

## Success Criteria

Criterion	Achieved: True/False	Explanation
Import vcf/csv	False	<p>My client needs a central hub in which to store all his contact information. This task would be made a lot easier if he could simply import contacts from other places into the database instead of needing to add them all manually. This can be crippling for someone with a large number of contacts.</p> <p>That said, the use of this program as a central hub for contact information is fundamentally flawed due to the fact that -- right now -- active synchronisation between multiple communication services is beyond my ability. Manually keeping track of changes to contacts in various services might be something of a headache.</p> <p>Furthermore, depending on the various data points that different services let you store about your contacts, parsing them into my database could be a bit of a challenge. On the other hand, extraneous information could just be shunted into the notes text area.</p>
Search and query database	True	<p>One of the most important parts of a database is the ability to search and query it, so I wrote a simple algorithm that would search it by name or query it by category. At the press of a button</p>
User-changeable database characteristics	False	<p>I failed to implement this in two respects:</p> <p>Firstly, in an my client specifically stated a desire for “<i>enabling user-defined categories</i>”, which I failed to provide. The code I wrote for that opened a dialogue box with a table of categories, an add category field, and a delete category button. All basic functionality had been implemented elsewhere, but I was unable to get it working in this instance. This shortcoming will be one of the first things I’ll try to remedy on the second version of this.</p>

		<p>Secondly, a flaw in my initial design led to the user being constrained to three phone and three email entries. In the same interview he said: <i>“Another field might include Skype, WhatsApp and other messaging options. And maybe social media like FB and LinkedIn?”</i> From my extensibility list: <i>“Replace email and phone arrays in Person template class with an ArrayList of contact information + View contact information with a table”</i>. On my second version I’ll overhaul the user’s ability to store contact information with an ArrayList and a table.</p>
Error handling	False	<p>This program does not have any error handling capability. Making it such that it will continue to function if, for example, the user did not fill in all the text fields when adding a new user, would go a long way to improving usability.</p>
Save to and retrieve from a file	False	<p>In order for my program to be usable as a decent address book it needs to be able to write the data contained in the database to file upon closing (or preferably on the fly in the event that there is some kind of crash) and read the data contained in the file into the database when it is started back up.</p>
User-friendly UI	True	<p>The user interface was constructed from interviews with my client and research into other address books. Taking my client’s desires into consideration, I designed the GUI based on the layout of various existing address books, including those in Mozilla Thunderbird and Windows XP. That said, I am personally not a huge fan of the look and feel options presented by Java.</p>
Documentation/Manual	True	<p>I wrote installation instructions and a brief user manual in the repository’s README on GitHub.</p>
Ease of installation	True	<p>Installation consists of downloading an executable file and running it. It’s pretty simple</p>

		and step by step instructions are included in the README.
Portability	True	The program is written in Java. Java programs run in a virtual machine, so theoretically it can run on anything that has a JVM installed. I elected to not bundle install scripts, icons, or .desktop files as they could reduce portability.

### Evaluation

In the initial interview my client stated that he wanted a program that would periodically fetch .csv files from various webmail providers (gmail, outlook, etc) and import them into the database in such a way that duplicates could be avoided and, some cases merged. I had no idea how to do that, so I focused on a more manual approach. Though I achieved the essential database functionality, I was unable to complete the file-interfacing components that would really make the program practical.

I plan on continuing to work on this project and adding functionality. Beyond what I discussed above, most of my client's thoughts about the program pertained to simple ergonomics, much of which should be fairly trivial to achieve. The next version, version 0.5, will implement all planned features that were not achieved in this version and revise the design in order to address the critiques put forth by my client in the final interview. Furthermore, after some consideration I believe that I might be able to implement my client's desire for automatic contact synchronization using Selenium Webdriver, though I am still uncertain about that.

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### Appendix -- Final Product Feedback

This is coming together as a basic database with the essential elements of a contacts address book. The all important Import Person feature is not yet functional, nor is the Export feature, and it's unclear if Import will allow batch upload (as opposed to single contacts).

For usability and functionality I recommend:

- Figure out why the field categories aren't lining up with the fields (phone label is higher than its field, etc.) in the Edit Person tab.
- Name should include separate fields for first, last
- Label all fields such as DOB day, month, year, address street, city, state, zip)
- When selecting a contact to edit, clicking the edit person button on the Search People tab should open the Edit Person tab.

- DOB and Categories dropdown menus don't maintain their information if Editing Person for an existing contact, unless the information is re-entered.
- DOB data should auto calculate the person's age
- Add Category button not functioning
- GUI is basic but adequate

**Word Count:** 795 +