



BridgeLabz

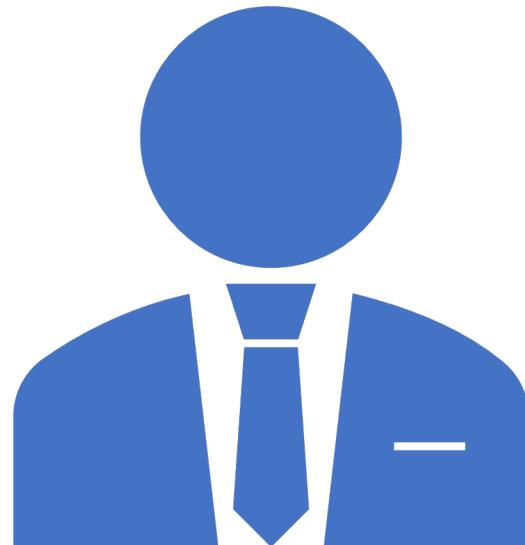
Employability Delivered

Address Book
System using
JS

Outcome

1. Ability to work JS Classes and Objects
2. Ability to use Array Operations like Filter, Map, Reduce, etc.
3. Ability to JS Patterns
4. Ability to throw Errors

Section 1: JS Classes, Objects, Arrays,...



UC 1

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

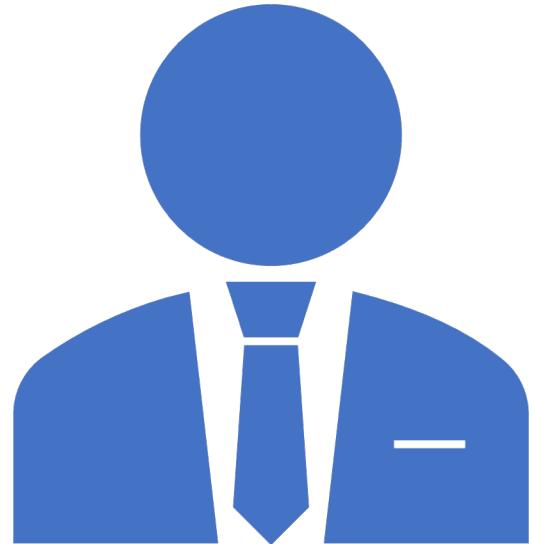
- Program is written using IDE like VSS Code
- Every UC is in a separate Git Branch and then merged with main
- Naming Convention, Indentation, etc Code Hygiene will be checked during Review
- Git Check In Comments and Version History will be monitored



UC 2

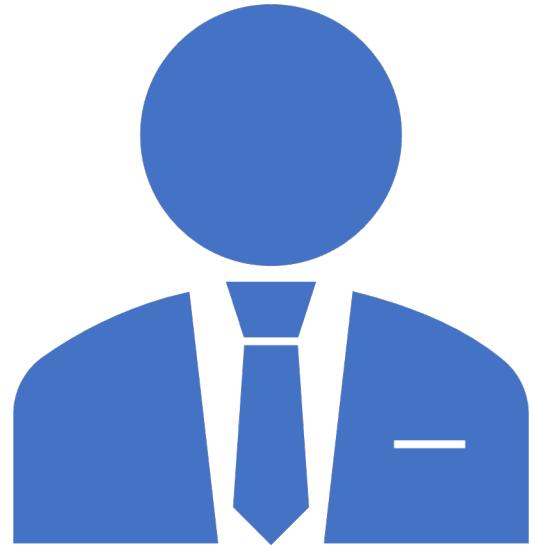
Ability to ensure Valid Contacts are added...

- First Name and Last Name should start with Capital and Minimum 3 Characters
- Address, City and State should also have minimum 4 characters
- Zip, Phone and Email should be valid as done in the Pattern Exercise
- Throw Error if the RegEx test fails



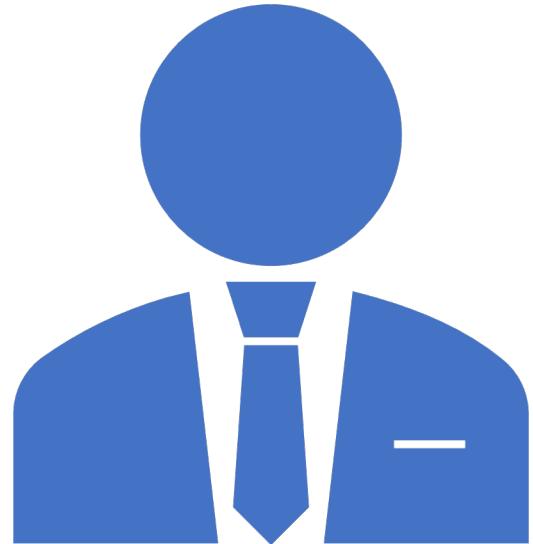
UC 3

Ability to create a
New Address Book
array and add new
Contacts to it



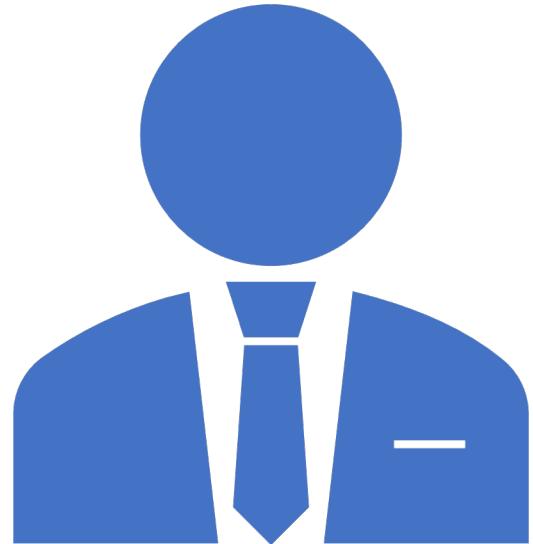
UC 4

Ability to find
existing contact
person using their
name and edit it



UC 5

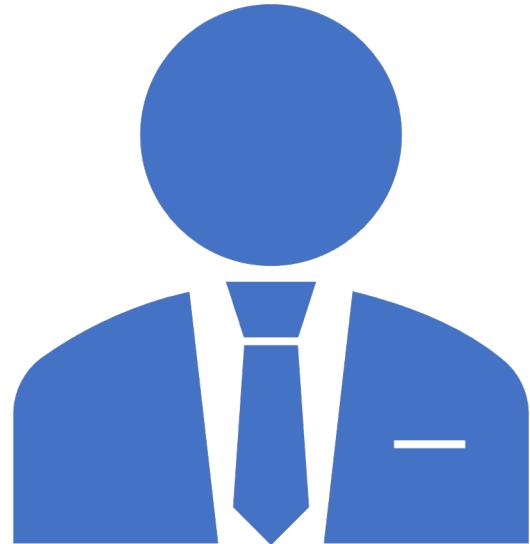
Ability to find a
person with name
delete it from the
array



UC 6

**Ability to find
number of contacts
in the address book**

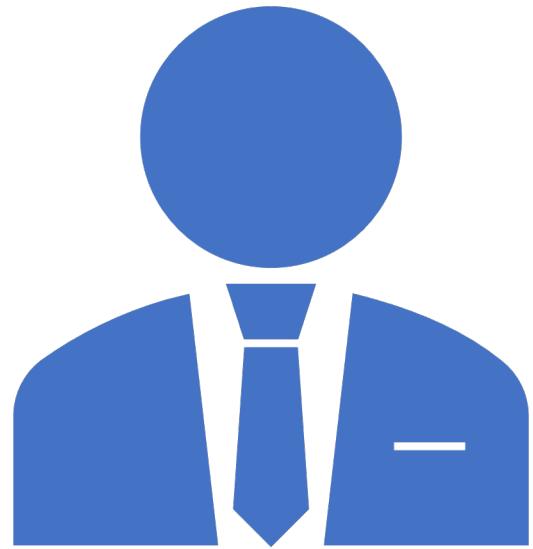
- Use Reduce function to get the count



UC 7

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

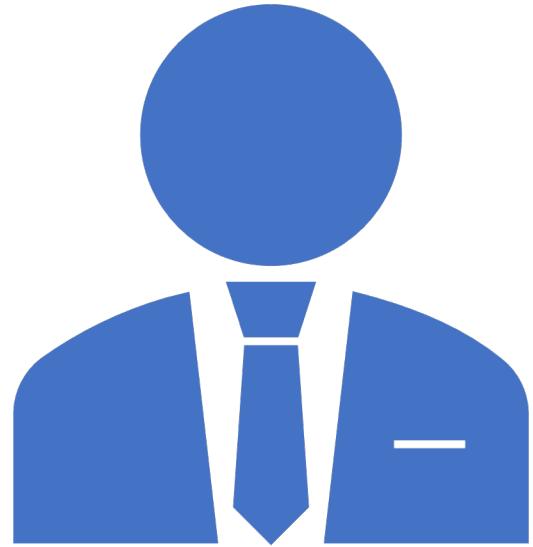
- Duplicate Check is done on Person Name before adding person to Address Book.
- Use Array Functions of filter, map, reduce, etc to do the check



UC 8

**Ability to search
Person in a particular
City or State**

- Use Array Functions of filter, map, reduce, etc to do the check



UC 9

Ability to view Persons by City or State

- Use Array Functions of filter, map, reduce, etc to do the check



UC 10

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

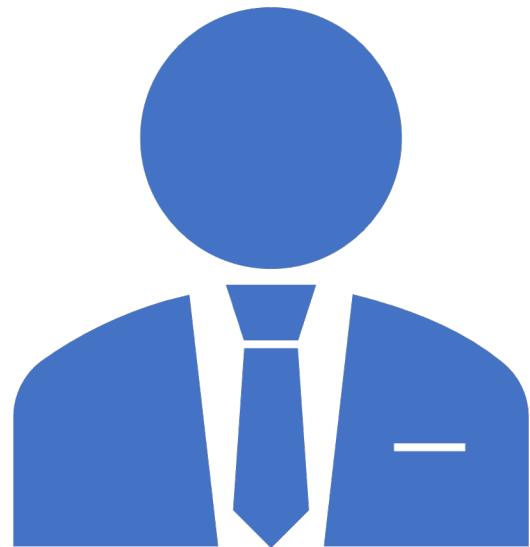
- Search Result will show count by city and by state
- Use Array Functions of filter, map, reduce, etc to do the check



UC 11

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

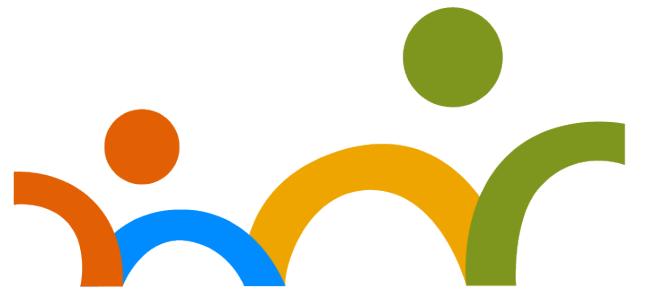
- Use Console to sort person details by name
- Use Collection Library for Sorting
- Override **toString** method to finally Print Person Entry in Concole
- Use Java Streams



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 Array Functions of filter, map, reduce, etc to do the check



BridgeLabz

Employability Delivered

Thank
You