

Project: NeoXPro Manager

NeoXPro is a desktop address book application used for teaching Software Engineering principles. The user interacts with it using a CLI, and it has a GUI created with JavaFX. It is written in Java, and has about 6 kLoC.

Code contributed: [Functional code] [Test code] [Unused code]

Enhancement Added: phone

External behavior

Locating persons by phone number.

Start of Extract [from: User Guide]

Locating persons by phone number: phone (since v1.1)

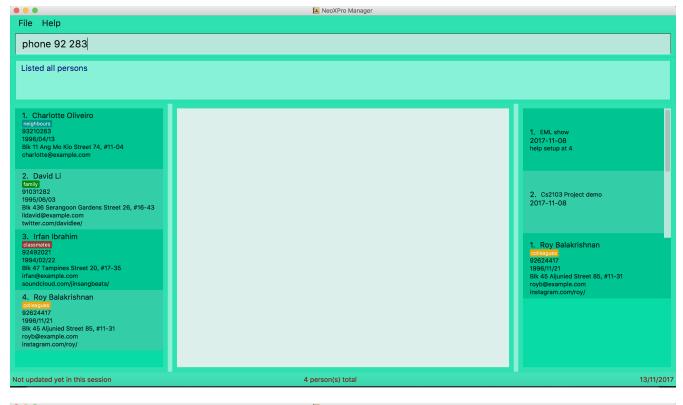
Finds person whose phone numbers partially match with a number in the specified list Format: phone NUMBER [MORE_NUMBERS]

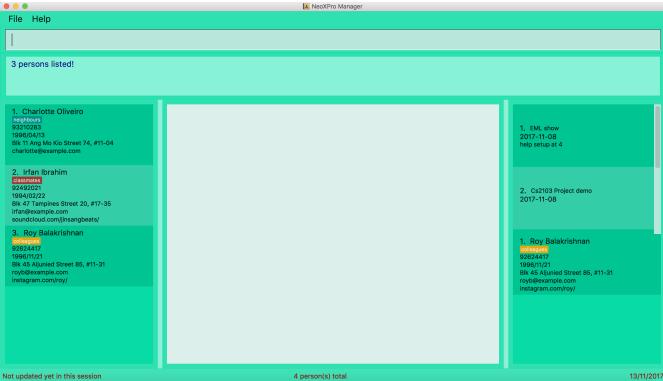
- The order of numbers being queried does not matter.
- Only the phone number is searched.
- Partial string number will be matched with phones e.g. 12345 will match 123456

Examples:

- phone 92
 Returns persons with phone numbers containing 92.
- phone 92 65
 Returns persons with phone numbers containing 92 or 283.

The second example is illustrated below:





End of Extract

Justification

Searching a contact by partial chain of number is a convenient and efficient feature especially when user has to deal with a large contact list.

For example, a user Michael wants to search for his best friend John Cena in NeoXPro. Unfortunately there are 6 contacts with the same name John Cena stored in NeoXPro so using find command confuses Michael a lot with 6 output contacts. However, using phone command, Michael

can directly search for his best friend immediately via his phone.

Implementation

Start of Extract [from: Developer Guide]

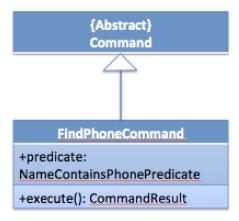
Phone command

The phone command utilize the same implementation as the Find command for name. Instead of logic execute search via Name attribute of Person, the command search for the phone attribute.

The phone command is handled by the class FindPhoneCommand that inherits from Command class.

Name and Phone API structure is roughly similar that they allow to extract value of the object. The search algorithm utilizes a class NameContainsPhonesPredicate implements Predicate<ReadOnlyPerson> which allows the algorithm to use Java Predicate class method.

The diagram demonstrating phone command structure is illustrated here:



End of Extract

Enhancement Added: Profile Page

External behavior

Allow user to optionally store the profile page of each person in contact list. The profile page for a person will appear in UI as long as it is stored. When a person is selected, his/her profile page will be loaded in UI.

Start of Extract [from: User Guide]

Adding a person: add

Adds a person to the address book

Format: add n/NAME [p/PHONE_NUMBER] [e/EMAIL] [b/BIRTHDAY] [a/ADDRESS] [pr/PROFILE_PAGE] [t/TAG] \cdots

TIP

A person can have any number of tags (including 0). All fields are optional except the person name.

Examples:

- add n/John Doe p/98765432 e/johnd@example.com b/1995/5/21 a/John street, block 123, #01-01 pr/www.facebook.com/john
- add n/Betsy Crowe t/friend e/betsycrowe@example.com a/Newgate Prison p/1234567 b/1999/10/10 t/criminal

End of Extract

Justification

With the profile page stored for each person, NeoXPRO enhances the user's experience.

Implementation

Start of Extract [from: Developer Guide]

Add Profile Page

The profile page parameter is facilitated by the class ProfilePage.

In order to add this parameter profile page, we make modifications to UI, Logic, Model and Storage components.

• UI Component:

PersonCard, which resides in UI component, frist creates a label for profile page parameter:

```
@FXML
    private Label profile;
```

Then PersonCard binds the label with the value of ProfilePage object. If the input value for ProfilePage object is null, it make the label dissapear from UI by setting its visibility to FALSE:

```
private void bindListeners(ReadOnlyPerson person) {
    //... binding other labels ...

if (!person.profilepageProperty().toString().equals("")) {
    profile.textProperty().bind(Bindings.convert(person.profilepageProperty()));
    profile.setVisible(true);
} else {
    profile.setVisible(false);
}
//... binding other labels ...
}
```

In order to make select command load a person's ProfilePage object if it exists, we modify method handlePersonPanelSelectionChangedEvent() in BrowserPanel that is in charge of updating a person panel:

```
private void handlePersonPanelSelectionChangedEvent(PersonPanelSelectionChangedEvent
event) {
    //...
    if (person.getProfilePage().hasProfilePage()) {
        loadProfilePage(person);
    } else {
        loadPersonPage(person);
    }
}
```

• Logic Component:

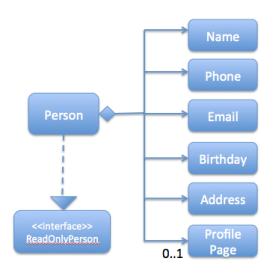
The prefix for profile page pr/ is added to CliSyntax. Then the following files AddCommand, EditCommand, AddCommandParser and EditCommandParser are modified so that add and edit commands accept the new parameter profile page.

AddCommandParser does not check for profile page prefix pr/ as this is an optional parameter.

• Model Component:

Class ProfilePage is used to store profile page property of class Person. Class Person, which resides in model component and implements ReadOnlyPerson interface, form a composition association with ProfilePage.

As profile page is an optional parameter, a Person can be linked to 0 or 1 ProfilePage object. The relationship is illustrated in the following diagram:



• Storage Component:

xmlAdaptedPerson file is used to save information of a person in xml format.

The required parameter of @XmlElement element which stores profile page information is set to false to make this property optional:

```
@XmlElement(required = false)
    private String profile = "";
```

End of Extract

Enhancement Added: Improve delete command

External behavior

Using 'delete' command, user can now delete multiple persons from the contact list at a time.

Start of Extract [from: User Guide]

Deleting a person: delete

Deletes a list of specified persons from the address book.

Format: delete INDEX [MORE_INDICES]

- Deletes the persons at the specified `INDEX's.
- The index refers to the index number shown in the most recent listing.
- The index must be a positive integer 1, 2, 3, ...

Examples:

• list delete 2 1

Deletes the 1st and 2nd person in the address book.

• find Betsy delete 1

Deletes the 1st person in the results of the find command.

End of Extract

Justification

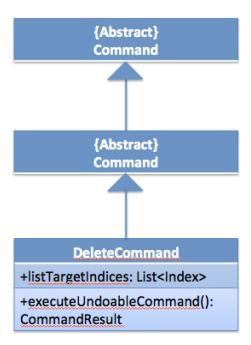
Users now don't have to manually delete each contact at a time.

Implementation

Start of Extract [from: Developer Guide]

Delete command

delete command supports modifying the state of address book by deleting all persons whose indices are specified in the input. It inherits from UndoableCommand.



The implementation of delete contains 2 classes: DeleteCommand and DeleteCommandParser inside the logic component.

DeleteCommandParser, the parser of delete, parses user's input into the variable input: List<Index> that store a list of Index. DeleteCommand, which handles the logic of delete command, then iteratively remove any Person object with Index specified in input.

```
public class DeleteCommandParser implements Parser<DeleteCommand> {
    public DeleteCommand parse(String args) throws ParseException {
        try {
            List<Index> input= new ArrayList<Index>();
            // ... Parser logic ...
            return new DeleteCommand(input);
        } catch (IllegalValueException ive) {
            // throw exception here
        }
    }
}
```

And finally, we add the delete command to the class 'AddressBookParser' so that delete command is recognized whenever invoked.

End of Extract

Enhancement Added: export

External behavior

Export the contact list of NeoXPRO into a text file.

Start of Extract [from: User Guide]

Exporting the data: export

Address book data is exported in text form to the input file path. Format: export [File_Path]

- The [File_Path] must contain the file name of the exported file. E.g. export c:\documents and settings\all users\desktop\exportedData
- The [File_Path] can be just the file name of the exported file instead of the file path. In this case, export command will export the file [File_Path] to the current directory.
- The [File_Path] can be blank. In this case, export command will export the file with default name "exportFile.txt" to the current directory.

Examples:

- export c:\documents and settings\all users\desktop\exportedData Exports the file "exportedData" to the specified path.
- export exportedData

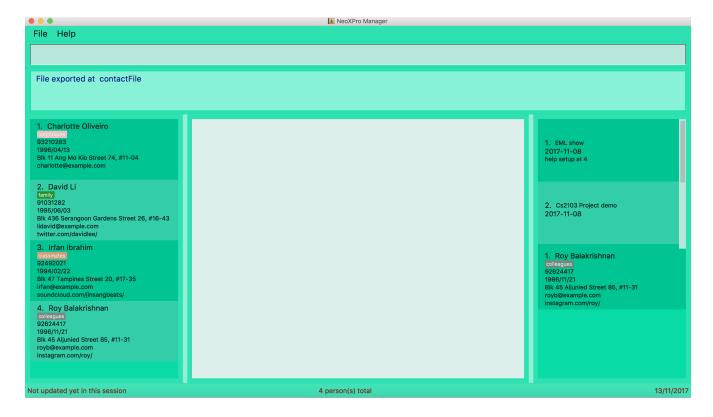
 Exports the file "exportedData" to the current directory of NeoXPro.

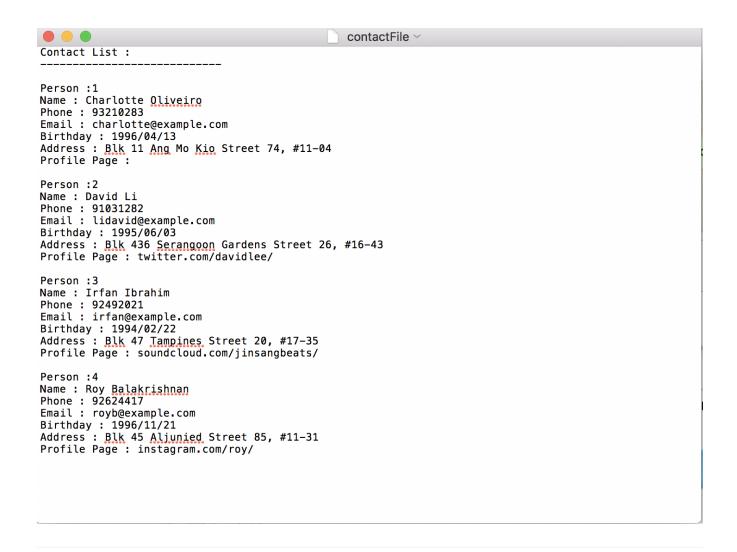
• export

Exports the file "exportFile.txt" to the current directory of NeoXPro.

End of Extract

The UI of NeoXPro and the result exported file after the execution of command export contactFile are illustrated below:





Justification

With this feature, user can easily make use of the data in contact list.

Implementation

Start of Extract [from: Developer Guide]

Export Command

export access the file addressbook.xml to retrieve each person and his/her properties and write it on the file at the specified input. Its implementation contains 2 classes: ExportCommand and ExportCommandParser.

The parser ExportCommandParser of export parses the file path input as a String to ExportCommand. ExportCommand, which handles the logic of export command, then writes the exported file on the specified input file path.

End of Extract

Enhancement Added: Improve Select command

External behavior

When a person is selected, his/her profile page is displayed (if it's stored)

Start of Extract [from: User Guide]

Selecting a person: select

Selects the person identified by the index number used in the last person listing.

Format: select INDEX

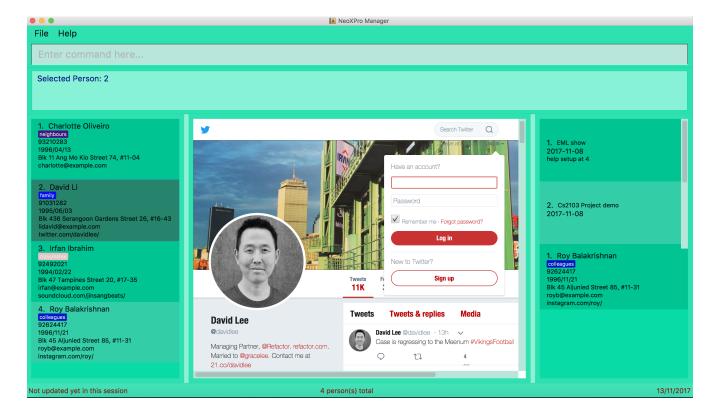
- Selects the person at the specified INDEX.
- If the person has a valid profile page, address book loads that profile page. Otherwise, it loads the Google search page of the person.
- The index refers to the index number shown in the most recent listing.
- The index must be a positive integer 1, 2, 3, ...

Examples:

• list select 2

Selects the 2nd person in the address book.

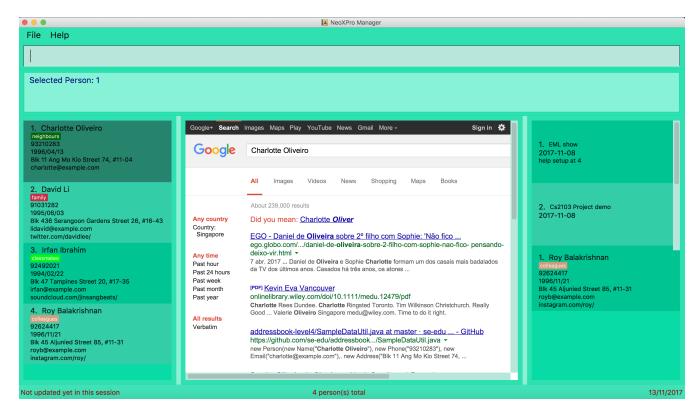
The 2nd person in the list has the profile page "twitter.com/davidlee"



• find John select 1

Selects the 1st person in the results of the find command.

The 1st person in the list does not have the profile page in address book.



End of Extract

Justification

Let users easily access social media and improve experience. Employers can also make use of this feature to quickly access candidates' CVs or profile pages.

Implementation

In order to make select command load a person's ProfilePage object if it exists, we modify method handlePersonPanelSelectionChangedEvent() in BrowserPanel that is in charge of updating a person panel:

```
private void handlePersonPanelSelectionChangedEvent(PersonPanelSelectionChangedEvent
event) {
    //...load `person` from the `select` command...
    if (person.getProfilePage().hasProfilePage()) {
        loadProfilePage(person);
    } else {
        loadPersonPage(person);
    }
}
//...
private void loadProfilePage(ReadOnlyPerson person) {
        //This method load the profile page of the in
        loadPage("https://" + person.getProfilePage().toString());
}
```

The method loadProfilePage(ReadOnlyPerson person) is implemented to load the profile page of the input person.

Other contributions

- Fix bugs due to merge conflicts for team (Pull requests #70, #45)
- Write additional tests to increase coverage by 1.4% (Pull requests #89, #99)