Difference between list and set?

**Technical:**

**List and set are comes under collections in java which is used to store unlimited data and manipulated.**

**List and Set are interfaces in java.**

**List:**

1. **List** is a type of ordered collection that maintains the elements in insertion order
2. **List** allows duplicates
3. List permits any number of **null values** in its collection
4. Types: ArrayList and linkedList

1. It will allow duplicates

2. it will follow insertion order

3. Not synchronized--

4. no Thread-safe

4. it will allow random access since elements are stored in index

Set:

1. **Set** is a type of unordered collection so elements are not maintained any order.it will follow random order.
2. **Set** doesn't allow duplicate elements .
3. All the elements of a Set should be unique if you try to insert the duplicate element in Set it would replace the existing value.
4. Set permits only one null value in its collection.
5. Types: HashSet(random order)

LinkedHashSet(inserstion order)

TreeSet(ASCII order)

1. Set will not contain get() function

Selenium:

We have used in windows handling

Set=all windowhandles

List=set

Project:

while handling windows

**Synchronized** vs **unsynchronized** access doesn't have to do with the **Java** Collections Framework per see. **Synchronized** access means that you have some sort of locking for accessing the data. ... **Unsynchronized** access means that you don't have any locking involved when accessing the data.