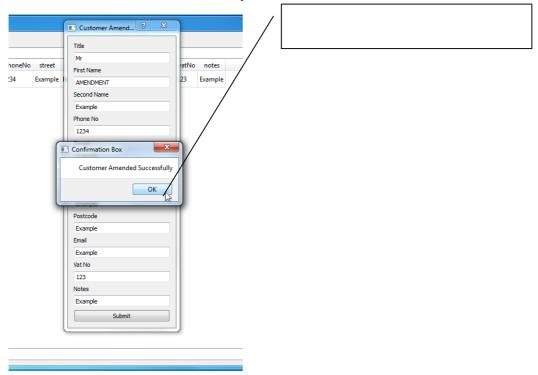


Before continuing, make sure you are amendments are correct and if you see a mistake, click no. If you want to commit your changes, click yes.

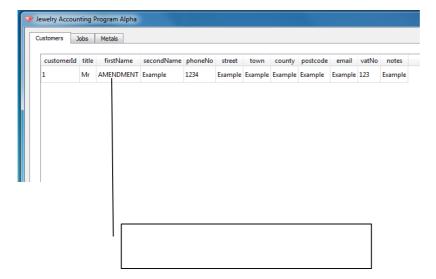


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Click "OK" when the confirmation comes up.



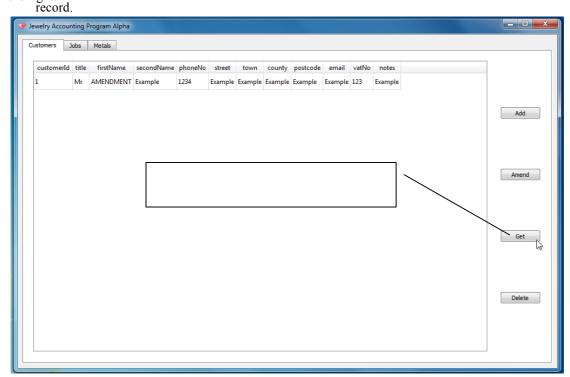
The amend form should then close, and your record should be amended in the database.



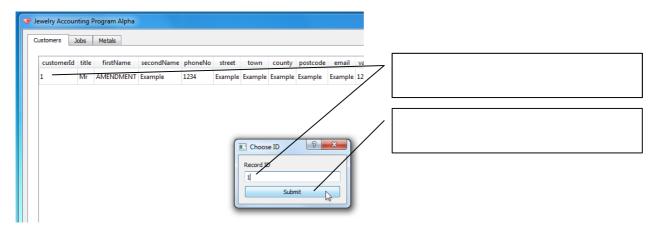
3.3.4. Getting a Record

Click submit when you've entered a valid ID

To view a specific record in the database, click on the get button among the other control buttons, on the rights the get button to view a specific

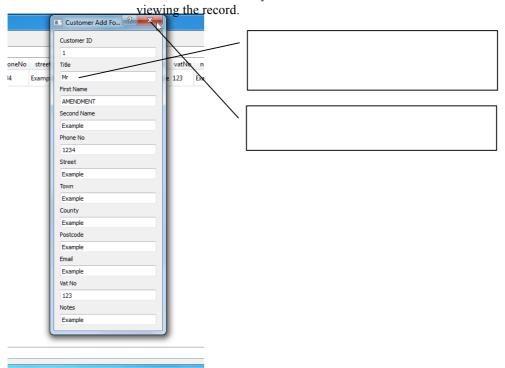


Upon clicking, you should be prompted for the ID of the record you wish to view. In this case, I have used 1.



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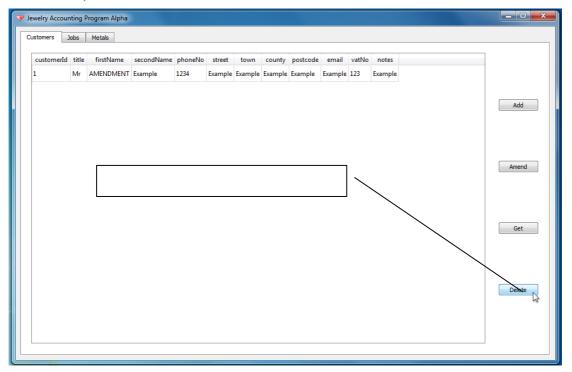
When you are finished victional the colore it.



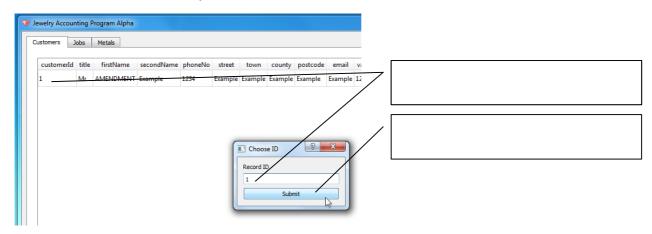
3.3.5. Deleting a Record

Click submit when you've entered a valid

To delete a record, navigate to the tab you wish to control, and click on the delete control button on the To defete a record, click the delete button.

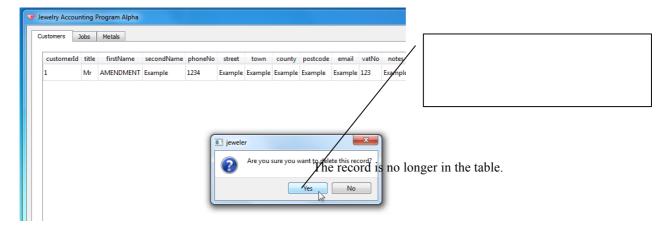


Upon clicking, you should be prompted with the ID of the record you wish to delete. In this case, I have chosen 1. Click submit when you are done.

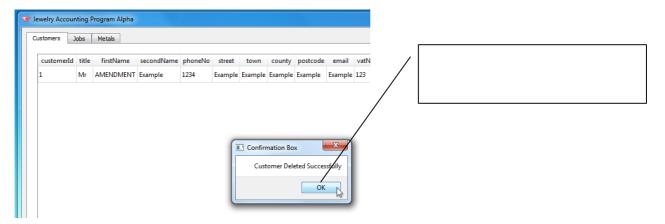


Because deleting a record can be Candidate Number: Oblighting us, you will like the application ber: 225151 know you acknowledge the changes you're changes. Click yes if you're made, sure, and no if you're not.

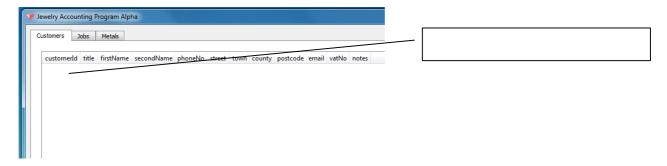
If you are sure you want to delete the chosen record, click yes. If you are unsure, or have changed your mind, click no and the deletion will not be committed.



Click "OK" when the confirmation comes up.



The record you wanted to delete should now be absent from the database.



To cause an error; this would have to be anything other than a whole number when cumulated many version of this field.

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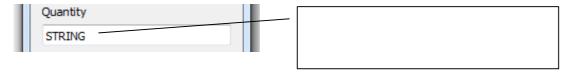
4. Errors

4.1. User error

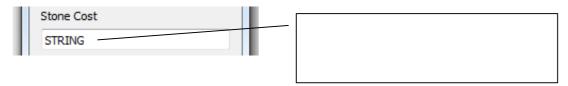
4.1.1. Adding / Amending Jobs

In the adding and amending jobs form, there are multiple text boxes that only allow a certain, unspecified data type to be entered. Otherwise the program will not perform the wanted function. Because all these text boxes suffer from the same error, which is nothing happening when you click submit, examples can't really be shown. Below I will go into each text box that may cause issues when it comes to invalid data entry.

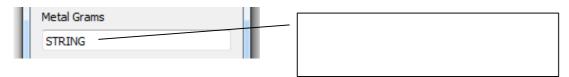
Quantity: This field will only allow integers to be entered. Not doing this will prevent the user from carrying on. An example of how to reproduce this is below.



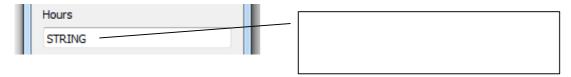
Stone Cost: This field will only allow integers and decimal numbers to be entered. Not doing this will prevent the user from carrying on. An example of how to reproduce this is below.



Metal Grams: This field will only allow integers to be entered. Not doing this will prevent the user from carrying on. An example of how to reproduce this is below.

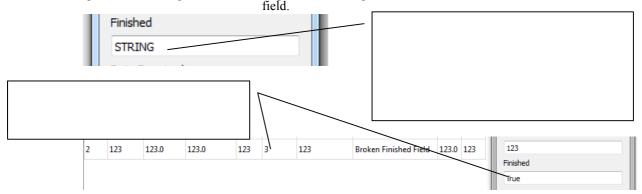


Hours: This field will only allow integers to be entered. Not doing this will prevent the user from carrying on. An example of how to reproduce this is below.

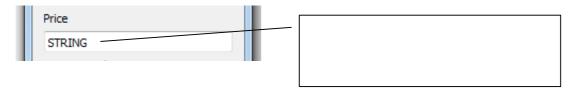


TS SHISE HIS EFFSF; this Wollid Have to be anything other than a whole number when controlled the ship of the ship

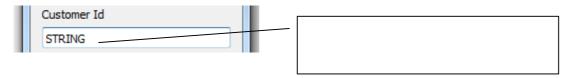
Finished: This field will only allow 1 medges and the active that he data discount only allow 0 or 1 to be entered in place of True and False with the active of the activ



Price: This field will only allow integers and decimal numbers to be entered. Not doing this will prevent the user from carrying on. An example of how to reproduce this is below.



Customer ID: This field will only allow integers to be entered. Not doing this will prevent the user from carrying on. An example of how to reproduce this is below.

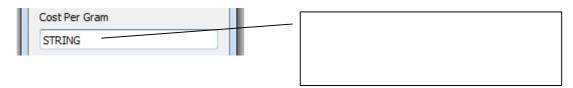


None of these errors will cause any fatal damage to the database, nor will it make the program freeze or terminate, they simply just prevent the user from carrying on and committing any changes.

4.1.2. Adding / Amending Metals

Like the job's adding and amending forms, the metals adding and amending forms also contain a text box that may cause issues if the user enters invalid data. There is only one text box that has a specific data type.

Cost Per Gram: This field will only allow integers and decimal numbers to be entered. Not doing this will prevent the user from carrying on. An example of how to reproduce this is below.



Because these cause the same error as the fields in the job's adding and amending forms, these also will not cause the program to freeze or terminate.

4.1.3. Choosing IDs

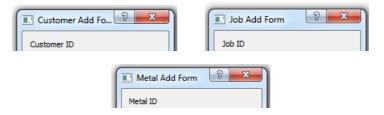
Whenever the user wishes to perform a control function on the database that requires a target record's ID to entered, the choose ID box will appear. Because this is the same instance whenever it appears, it suffers from the same error on every tab. Below you can see the box.



Whenever the user enters an ID that points to a non-existing record, the box will suddenly close, giving no indication of an error. This doesn't cause any long-term damage, and it will not cause the program to crash or freeze.

4.2. Program bugs

The only program bugs that managed to make it into the final application were the miss labelling of the get forms on each tab. Instead of title "Customer Get Form", the actual form window title reads "Customer Add Form". Examples of which are below.



Fortunately this is a minor program bug which could easily be amended in the code, and shouldn't cause any harm to the usability of the application.

4.3. Incomplete sections of code

My application doesn't contain any obvious incomplete sections of code, because none of the incomplete sections ever got implemented into the GUI.

For example, there is an entire functioning controller for a non-existent invoice table in the database, but it's functionality never got implemented into the GUI, so it should cause no problem for the average user.

Elliott Slingsby Candidate Number: 0836 Centre Number: 225151

jewellenexerr
set /p Drive="Drive Letter >>> "
xcopy "applica5:oSystemvRecoveryy
pause

Clicking on this, in the right click menu, will open an explorer window of the directory the shortcut points to.

5.1. Backing up data

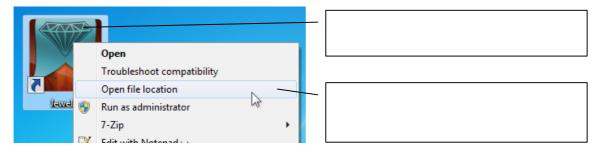
To backup my program, the user will need a few spare USB pen drives. It is suggested that every month the database is backed up onto one of the pen drives, and stored in a safe location.

The only data that requires backing up in the application is the database file itself. Because this is quite a simple problem to solve, I thought that creating a Batch file that performs a simple XCOPY to a chosen drive letter would suffice. Below you can see the batch code. Inside the directory is the Backup bat file,

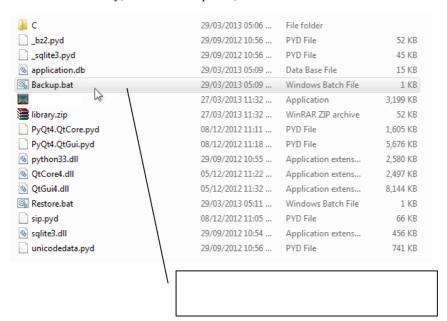
which allows for easy backing up.



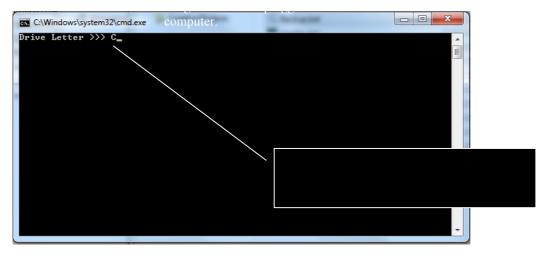
To easily locate the backing up batch file, you can simply right click on the shortcut made during installing and click "open file location".



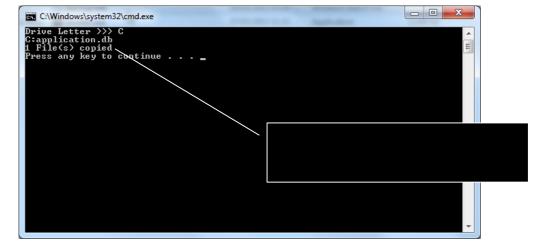
Once in the directory, locate "Backup.bat", and double click on it to run it.



Upon running the batch script, you will be prompted for the drive letter of the USB you wish to back up to. To locate this, you can go to my computer and see the USB device under "Devices with Removable Storages". I currently do not own a USB stick, so for this example I have used my main hard disk drive, which has a drive letter of $\mathbb C$.



When you press enter after entering the drive letter, a confirmation message will appear. The user then needs to press any key to close the script.



process mentioned in first to the database file that will

"The old regtabase file can be process mentioned in first to the database file that will

The old regtabase file can be process mentioned in first to the database file that will

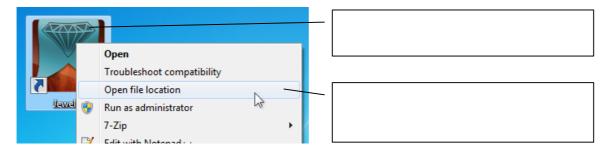
The old regtabase file can be process mentioned anything, as follows its so that open an explorer window with the diesetted being the shortcut points to estored doesn't have to overwrite

and delete the old one. To restore my program, the user will need the pen drives they used to previously back-up on.

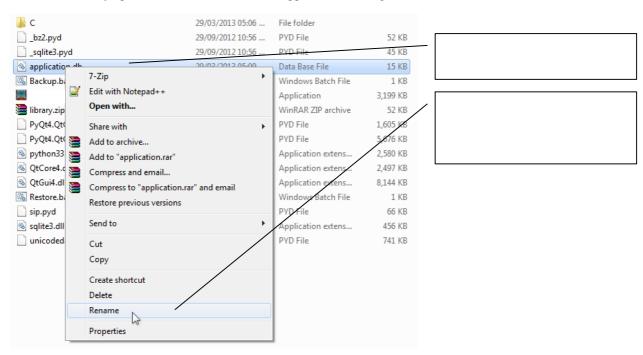
Like backing up, I also created a batch script that performs a simple XCOPY, except this one works in reverse. Meaning it copies the database from the USB drive, to the program. Below is the batch script.



To easily locate the backing up batch file, you can simply right click on the shortcut made during installing, and click "open file location".



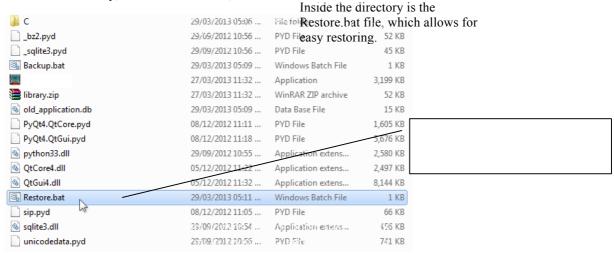
When the directory opens, locate the database file "application.db", right click on it, and select rename.



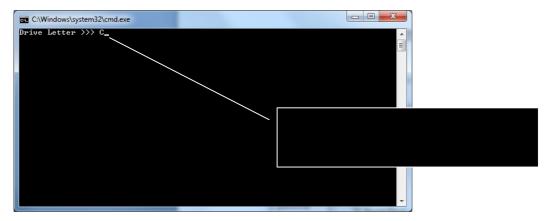
Rename the file to something different, I suggest adding the prefix "old_". This is in case something is wrong with the restored database. If there is, delete it, and rename the old one back to "application.db".

_ .		
library.zip	27/03/2013 11:32 WinRAR	R ZIP archive 52 KB
old_application.db	29/03/2013 05:09 Data Ba	se File 15 VD
PyQt4.QtCore.pyd	08/12/2012 11:11 PYD File	2
P. 5. 4. 6: 5 · .	00 40 0000 44 40 0000 50	

Once in the directory, locate "Restore.bat", and double click on it to run it.



Upon running the batch script, you will be prompted for the drive letter of the USB you wish to restore from. To locate this, you can go to my computer and see it under "Devices with Removable Storages". I currently do not own a USB stick, so for this example I have used my main hard disk drive.



You will be prompted to specify if "application.db" is a file or folder, you should select "F" for file. When you press F, the script should restore the database, and you can press any key to close the window.

