

16

Contacts Book

Programming Exercises

16.1 Add the ability to sort the data into an order specified by the user at run time.

You may want to treat this as an opportunity to rewrite the whole application so that the first names and last names of the contacts are kept separately and so can be sorted on separately.

16.2 Add the ability to commit edits to the contacts data.

The basic infrastructure is all in place. The data can already be edited, what is needed is a button to press to action any edits made to the data. Editing a person's name is of course different from editing their contact details.

You might want to consider what happens when the user quits the application but there are pending edits.

16.3 Add the ability to add and remove data fields from the set of data known about a contact.

16.4 Add the ability to add and delete new contacts.

16.5 Amend the application so that when it is started it opens the file that was open when the application was last closed.

You might also want to think about adding a list of the last three or four files opened, making them available as a menu then the top of that list (i.e. the last file opened) can be treated as the default file to open.

Challenges

16.1 Write and integrate into the application a class `VCardContactFile` to provide the ability for the application to read and write vCard format files as well as XML format files.

Remember that you want to be able to read one format and write the same or a different format.