**Collections Framework in Java**

To begin, the Collections framework is an extremely beneficial tool for any programmer that is working with the Java language. The Collections Framework in Java provides an architecture to store and manipulate the group of objects. Such collections can achieve all the operations that a user performs on data such as sorting, searching, manipulation, insertion, and deletion. In addition to that it provides many interfaces and classes. Some of the interfaces it provides consist of the set, list, queue, and deque. The Java collection framework provides the following classes: ArrayList, Vector, LinkedList, PriorityQueue, HashSet, LinkedHashSet, and TreeSet. In other words, the Collections framework in Java is used to increase the performance of linked lists, dynamic arrays, trees, and hash tables for them to be very efficient when being implemented. The basic components of such collections consists of interfaces, data structures, and algorithms as mentioned earlier. The interfaces allow collections to be independently manipulated and the data structures increase the implementation of collections and allow reusability. Lastly, the algorithms allow for searching and sorting (Collections, 2019).

Below are some of the examples of how collections can be useful with certain projects. The two-example come from a website javapoint.com. In the first example, an array list of type string is created with four names and two of the names are duplicated. They then traverse through the array list using an iterator to output the contents of that list. In the second example a LinkedList is created (Javatpoint, 2019).

Graphical user interface, text, application

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*Works Cited*

Collections in Java - javatpoint. (2019). Retrieved March 22, 2021, from <https://www.javatpoint.com/collections-in-java>

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