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AddressBook System

Outcome

1. Ability to work with File Handles
2. Ability to work with Database
3. Ability to save to Cloud Server
4. Ability to use Multi-Threading for IO or Network calls

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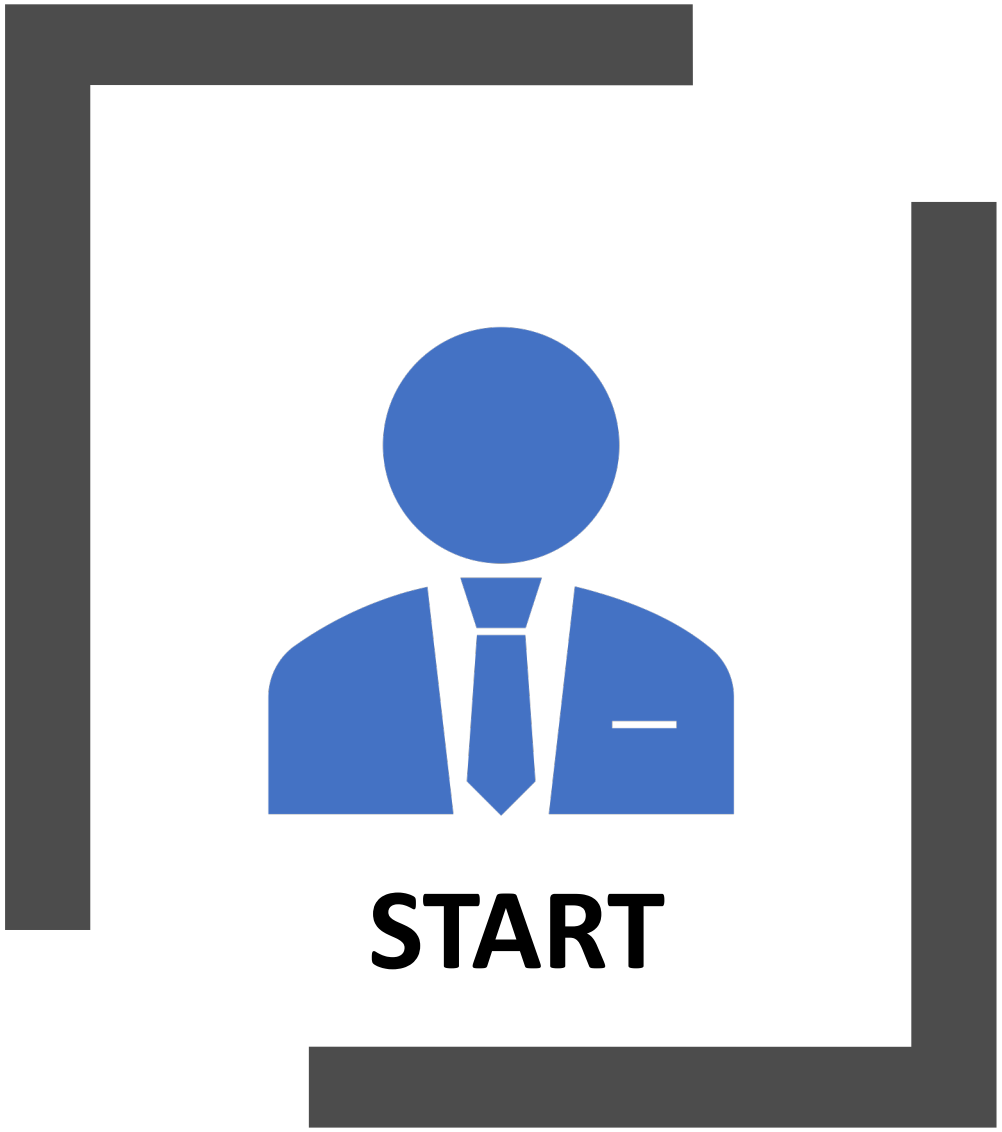

Start with Displaying Welcome to Address Book Program in AddressBookMain class on Master Branch

UC 1

Ability to create a Contacts in Address Book with first and last names, address, city, state, zip, phone number and email…

- Program is written using IDE like Visual Studio
- Every UC is in a separate Git Branch and then merged with main
- Naming Convention, Indentation, etc Code Hygiene will be checked during Review
- Git Check In Comments and Version History will be monitored

UC 2

Ability to add a new Contact to Address Book

- Use Console to add person details from AddressBookMain class
- Use Object Oriented Concepts to manage relationship between AddressBook and Contact Person

UC 3

Ability to edit existing contact person using their name

- Use Console to edit person details

UC 4

Ability to delete a person using person's name

- Use Console to delete a person

UC 5

Ability to add multiple person to Address Book

- Use Console to add person details one at a time
- Use Collection Class to maintain multiple contact persons in Address Book

UC 6

Refactor to add multiple Address Book to the System. Each Address Book has a unique Name

- Use Console to add new Address Book
- Maintain Dictionary of Address Book Name to Address Book

UC 7

Ability to ensure there is no Duplicate Entry of the same Person in a particular Address Book

- Duplicate Check is done on Person Name while adding person to Address Book.
- Use Collection Methods to Search Person by Name for Duplicate Entry
- Override **equals** method to check for Duplicate

UC 8

Ability to search Person in a City or State across the multiple Address Book

- Search Result can show multiple person in the city or state

UC 9

Ability to view Persons by City or State

- Maintain Dictionary of City and Person as well as State and Person
- Use Collection Library to maintain Dictionary

UC 10

Ability to get number of contact persons i.e. count by City or State

- Search Result will show count by city and by state

UC 11

Ability to sort the entries in the address book alphabetically by Person’s name

- Use Console to sort person details by name
- Use Collection Library for Sorting
- Override **toString** method to finally Print Person Entry in Concole

UC 12

Ability to sort the entries in the address book by City, State, or Zip

- Write functions to sort person by City, State or Zip
- Use Collection Library for Sorting

UC 13

Ability to Read or Write the Address Book with Persons Contact into a File using File IO

- Using C# File IO

UC 14

Ability to Read/Write the Address Book with Persons Contact as CSV File

- Use OpenCSV Library

UC 15

Ability to Read or Write the Address Book with Persons Contact as JSON File

- Use GSON Library

UC 16

Ability to Read or Write the Address Book with Persons Contact to a JSONServer

- Use RESTAssured.NET

UC 17

Ensure IO Operation is not blocking the main thread while doing CURD operation on any of the three data source i.e. CSV File, JSON File, or JSONServer.

UC 18

Save the AddressBook to Database and Ensure Open Close Principle is not violated when new data source is added to already three data source i.e. CSV File, JSON File, or JSONServer.

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Thank You