Collections

- Group of variable number of Objects(zero too) of similar types
- Stored objects are called items or elements
- Type - read only or mutable
- List, Set and Map are three collection interfaces
- List is ready only, ordered and can have duplicate, access using index
- MutableList - R/W, ordered, can have duplicate, access using index, ArrayList default
- List- Equal if same size and same structural item at same position
- Set- Read only, usually unordered, unique including null
- Mutable set - R/W, Default LinkedHashSet ordered, HashSet unordered

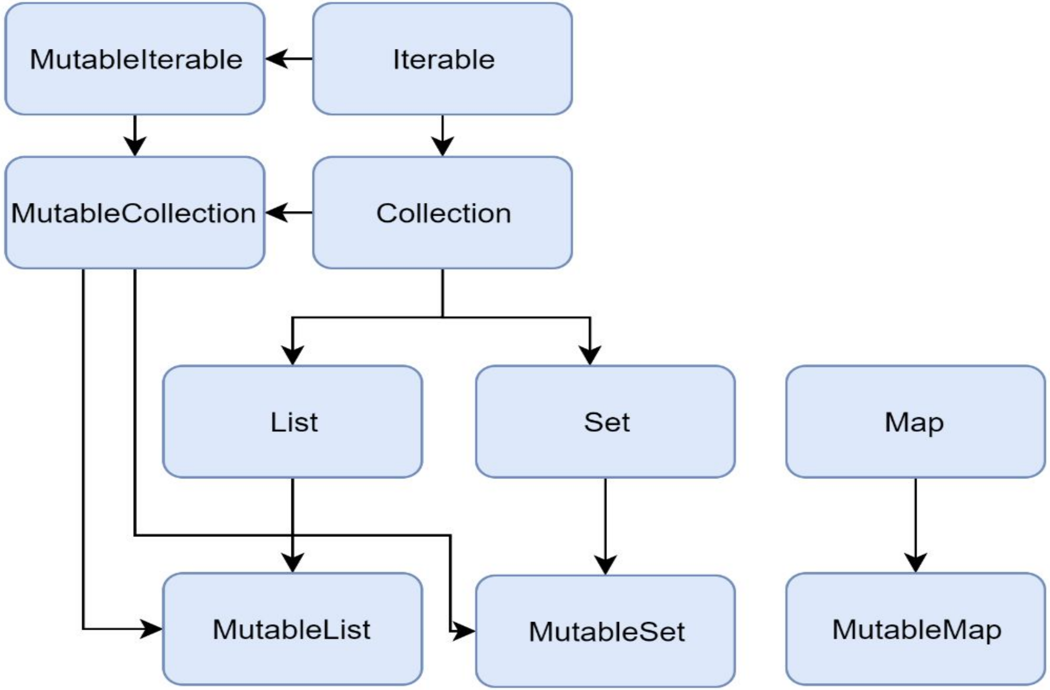
Collections

- Map<K,V> - read only , do not implement Collection interface, Key value pair
- Equal if same pair
- MutableHashMap<K,V> - R/W, Default LinkedHashMap ordered, HashMap unordered
- Null keys are allowed, if same key will replace
- Kesy, values , entries and forEach to accessing elements
- Iterator - are used to iterate over Collection (List and Set), has hasNext() and Next() methods
- ListIterator - for list to iterate in both directions
- MutableIterator - for updating collection while iterating

Collections - Construction

- listOf(), mutableListOf() and so on methods
- emptyList() and so on for creating read only empty collections
- Concrete type using constructor i.e ArrayList<String>()
- Copy using toList(), toMutableList() ..., creates new Collection

Collections


MutableIterable
Iterable
MutableCollection
Collection
List
Set
Map
MutableList
MutableSet
MutableMap