|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attributes:   |  |  | | --- | --- | | Class-Level Atrributes | -numofMessages: integer  -lastmessageID : integer | | Instance-Level Attributes | -date-time : datetime Object  -sender: string  -content : string  -size: integer  -recipient : string | |
| Methods:   |  |  | | --- | --- | | +constructor | Receive information about message object:  date-time : datetime Object  sender: string  content : string  size: integer  recipient : string  #should create a message object and increase the lastmessageID by 1. | | +str():str | Description: Returns formatted string for message object | | Getter Methods | +getdateTime():datetime Object  +getsender():string  +getcontent : string  +getsize: integer  +getrecipient : string  +getnumofMessages: integer  +getLastmessageID : integer | |

**Messages**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attributes:   |  |  | | --- | --- | | Class-Level Atrributes | -numofMessages: integer | | Instance-Level Attributes | -MessageLists:Lists of messages | |
| Methods:   |  |  | | --- | --- | | +constructor | Receive information about message object  MessageLists: emptyLists  #should always initialize to empty list. | | +str():str | Description: Returns formatted string for message object | | Getter Methods | +getDateTime():datetime Object  +getSender():string  +getContent (): string  +getSize(): integer  +getNumofMessages(): integer  +getRead():Boolean | | Instance-level Methods | +UpdateRead():void  Change the value of read to true.  +SortMessages():void  Sorts the list with date-time  +DeleteMessage():void  deletes Messages and reduce numofmessages.  +searchMessage():returns formatted newMessageList  +sendMessage():void | |

**SMS-Inbox**