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Midterm Project Gui

User Interface

**Business Need:**

Every company organization or individual can use an address book and contact list. Organization with how we store the information of all the people we communicate with allows everything to run smoother.

**User Stories:**

I need to be able to give a friend/ employee/ or someone a list of contacts I have without giving them access to an account. With this app they can simply print it out to a text file that is formatted with name, number, email, and other information.

I enter in contacts quickly and randomly causing them to be out of order and without format. With this app they are alphabetized and capitalized appropriately.

*johnny seed*

*henry apple*

*will be changed to the correct order and format*

*Henry Apple*

*Johnny Seed*

I need to be able to add something simple in on the desktop without internet connection. This app allows the user to input names.

I need to have a list that isn't easily readable if someone found the files. This way not all of those contacts have their information compromised. This app stores data in a file that is run through a cipher encryption of shift 3, + 1. This changes the ascii values so even the non text characters will be adjusted.

Easily being able to edit contacts by pre populated fields.

Easily being able to delete bny just a click of a button.

**Goals:**

Easy to use list, can be accessed right on the desktop and is not dependent on the internet. The entries are stored in an encrypted list that allows for some safety. You do have the opportunity however to put the entries in a readable list text file. Both of these files are set up automatically and created if they do not already exist in the folder of the application. This way they can be created easily with no hassle. The application also makes it easy to sort and format contacts by alphabetizing and capitalizing the first letters in the names.

**Overview:**

* Show All/ Edit
  + View All Contacts and ability to edit
  + Put in a listview with buttons
* Add Contact
  + Allows adding to the list, fills fields for you with what is already stored there.
  + populated fields are empty because it is new
  + Save button has a pop up confirmation that everything worked
* Delete Contact
  + Deleting a contact from our list, simple click and the list will update.
* Edit Contact
  + Edit one of the elements, fills fields for you with what is already stored there.
  + THis allows easy access to what was already there
* Search Contacts
  + Search through contacts and return names of similarity, not case sensitive to show similarities.
* Format and Sort Contacts
  + Capitalizes the first and last name
  + Sorts the list alphabetically
  + Pop up to show that is is done
* Make A Printable List
  + Allows you to have txt file with your list clearly printed for your use
  + Lets you know the name of the txt file it was written too
* Exit Contacts
  + Saves lists, encrypts the file they are saved in, and exits application gui
  + This Encryption is a caesar cipher +3 with a one offset for the item in the string
  + All files out and in are created if they do not exist. No need to do it yourself
* Visual
  + Simple layout. Exit buttons are marked in red. I tried to make it so there was just a back arrow but this did not work as fluidly.

**Just a few screen shots of the files and GUI. I would recommend running to get the full scope of the GUI and what it can do.**

