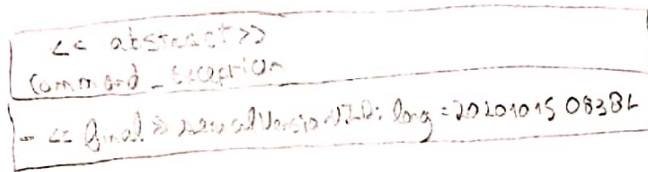
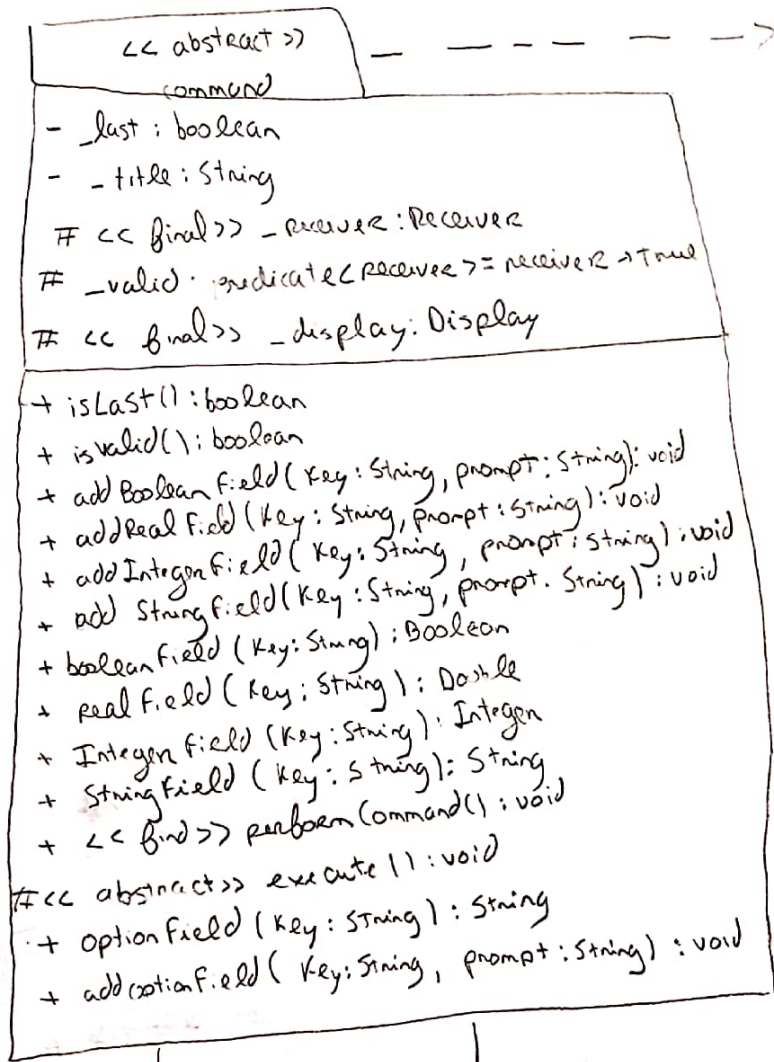
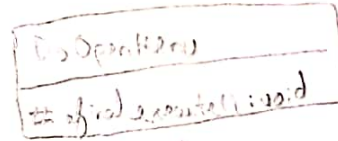


Classes: Label, Messages, Prompt and Message have been omitted since they represent bags of global functions or variables and are never instantiated as normal object classes

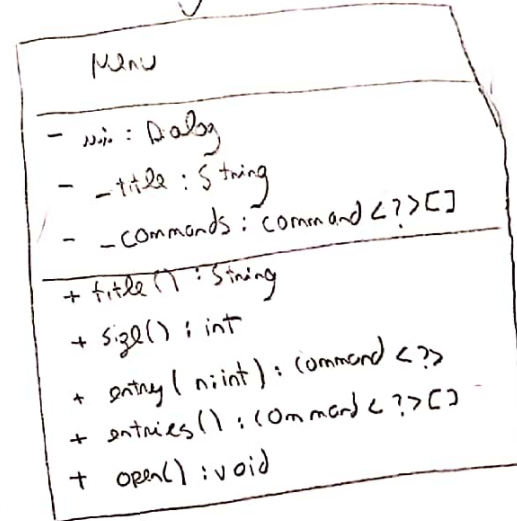


Exception

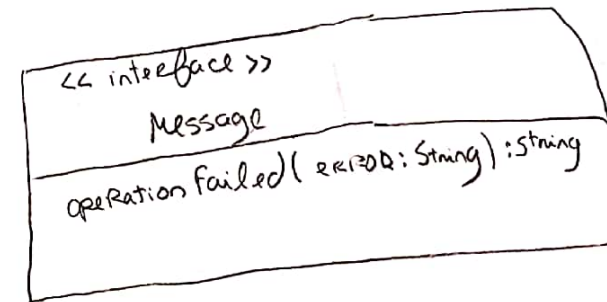


Command

Menu



Dialog



## Composite Print Stream

- streams: Collection <PrintStream> = new ArrayList<>()
- error boolean = false

<< find >> add (ps: PrintStream): void

- checkError(): boolean
- close(): void
- flush(): void
- print (b: boolean): void
- print (c: char[]): void
- print (d: double): void
- print (f: float): void
- print (i: int): void
- print (l: long): void
- print (obj: Object): void
- print (str: String): void
- println (c: char[]): void
- println (c: char): void
- println (d: double): void
- println (f: float): void
- println (i: int): void
- println (l: long): void
- println (obj: Object): void
- println (str: String): void
- writeError(): void
- write (buf: byte[], off: int, len: int): void
- write (b: int): void
- write (b: byte[]): void

PrintStream

IOException

## &lt;&lt; interface &gt;&gt; Message

- void addOperation (error: String): String
- void addOption (o: String)
- error EOF (e: EOFException): String
- error IO (e: IOException): String
- error Invalid Number (e: NumberFormatException): String
- error EOF (e: Runtime EOFException): String
- input Error (e: FileNotFoundException): String
- error Closing Input (e: IOException): String
- end Of Input(): String
- output Error (e: FileNotFoundException): String
- log Error (e: FileNotFoundException): String

## &lt;&lt; interface &gt;&gt;

Property

option(): String  
exit(): String

## &lt;&lt; interface &gt;&gt;

Property

WRITE\_INPUT: String = "writeInput"  
BOTH\_CHANNELS: String = "both"  
INPUT\_CHANNEL: String = "in"  
OUTPUT\_CHANNEL: String = "out"  
LOG\_CHANNEL: String = "log"

## Runtime EOF Exception

<< find >> readRandomString: long = 200610291655L

## RuntimeException

## Text Interaction

- in: Buffered Reader = new Buffered Reader (new Input Stream Reader (System.in))
- out: PrintStream = System.out
- log: PrintStream = null
- writeInput: boolean
- close(): void
- open (resource: String): void
- fill (form: Form): void
- render (title: String, text: String): String
- << find >> readString (prompt: String): String
- << find >> readString (prompt: String, limit: int)

Buffered Reader

Print Stream

throws IOException

Runtime EOF Exception

NumberFormatException

EOFException

CommandException

Form

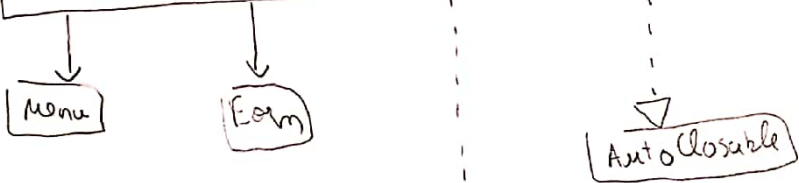
Menu



# Dialog

```

- << final >> ACTION_CHANNEL : String = "u"
- << final >> CHANNEL_SWING : String = "swing"
- << final >> CHANNEL_NEW_SWING : String = "newSwing"
- << final >> CHANNEL_TEXT : String = "text"
+ UI : Dialog = new Dialog()
  - backend = InteractionDriver
+ open (menu: Menu) : void
+ fill (form: Form) : void
+ render (Title: String, text: String) : void
+ close() : void
    
```



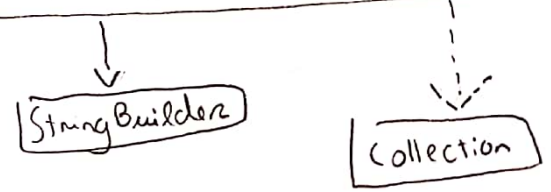
```

<< interface >>
InteractionDriver
+ open (menu: Menu) : void
+ fill (form: Form) : void
+ render (Title: String, text: String) : void
+ close() : void
    
```

# Display

```

- _ui : Dialog
- _title : String = ""
- _text : StringBuilder = new StringBuilder()
+ add (toAdd: Object) : Display
+ addAll (items: Collection<?>) : Display
+ addLine (title: Object) : Display
+ addNewLine (toAdd: Object, force: boolean) : Display
+ display() : void
+ popup (toPop: Object) : void
+ popup (toPop: Collection<?>) : void
+ clear() : void
    
```



Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo do projeto - Diogo Guerreiro (99650)

Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo do projeto - André Bento (99642)