

Sang Hwa Lee, Ningyuan Zhang, Miguel Rodriguez

INST 326

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## Final Project Documentation

- *What your project is and what it does.*

This project is a program that was created to manage people's contact list easily. This program stores what you type (name, phone number, email, address) in the database and helps you manage your contacts through the process of modifying, deleting, and verifying them.

- *An explanation on how to run the program from the command line.*

To run this program, users have to type in (python "file path\Final Project.py")

- *how to use the program / how to interpret the output of the program.*

To use the program, the user must select the desired function from the menu. There are six menus. Number 1 is add contacts, number 2 is Delete contacts, number 3 is modify contacts, number 4 is search contacts, number 5 is show all contacts, and number 6 is exit. If the user chose the first one, the user can enter the phone number. Next, the user can enter a friend's name, email, and address in turn. Once users have completed all entries, the program will switch back to the main menu screen. Users can then perform the functions (modify, delete, verify, show) that they want. If the user no longer needs to use the program, they can select Exit and quit the program.

## Annotated Bibliography

*"SQLite - Python." SQLite - Python, [https://www.tutorialspoint.com/sqlite/sqlite\\_python.htm](https://www.tutorialspoint.com/sqlite/sqlite_python.htm).*

This site explains the various APIs used in our project. It describes the `cursor.execute`, `connection.execute` that we are currently using in our code. About the `cursor.execute`, This routine executes an SQL statement. The SQL statement may be parameterized. The `sqlite3` module supports two kinds of placeholders: question marks and named placeholders. Also about the `connection.execute` is his routine is a shortcut of the above execute method provided by the cursor object and it creates an intermediate cursor object by calling the cursor method, then calls the cursor's execute method with the parameters given. This information helped us understand the API used in the program.

*"SQLITE3 - DB-API 2.0 Interface for SQLite Databases¶." `sqlite3` - DB-API 2.0 Interface for SQLite Databases - Python 3.10.4 Documentation, <https://docs.python.org/3/library/sqlite3.html>.*

This site provides basic module functions and constants, connection Objects, Cursor Objects, and Row Objects, which are used when SQLite is used in Python. A site that helps you understand the overall functionality.

*<https://umd.instructure.com/courses/1320811/modules/items/11128859>*

This is the ppt that tells us about the tools we have to deal with. This file is covered by module 11. It presents information related to standard libraries and modules, how to facilitate interaction with databases, manage connectivity, forward queries to database systems, and create query results that can be accessed by Python.

DavidMuller. "How to Use the sqlite3 Module in Python 3." *DigitalOcean*, DigitalOcean, 2

June 2020,

<https://www.digitalocean.com/community/tutorials/how-to-use-the-sqlite3-module-in-python-3>.

This site provides basic information about the sqlite database. First, we explain the connection creation part for the sqlite database that we are using. Describes how database files can be associated with Python programs. It also contains detailed information on how to add data to the database, how to read data, and how to modify it.

"Python Gui - Tkinter." *GeeksforGeeks*, 7 Jan. 2020,

<https://www.geeksforgeeks.org/python-gui-tkinter/>.

This website provides a variety of information related to the GUI. Basically, we are explaining Tk and mainloop, and our group is using tkinter to make code, so we could use useful information. Also, there is information about the tk.button we are using. It provides information about various options for changing the format of the widget, and we used it to set the font for the button label. This site was very helpful in using the GUI because it was so informative and easy.

Real Python. "Python GUI Programming with Tkinter." *Real Python*, Real Python, 30 Mar.

2022, <https://realpython.com/python-gui-tkinter/>.

This website gave our team information about the overall GUI. Basically taught me how to work with widgets. Specifically, I was able to get information about the geometry manager .pack(). We found that .pack() uses a packing algorithm to place

widgets in a framed order or in a window. It was also very helpful to understand because it included examples related to it.

“Using Lambda with 'Command' in Tkinter.” *CodersLegacy*, 26 Dec. 2021,

<https://coderslegacy.com/python/tkinter-lambda/>.

This website contains information related to lambda functions. The basic idea of a lambda function was that you could create an unnamed function in one line. So we configured it so that it can be injected into the command options of the tkinter widget. They also had information about the parameters of the lambda function, and by looking up it, we could better understand the lambda function. It was a site that helped us understand the function even more because there was an easy example.