

QualitySoft: Use Cases for Contact List Project

We have contracted with the client to implement and test the following five use cases.

Use Case Name: Enter a new person into the contact list

ID number: 1

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

Exception course: 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.

Use Case Name: Print the contact list

ID number: 2

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.

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

ID number: 3

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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Use Case Name: Quit the program and save to disk

ID number: 4

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.

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

ID number: 5

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.

The following Use Case #1a would be "nice to have." This use case would replace the Use Case #1 as specified above. Do not spend any time working on this until you have a fully functioning program that satisfies the first 5 use cases.

Use Case Name: Enter a new person

ID number: 1a

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.

2) If the user cancels out of the operation in the middle, the person will not be entered into the contact list.

Exception courses:

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

2) If the user enters an email address that does not satisfy the correct syntax for an email address, the system asks the user to reenter.

3) If the user enters a phone number that does not satisfy the correct syntax for a phone number, the system asks the user to reenter.