## **Software construction 2**

## **Lap 3 Report**

(members: Desmond Nduma 2350342, Galadima Ahmed 2350499)

## A) Index validation

1) private boolean validIndex(int index): The index validation is introduced for iteration within the ArrayList. Users can easily iterate from the first element in the ArrayList to the last and when they go out of range, it gives an error message since the index validates the exact number of files on the ArrayList.

2)The following methods below use the index validation

public void listFile(int index)

public void listAllFiles()

public void removeFile(int index)

public void startPlaying(int index)

public void playAndWait(int index)

The methods are all public in order to allow external access to the methods

## B) Get input

1) trim() method is applied to objects that contain leading and trailing spaces. It eliminates those spaces.

toLowerCase() method is applied to string or alphabet objects that contains uppercase letters and converts them to lowercase letters

2) The main difference between the HashSet and the ArrayList is that the HashSet returns a result just ones but the ArrayList can return as many times as available. So in the get input() method the Hashset will return each word just one time