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Python Programming Project

Address Book Manager

Introduction

Address/contact book managers were widely used in the era of telephones to keep the contact details of friends, family, acquaintances, etc. In the modern era, these address/contact book managers were slowly lost into history due to the invention of mobile phones and their digital contact books.

This project is an attempt to digitalize address book managers using the modern technology and thus create a Graphical user interface for the user to interact with the same.

Languages and Modules used

This project uses Python to create its graphical user interface.

Tkinter module is used to create a basic GUI for the user to interact with the code.

Csv module is used for creating new entries in the database that previously exists in memory.

Pandas module is used to search for an entry in the database.

OS module is used for the extra touch that we as a development team have given to the software which will be discussed further in this report.

Pages and Functions

The main page of the software contains three buttons. The first button is used to search for a query.

This button triggers a different page with a textbox and a button which says search. Now this textbox is to be used to type the entry the user wants details for.

The search button triggers a function which uses pandas to access the database and search for the given query.

The textbox present in the search window is case sensitive i.e. the first character of the query should be capitalized in case a particular query is not found.

The second button in the main page is for the creation of a new entry. This button takes the user to a different window. This window contains a sequence of entry boxes each one of which takes entry for a different detail like name, address, phone number, etc.

Now this page has a final submit button which triggers a function. This function uses the CSV module to take all the entries from the entry box and append them into the pre-existing database file and thus creating a new entry.

The third button is a special touch that we as developers have provided that is a self-destruct button.

This button triggers a function using the OS module which deletes the whole database along with its data and thus protects the privacy of the user.

This button is introduced as a security measure as the database is not fully secure but it’s not as effective.

Further updates of the software will ensure better security measures to protect from all kinds of attacks but the self-destruct button will stay nevertheless.

This is all about the features and functions of the software.

Apart from this the GUI is kept as simple as possible to ensure a classy look.

A Note From Developers

This software which is an Address/Contact book manager is the first edition and thus contains some security and stability flaws. These flaws though not that major may cause some small problems and thus need to be resolved.

Further updates of the software, if any, will focus on resolving these flaws and thus ensure a secure and stable environment for the software and the user as well.

The GUI is kept simple to provide the user a classy experience but can be changed a little to the clustered side upon user feedback as well as upon the agreement of the developers.

GitHub Link--