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LinkedHashSet, SortedSet, NavigableSet in Java

=> LinkedHashSet :-

- → LinkedHashSet is the child class of HashSet which is present in java.util package
- → Syntax : public class LinkedHashSet extends HashSet implements Set, Cloneable, Serializable { - }
- → The underline data structure of LinkedHashSet is "Hashtable + LinkedList"
- LinkedHashSet was introduced in JDK 1.4 version

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- → Properties of LinkedHashSet :-
- = All properties of LinkedHashSet is same as HashSet except LinkedHashSet follows the insertion order
 - → Constructors of LinkedHashSet :-
 - = same constructors as HashSet

- → Methods of LinkedHashSet :-
 - = Same methods as HashSet
- → When we should use LinkedHashSet :-
- = If we have to create cache based applications then we can use LinkedHashSet

- → Difference between HashSet & LinkedHashSet :-
- HashSet was introduced in JDK 1.2 version
 LinkedHashSet was introduced in J2SE 1.4
 version
 - 2. HashSet does not follow the insertion order LinkedHashSet follows the insertion order

3. HashSet underline data structure is "Hashtable" LinkedHashSet underline data structure is "Hashtable + LinkedList"

=> SortedSet :-

- → SortedSet is a child interface of Set interface which is present in java.util package
- → Syntax : public interface SortedSet extends Set { - }

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→ SortedSet was introduced in JDK 1.2 version

- → Properties of SortedSet :-
- 1. SortedSet is not an index based data structure
- 2. SortedSet does not follows the insertion order
- 3. SortedSet follows the sorting order
- 4. SortedSet can store same data types or homogeneous elements. If we provide different data type element if will provide exception i.e. java.lang.ClassCastException
- 5. SortedSet cannot store the duplicate elements
- 6. We should not store null value in SortedSet because SortedSet follows the sorting order so while comparing the elements with null value, it will provide the java.lang.NullPointerException
- 7. SortedSet allows Comparable objects bydefault, but if we insert non-comparable objects, then it will provide an exception i.e. java.lang.ClassCastException
- 8. SortedSet is non-synchronized collection

- → Methods of SortedSet :-
 - Object first();
 - 2. Object last();
 - SortedSet headSet(Object toElement);
 - 4. SortedSet tailSet(Object fromElement);
 - SortedSet subSet(Object fromElement, Object toElement);

=> NavigableSet :-

- → NavigableSet is the child interface of SortedSet interface which is present in java.util package
- → Syntax : public interface NavigableSet extends SortedSet { - }
- → NavigableSet was introduced in Java SE 6 version

- → Properties of NavigableSet :-
- = NavigableSet has the same properties as that of SortedSet but it provides some extra navigable methods

→ Methods:

- 1. public NavigableSet descendingSet()
- 2. public Object ceiling(Object obj)
- 3. public Object higher(Object obj)
- 4. public Object floor(Object obj)
- 5. public Object lower(Object obj)
- 6. public Object pollFirst()
- 7. public Object pollLast()

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