Similarities between HashSet and TreeSet

Set Interface: HashSet and TreeSet are concrete implementation of Set interface. As per the contract of Set interface this classes stores unique elements.

Fail-Fast Iterators: HashSet and TreeSet both of them provides Fail-Fast iterators. If there is concurrent modification then it results in ConcurrentModificationException. Read about ConcurrentModificationException, Fail-Fast Iterators, Fail-Safe Iterators, Fail-Fast vs Fail-Safe Iterators.

clone() method: Both HashSet and TreeSet class provides clone() method. Both of them returns shallow copy of the specified instance. The elements themselves are not cloned.

Non-Synchronized: HashSet and TreeSet are not Synchronized means they are not thread safe. If multiple threads want to access these collections then they need to be synchronized externally. To synchronized HashSet use Collections.synchronizedSet(Set<T> s) and for TreeSet use Collections.synchronizedNavigableSet(NavaigableSet<T> s). Remember the iterators returned by Synchonized methods must be synchronized externally.