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| **LIST** |
| **Attributes** |
| Length : int |
| Is\_empty : bool |
| **Methods** |
| Append(string value) : void |
| Insert(int index, string value) : void |
| Remove(string value) : void |
| Clear() : void |

**Task 4: UML diagram for an ADT list**

**Explanation**

**Attributes:**

**Length** – give the number of elements inside the list.

**Is\_empty**  - check whether the list is empty and returns true or false

**Methods:**

**Append** – takes a string value. Adds the value to the list as the last item.

**Insert** – takes a string value and an index value. Adds the string value to the list at the specified index of the list.

**Remove** – takes a string value. Removes the string value from the list.

**Clear** – removes all the items in the list.