### Test Procedure

### Item: Local help message

|  |  |
| --- | --- |
| Local command (GitBash) | ***java -jar build/libs/addressbook-all-1.3.0.jar -h*** |
| URL in a browser | none |
| What to observe locally | Then you should a help message locally as shown in Appendix I. |

**Note:**

The above command is for under ***GitBash***.

If under DOS Prompt, be sure to replace those forward slash ‘/’ in the path of the command with backward slash ‘\’.

### Item: Welcome message and list of registered endpoints

|  |  |
| --- | --- |
| Local command (GitBash) | *Control-C to close previous started process, then*  ***java -jar build/libs/addressbook-all-1.3.0.jar -d db1.xml db2.xml*** |
| URL in a browser | [***http://localhost:8000/addressbook***](http://localhost:8000/addressbook)***, w***here ‘8000’ is the port number. |
| What to observe - browser | *Expect to see message as screenshot shown in Appendix II.* |

### Item: About message

|  |  |
| --- | --- |
| Local command (GitBash) | ***none*** |
| URL in a browser | [***http://localhost:8000/addressbook/about***](http://localhost:8000/addressbook/about) |
| What to observe - browser | *Expect to see About message as screenshot shown in Appendix III.* |

### Item: List of contacts previous loaded from external database files

|  |  |
| --- | --- |
| Local command (GitBash) | none |
| URL in a browser | [***http://localhost:8000/addressbook/list***](http://localhost:8000/addressbook/list) |
| What to observe - browser | Expect to see a list of four contacts in JSON form as follows  *{{fullname:Russell Crowe, phone:+61365432109}*  *{fullname:Matt Demon, phone:+61376543210}*  *{fullname:Clint Eastwood, phone:+61398765432}*  *{fullname:Robin Williams, phone:+61387654321}}* |

### Item: Change of database XML file should take effect

Locally, close previous background process with Control-C, and issue following command, which has option ‘–d’ removed:

|  |  |
| --- | --- |
| Local command (GitBash) | Control-C to close previous started process, and issue following command, which has option ‘–d’ removed:  ***java -jar build/libs/addressbook-all-1.3.0.jar*** |
| URL in a browser | [***http://localhost:8000/addressbook/list***](http://localhost:8000/addressbook/list) |
| What to observe - browser | *Expect to see a list of 12 contacts in JSON form as follows*  *{{fullname:Joy Kao, phone:+61367894321}*  *{fullname:Russell Crowe, phone:+61298765432}*  *{fullname:Spenser H. Kao, phone:+61387654321}*  *{fullname:John Kao, phone:+61343215678}*  *{fullname:John Spenser Smith, phone:+61298765432}*  *{fullname:Spenser Williams, phone:+61387654321}*  *{fullname:Matt Demon, phone:+61284442211}*  *{fullname:Clint Eastwood, phone:+61398765432}*  *{fullname:George Walker Bush, phone:+61377778888}*  *{fullname:George Herbert Walker Bush, phone:+61366559988}*  *{fullname:Mary Kao, phone:+61387654321}*  *{fullname:Robin Williams, phone:+61387654321}}* |

### Function: Search function

|  |  |
| --- | --- |
| Local command (GitBash) | none |
| URL in a browser | [*http://localhost:8000/addressbook/search/George\*Bush*](http://localhost:8000/addressbook/search/George*Bush) |
| What to observe - browser | *With implemented wildcard pattern, the above parameter should find two contacts as show below:*  *{{fullname:George Walker Bush, phone:+61377778888}*  *{fullname:George Herbert Walker Bush, phone:+61366559988}}* |

### Function: Remove function

|  |  |
| --- | --- |
| Local command (GitBash) | none |
| URL in a browser | [*http://localhost:* *8000/addressbook/remove/Joy\**](http://localhost:4567/addressbook/remove/Joy*) |
| What to observe - browser | *removed 1 matching contact(s)* |

### Function: Add function

|  |  |
| --- | --- |
| Local command (GitBash) | none |
| URL in a browser | [*http://localhost:* *8000/addressbook/add?fullname=Jack London&phone=53543388*](http://localhost:%208000/addressbook/add?fullname=Jack%20London&phone=53543388) |
| What to observe - browser | ***Successful contact addition with fullname Jack London and phone 53543388*** |

### Function: Save function – when default database file has been loaded

|  |  |
| --- | --- |
| Local command (GitBash) | None |
| URL in a browser | Following the “add” function exemplified above, enter URL below to save the change to contacts. [*http://localhost: 8000/addressbook/save*](http://localhost:%208000/addressbook/save) |
| What to observe - browser | Expect to see positive message pertaining to the function something like:  ***Successful saving of contacts change back to default-db.xml if retrieved at start-up.*** |

### Function: Save function – when non-default database files have been loaded, via ‘–d’ option

|  |  |
| --- | --- |
| Local command (GitBash) | Locally, close previous background process with Control-C, and issue following command, which has option ‘–d’ provided:  ***java -jar build/libs/addressbook-all-1.3.0.jar -d db1.xml db2.xml*** |
| URL in a browser | [*http://localhost:* *8000/addressbook/add?fullname=Some One&phone=88776655*](http://localhost:%208000/addressbook/add?fullname=Some%20One&phone=88776655)*, then* [***http://localhost: 8000/addressbook/save***](http://localhost:%208000/addressbook/save) |
| What to observe - browser | Expect to see negative message pertaining to the function something like:  ***As current contacts weren't loaded from default XML-based file, to which no saving of contacts change will take place.*** |

## Appendix I – Help message

### Usage: java -jar build/libs/addressbook-all-1.3.0.jar [-options]

### where options include:

### -d <dbFile1> [<dbFile2>... <dbFileN>]

### Specifies XML-based db files, which must be with 'xml' extension.

### By default, which is no '-d' option and associated db(s) specified, there will be a default dbFile remembered in AddressBook.peoperties.

### -h

### Print this help message.

## Appendix II – Welcome Message and List of Registered Endpoints

## 

Figure - Welcome message and list of registered endpoints

## Appendix III – About Message

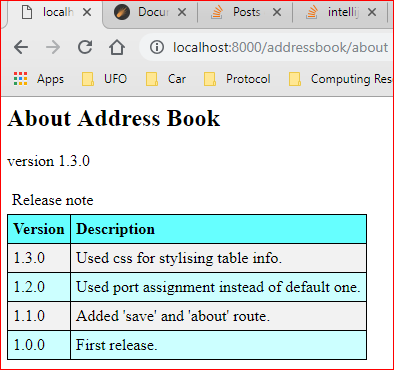


Figure - About message