

T1A2 - Terminal Application

Address book

By

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List of functions

- **Add a contact**

Will add a contact to the address book.

- **Search for a contact**

Will search for a contact in the address book.

- **Update a contact**

Will update a contact in the address book.

- **Delete a contact**

Will delete a contact in the address book.

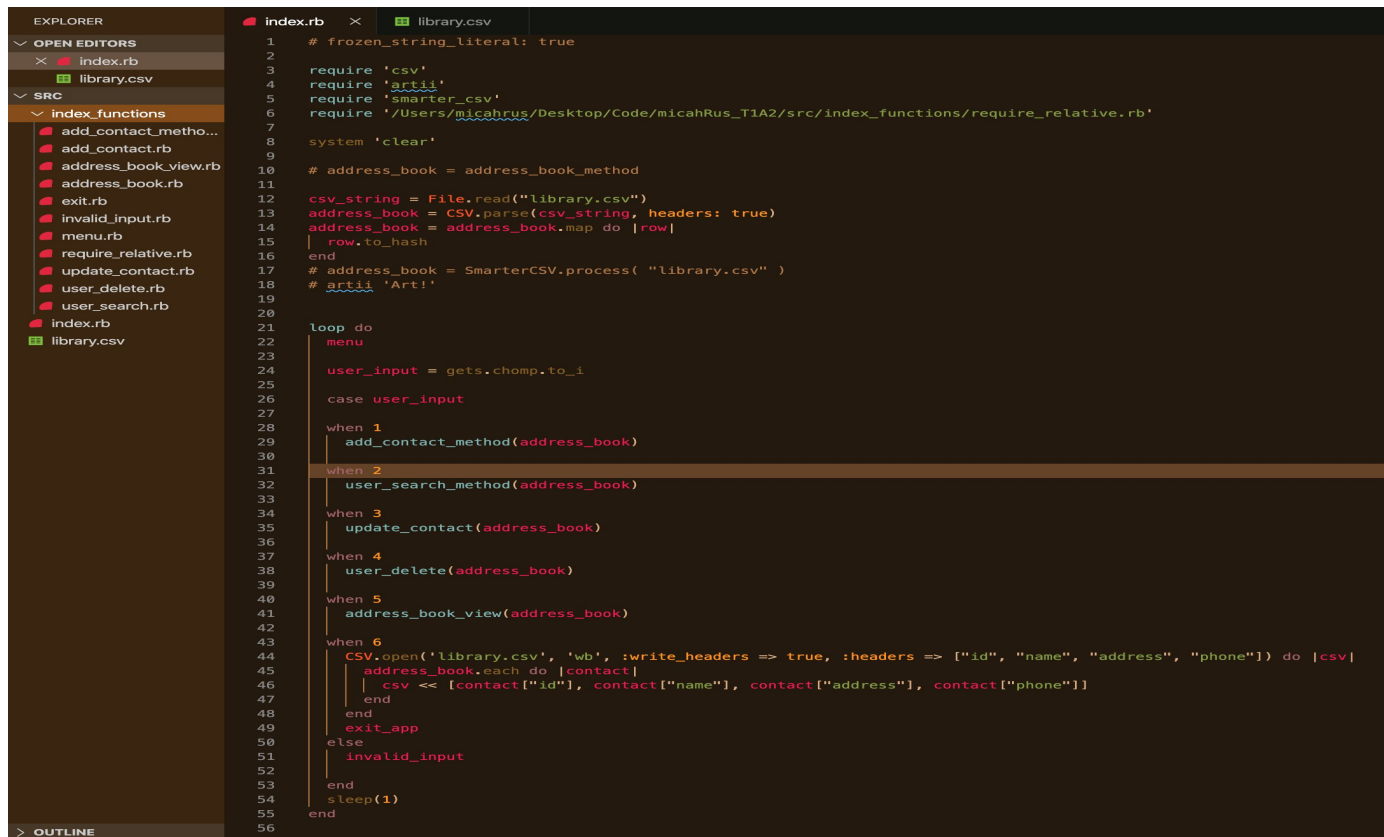
- **View address book**

Will view all contacts in the address book.

- **Exit the app**

Will Exit the application.

Code snippet



The image shows a code editor interface with a dark theme. On the left, the 'EXPLORER' sidebar shows a file tree with 'index.rb' and 'library.csv' selected. The main editor area displays the contents of 'index.rb', which is a Ruby script. The script starts with a frozen string literal and requires several libraries, including 'csv', 'artii', 'smarter_csv', and a relative path to 'require_relative.rb'. It then clears the screen and defines a menu system. The menu has six options: 1 (add_contact_method), 2 (user_search_method), 3 (update_contact), 4 (user_delete), 5 (address_book_view), and 6 (CSV operations). The script uses a loop to handle user input and a case statement to dispatch to the appropriate method. The CSV operations section opens 'library.csv' in write mode, writes headers, and iterates over a list of contacts to write their details to the file. The script ends with an exit_app call and a sleep function.

```
1 # frozen_string_literal: true
2
3 require 'csv'
4 require 'artii'
5 require 'smarter_csv'
6 require '/Users/micahrus/Desktop/Code/micahrus_T1A2/src/index_functions/require_relative.rb'
7
8 system 'clear'
9
10 # address_book = address_book_method
11
12 csv_string = File.read("library.csv")
13 address_book = CSV.parse(csv_string, headers: true)
14 address_book = address_book.map do |row|
15   | row.to_hash
16 end
17 # address_book = SmarterCSV.process( "library.csv" )
18 # artii 'Art!'
19
20
21 loop do
22   menu
23
24   user_input = gets.chomp.to_i
25
26   case user_input
27
28   when 1
29     add_contact_method(address_book)
30
31   when 2
32     user_search_method(address_book)
33
34   when 3
35     update_contact(address_book)
36
37   when 4
38     user_delete(address_book)
39
40   when 5
41     address_book_view(address_book)
42
43   when 6
44     CSV.open('library.csv', 'wb', :write_headers => true, :headers => ["id", "name", "address", "phone"]) do |csv|
45       address_book.each do |contact|
46         | csv << [contact["id"], contact["name"], contact["address"], contact["phone"]]
47       end
48     end
49     exit_app
50   else
51     invalid_input
52   end
53   sleep(1)
54 end
55
56
```