



# BridgeLabz

Employability Delivered

## AddressBook System

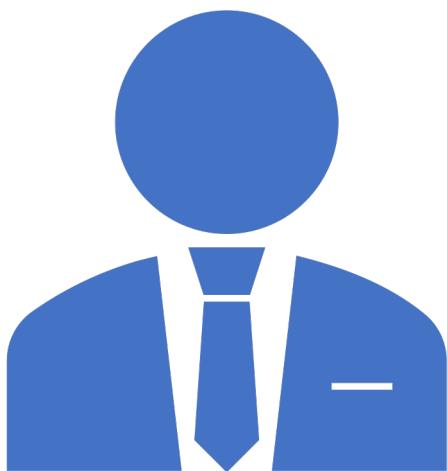
# Outcome

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



**START**

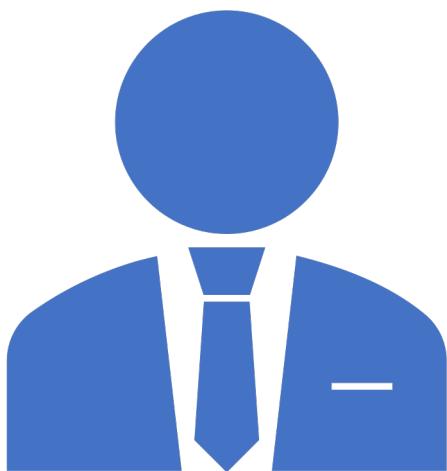
Start with Displaying  
Welcome to Address Book  
Program in  
AddressBookMain class on  
Master Branch



**UC 1**

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

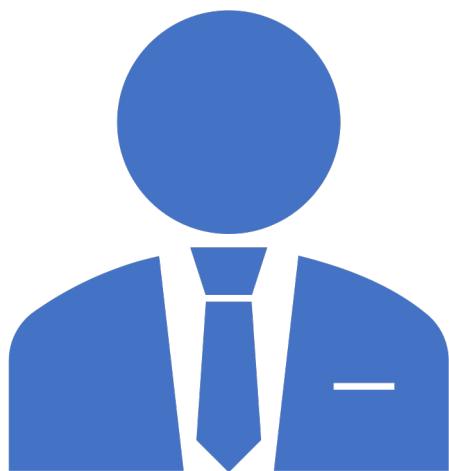
- Program is written using IDE like IntelliJ
- Every UC is in a separate Git Branch and then merged with main
- Naming Convention, Indentation, etc Code Hygiene will be checked during Review
- Git Check In Comments and Version History will be monitored



**UC 2**

## Ability to add a new Contact to Address Book

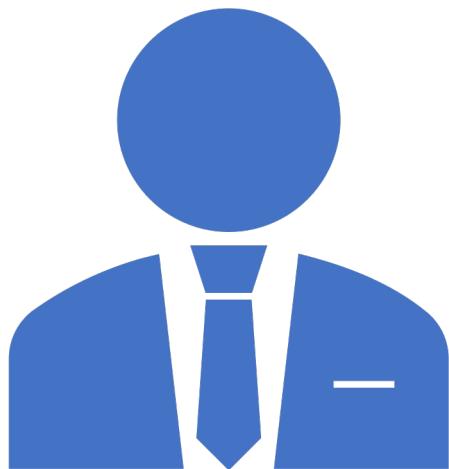
- Use Console to add person details from AddressBookMain class
- Use Object Oriented Concepts to manage relationship between AddressBook and Contact Person



**UC 3**

Ability to edit  
existing contact  
person using their  
name

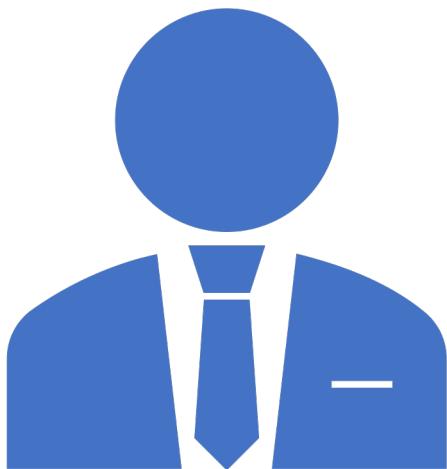
- Use Console to edit person details



**UC 4**

**Ability to delete a  
person using  
person's name**

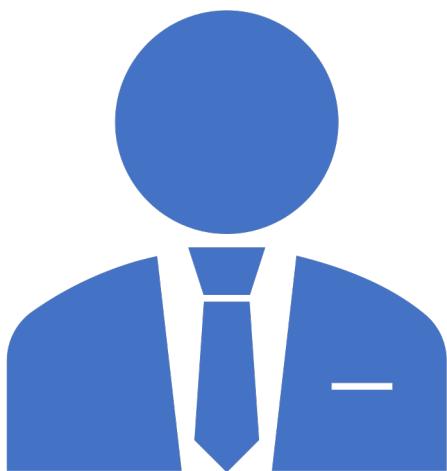
- Use Console to delete a person



**UC 5**

## Ability to add multiple person to Address Book

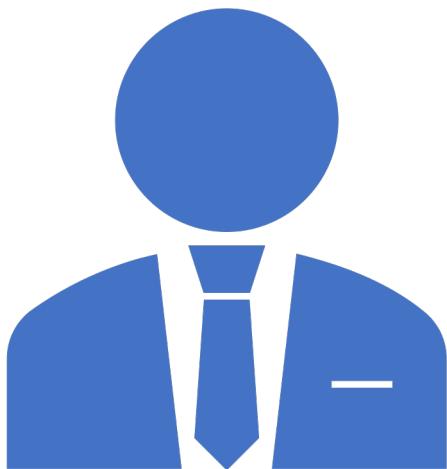
- Use Console to add person details one at a time
- Use Collection Class to maintain multiple contact persons in Address Book



**UC 6**

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

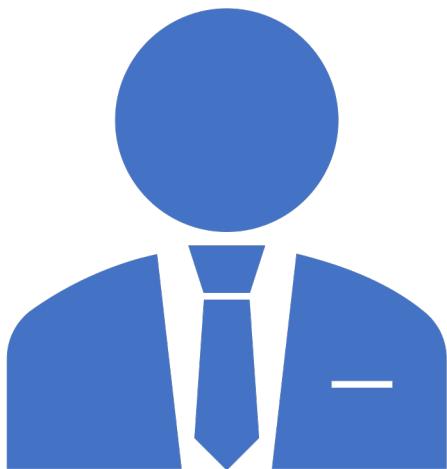
- Use Console to add new Address Book
- Maintain Dictionary of Address Book Name to Address Book



**UC 7**

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

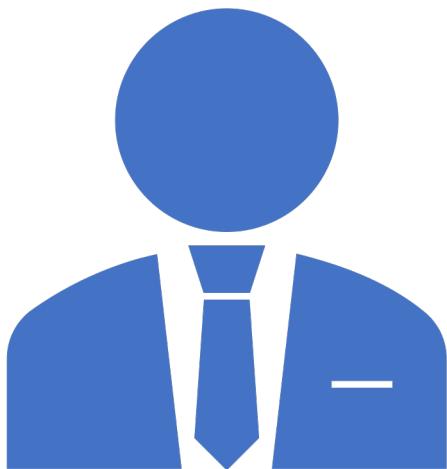
- Duplicate Check is done on Person Name while adding person to Address Book.
- Use Collection Methods to Search Person by Name for Duplicate Entry
- Override **equals** method to check for Duplicate
- Use Java Streams



**UC 8**

## Ability to search Person in a City or State across the multiple AddressBook

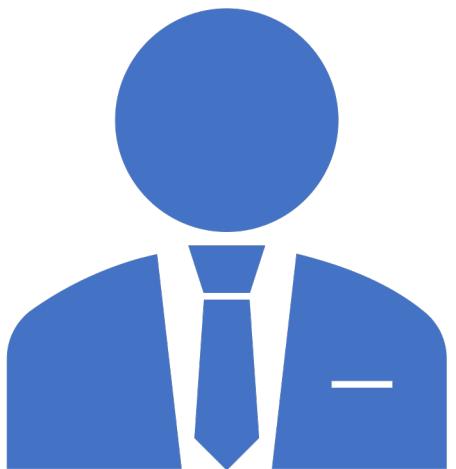
- Search Result can show multiple person in the city or state
- Use Java Streams



**UC 9**

## Ability to view Persons by City or State

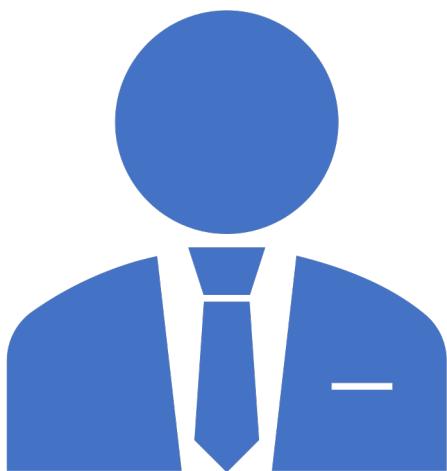
- Maintain Dictionary of City and Person as well as State and Person
- Use Collection Library to maintain Dictionary
- Use Java Streams



**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
- Use Java Streams



**UC 11**

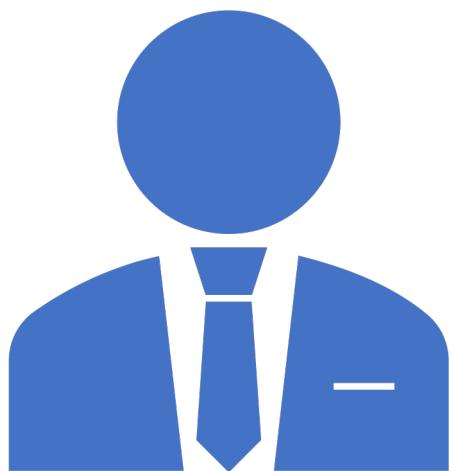
Ability to sort the entries in the address book alphabetically by Person's name

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



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
- Use Java Streams



**UC 13**

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

- Using Java File IO



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Thank  
You