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## User Guide Document.

This is the **user guide document** which is part of the code challenge deliverables.

Please note that other deliverables are also provided. This includes the following deliverables:

- 1. Bill of materials (BOM) document.
- 2. API documentation.
- 3. Class hierarchy, scope and purpose document.
- 4. Functionality test cases

# Executing the app

The application can be executed in one of two modes depending on the flag which was passed in. These modes are controlled by certain flags.

-s or --store: Indicates that you want to run the program in storage mode. In storage mode, the name and phone number is persisted to book.json. This serves as a persistent database object which is then used for successive runs.

```
-u or --union
```

## Executing the app in storage mode

## **Execution syntax**

```
java <-classpath|-cp> [-s] <contact name> <contact number>
or
java <-classpath|-cp> [--store] <contact name> <contact number>
```

## **Argument specification:**

```
-s or --store: These are flags which specifies the mode in which you want to execute the program.
```

```
contact name: The contact owner name.
```

contact number: the contact number.

## **Execution script**

```
java -jar dist/code-challenge-0.0.1-SNAPSHOT.jar -s Joshua 0479109809
```

or

```
java -jar dist/code-challenge-0.0.1-SNAPSHOT.jar --store Joshua 0479109809
```

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## Please note the following about the above command

The raw input passed in from command line is first parsed and validated by the InputValidationParser.

```
1. --store Joshua 0479109809 is space separated.
```

2. 0479109809 contact numbers can only contain numeric digits. That is, anything within this regex bounds ^[0-9]+\$. Anything outside this bounds would throw a InvalidPhoneNumberException.

Executing any of the above command will yield the following logs written to terminal. Please notice this in the Joshua 0479109809 last line. This was the contact number which was added.

```
$ java -jar dist/code-challenge-0.0.1-SNAPSHOT.jar --store Joshua
0479109809
2019-03-15 21:23:14,358 INFO Running address book app in store mode
2019-03-15 21:23:14,416 INFO Added new contact Contact{name='Joshua',
phoneNumber='0479109809'}
2019-03-15 21:23:14,416 INFO Displaying contact numbers ordered by name.
Joshua 0479109809
```

#### Consecutive batch execution.

Executing this command in batches will persist each individual contact to database and display the list of contacts in ascending order by name.

```
java -jar dist/code-challenge-0.0.1-SNAPSHOT.jar --store Adam 04897654367
&&
java -jar dist/code-challenge-0.0.1-SNAPSHOT.jar --store Zoe 09864567 &&
java -jar dist/code-challenge-0.0.1-SNAPSHOT.jar --store Jenny 1890876
```

You will see the following logged to terminal.

```
2019-03-15 21:47:38,799 INFO Running address book app in store mode 2019-03-15 21:47:38,859 INFO Added new contact Contact{name='Jenny', phoneNumber='1890876'} 2019-03-15 21:47:38,859 INFO Displaying contact numbers ordered by name. Adam 04897654367 Jenny 1890876 Joshua 0479109809 Zoe 09864567
```

## Executing the app in union mode

#### **Execution syntax**

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```
java -jar <classpath> [-u] {name:phoneNumber}
```

### **Execution script**

```
java -jar dist/code-challenge-0.0.1-SNAPSHOT.jar --union "
{Jenny:098765667,Asha:908654}"
```

or

```
java -jar dist/code-challenge-0.0.1-SNAPSHOT.jar -u "
{Jenny:098765667,Asha:908654}"
```

## **Argument specification:**

-u or --union: These are flags which specifies the mode in which you want to execute the program.

"{Jenny: 098765667, Asha: 908654}": JSON formatted address book 2.

## Please note the following about the above command

The raw input passed in from command line is first parsed and validated by the InputValidationParser.

- 1. "{Jenny: 098765667, Asha: 908654}" is enclosed in double quotes.
- 2. It contains name: phoneNumber pairs.
- 3. Each pair is separated by a comma.

You will see the following logged to terminal on successful execution.

```
$ java -jar dist/code-challenge-0.0.1-SNAPSHOT.jar --union "
{Jenny:098765667,Asha:908654}"
2019-03-15 22:00:28,783 INFO Running address book app in union mode
2019-03-15 22:00:28,842 INFO Displaying unique entries
Book 1/Book 2: {Adam=04897654367, Asha=908654, Joshua=0479109809,
Zoe=09864567}
```