**User Stories & Elaboration**

User Story 1

As a head office administrator I want to be able to produce formatted output of all the information about our pet shops so that I can easily incorporate it in documents and reports.

* The user should be able to search for a particular shop, by entering a keyword
* Error Detection: The user should be able to search for a shop by entering a substring e.g. “otte” instead of “Potters Pets.”
* Error Detection: The search system is not to be case sensitive
* Feedback on system status: If the user hits the search button, without entering a keyword, the program should display a message, informing users that nothing has been entered
* Feedback on system status: If no results are found, the system must display a message, informing users that no results have been found
* Once the user hits the search button, the text in the textbox is to be empty, ready for new input
* **Control & freedom: A button must be available to obtain the last keyword that was searched. Once the user clicks on this, the text in the textbox should change to the last searched term, to allow modification.**
* **Prevent user from recalling information: Once the user hits the search button, the keyword searched, should be displayed, above the results, (e.g. you searched for: "pets")**
* The data is stored in a .CSV file
* **The user should be presented with a drop down list of shops, to save them searching for one manually.**
* **There should also be a drop down list of categories displayed, under each shop (pets available, opening times etc)**
* The information must be able to be copied and pasted between apps
* The app must be user-friendly
* The app must meet industry standards in terms of white space, dialog box positioning etc.
* The final data should be displayed in a table, to allow for easy copying & pasting, instead of the user working through a sea of words within a paragraph.

User Story 2

As a head office administrator I want to be able to sort the formatted output according to the name of the shop so that I can produce an alphabetic directory listing that can be easily incorporated into documents and reports.

* The system should read the data from the CSV file.
* **The user can sort out the output by the different attributes.**
* **There will an option to sort out the list in a drop down list of the attributes displayed**

**(For pet species, gender, price etc.  
For shops, names, location etc.)**

* **User feedback : “you sorted by species name”**
* **Highlight the attribute it’s sorted by.**
* **The output values are all in alphabetical order.**
* **The output values match the data file.**
* **They are sorted via different attributes.**
* This information must be able to copy and pasted between applications.
* The app must meet industry standards in terms of white space, dialog box positioning etc.

User Story 3

As a head office administrator I want to be able to view the formatted output in a graphical interface so that I can easily find information for a particular shop and can copy and paste that information to other windows applications.

* The app must meet industry standards in terms of white space, dialog box positioning etc.
* Align screen elements and groups.
* Create groupings.
* Provide meaningful contrasts between screen elements.
* Present common and necessary functions boldly in the interface.
* This information must be able to copy and pasted between applications.
* Display must be easy to identify and interpret, should also be appealing and attractive.
* Screen elements must be consistent.
* Dialog must have a consistent thematic navigation.
* System feedback for user's actions that was bold.
* Permit the user to reverse basic actions.

Jtables and JTextArea objects will be placed on top of a main JFrame, instantiated through variables and have an actionListener method checking whether they are being used. These listener methods will be applied to each object.

User Story 4

As a head office administrator I want to be able to summarise information about the opening and closing times of our shops so that I can provide an overview of retail service provision for our monthly reports.

* The system should be able to present only a shop’s times (opening and closing) so that the user can be satisfied with seeing only the relevant data.
* **After the opening and closing times have been summarised, an option to export these to a csv file (or possibly a file of their own choice) should be available.**
* **An administrator should be able to edit these times initially, however it is likely that they cannot be edited after they have been summarised.**
* **A drop down list should be implemented allowing the administrator to choose the method of summarisation, and another one allowing them to select which store to perform it on.**
* **The times should be sorted in some order**
* **When editing the times, only integers should be allowed**
* The shop’s title must be included alongside its opening and closing times

JButton is placed on the main Panel, a listener and array are introduced, the array is used in a loop, and the loop uses a reader method variable named petShopList to get the Opening Times from the getAllStores function within the PetShop class.