**QualitySoft: UseCases for Contact List Project**

**Use Case 1**: Enter a new person into the contact list

**Actors**: user

**Preconditions**: The user has chosen to enter a new person into the contact list

**Primary course**: The user enters first name, last name, street address, email address, phone number and notes.

**Alternate courses**:

1) If the user leaves one or more of the fields blank, the person will still be entered into the contact list.

**Exception courses**:

1) If the user leaves the last name blank, then the person will not be entered into the contact list.

**Postconditions**: The new person is stored in the contact list in memory.

When you run the ConsoleMain()

enter "add" to add a person

enter "save" to save the contact list

enter "searchbylast" to search the people by last name

enter "open" to open the contact list in a file

enter "print" to print the whole contact list

enter "exit" to quit the program

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add

Enter the first name.

Kevin

Enter the last name.

Rapp

Enter the street address.

1400 Jones Street

Enter the email address.

kevin.r.rapp@gmail.com

Enter the phone number.

516-867-5309

Enter the notes.

Cool guy

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print

First Name: Kevin

Last Name: Rapp

Address: 1400 Jones Street

Email: kevin.r.rapp@gmail.com

Phone: 516-867-5309

Notes: Cool guy

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add

Enter the first name.

Kevin

Enter the last name.

Enter the street address.

320 Muffin Street

Enter the email address.

muffin@muffin.com

Enter the phone number.

734-213-6273

Enter the notes.

These are some notes

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Please enter a last name

**Use Case 2**: Print the contact list

**Actors**: user

**Preconditions**: The user has chosen to print the entire contact list

**Primary course**: The system prints all information about all contacts to the console, sorted by last name.

**Alternate courses**: none

**Exception courses**: none

**Postconditions**: The contact list is printed to the console, sorted by name. If there are two contacts with matching last names, these two contacts will be ordered by first name.

On top of the Person object added in the top (Kevin Rapp), I have added three additional Person objects (Larry Rapp, Stanley Yelnats, Bruce Wayne) for proof of this case.

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print

First Name: Kevin

Last Name: Rapp

Address: 1400 Jones Street

Email: kevin.r.rapp@gmail.com

Phone: 516-867-5309

Notes: Cool guy

First Name: Larry

Last Name: Rapp

Address: 1400 Jones Street

Email: larry@rapp.com

Phone: 516-326-1763

Notes: Father of 3

First Name: Bruce

Last Name: Wayne

Address: 1 Gotham Manor

Email: bruce@imnotbatman.com

Phone: 734-231-4321

Notes: Pretty sure he is Batman

First Name: Stanley

Last Name: Yelnats

Address: 21 Holes Street

Email: Stanley@leadactorofholes.com

Phone:

Notes: Lead guy from the book Holes

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**Use Case 3**: Retrieve a person's information by last name

**Actors**: user

**Preconditions**: The user has chosen to retrieve a person's information from the contact list by last name

**Primary course**: The user enters a last name, and the system displays all of the information that was previously entered on that person.

**Alternate courses**:

1) If there is no one in the contact list with the given last name, the system will display a message to the user telling her that.

2) If there is more than one person in the contact list with the given last name, then all of the people with that last name will be displayed.

**Exception courses**: none

**Postconditions**: All contacts with the given last name are displayed.

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searchbylast

Last Name:

Rapp

First Name: Kevin

Last Name: Rapp

Address: 1400 Jones Street

Email: kevin.r.rapp@gmail.com

Phone: 516-867-5309

Notes: Cool guy

First Name: Larry

Last Name: Rapp

Address: 1400 Jones Street

Email: larry@rapp.com

Phone: 516-326-1763

Notes: Father of 3

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searchbylast

Last Name:

Smith

There is no user with the specified last name

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**Use Case 4**: Quit the program and save to disk

**Actors**: user

**Preconditions**: The user has chosen to quit the contact list program.

**Primary course**: The system saves the current contact list to disk and exits gracefully.

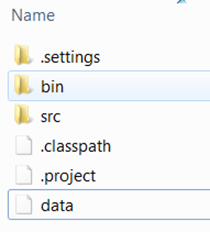
**Alternate courses**: none

**Exception courses**: none

**Postconditions**: There is a data file on the disk containing all of the current contact information.

Saves a file in the WorkSpace called “data” that contains the information entered in. Recheck that it works by reprinting the contact list:

Picture of the file “data” saved to disk

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Will prove it loaded by calling print function

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print

First Name: Kevin

Last Name: Rapp

Address: 1400 Jones Street

Email: kevin.r.rapp@gmail.com

Phone: 516-867-5309

Notes: Cool guy

First Name: Larry

Last Name: Rapp

Address: 1400 Jones Street

Email: larry@rapp.com

Phone: 516-326-1763

Notes: Father of 3

First Name: Bruce

Last Name: Wayne

Address: 1 Gotham Manor

Email: bruce@imnotbatman.com

Phone: 734-231-4321

Notes: Pretty sure he is Batman

First Name: Stanley

Last Name: Yelnats

Address: 21 Holes Street

Email: Stanley@leadactorofholes.com

Phone:

Notes: Lead guy from the book Holes

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**Use Case 5**: Start the program and open the existing data file on disk

**Actors**: user

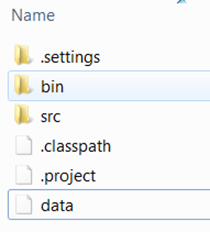
**Preconditions**: The user has chosen to start the contact list program.

**Primary course**: The system finds the current contact list file on disk, opens it and reads it into the list in memory.

**Alternate courses**: If there is no contact list data file on disk, then the system begins with an empty contact list.

**Exception courses**: none

**Postconditions**: There is a contact list in memory containing any contacts that were entered previously.

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Will prove it loaded by calling print function

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print

First Name: Kevin

Last Name: Rapp

Address: 1400 Jones Street

Email: kevin.r.rapp@gmail.com

Phone: 516-867-5309

Notes: Cool guy

First Name: Larry

Last Name: Rapp

Address: 1400 Jones Street

Email: larry@rapp.com

Phone: 516-326-1763

Notes: Father of 3

First Name: Bruce

Last Name: Wayne

Address: 1 Gotham Manor

Email: bruce@imnotbatman.com

Phone: 734-231-4321

Notes: Pretty sure he is Batman

First Name: Stanley

Last Name: Yelnats

Address: 21 Holes Street

Email: Stanley@leadactorofholes.com

Phone:

Notes: Lead guy from the book Holes

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