StringBuilder

pt.tecnico.uilib

<<interface>>
InteractionDriver

<<interface>>
Collection

Dialog

Display

<<interface>>
AutoCloseable

<<interface>>
Receiver

pt.tecnico.uilib.text

Text Interaction

PrintStream

CompositePrintStream

Runtime EOF Exception

pt.tecnico.uilib.forms

Type: Class

<>
Field

Field Boolean
<<bind>>
Type → Boolean

Field Integer
<<bind>>
Type → Integer

Field None
<<bind>>
Type → Void

Field Option
<<bind>>
Type → String

Field Real
<<bind>>
Type → Double

Field String
<<bind>>
Type → String

Form

pt.tecnico.uilib.menus

Menu

Receiver
: Class

<>
Command

<<bind>>
T → Receiver

T: Class

<<interface>>
Predicate

<>
Command Exception

<<throws>>

<<bind>>
Receiver → Menu

Do Open Menu

<<throws>>

<<throws>>

Exception

IO Exception

Form Exception
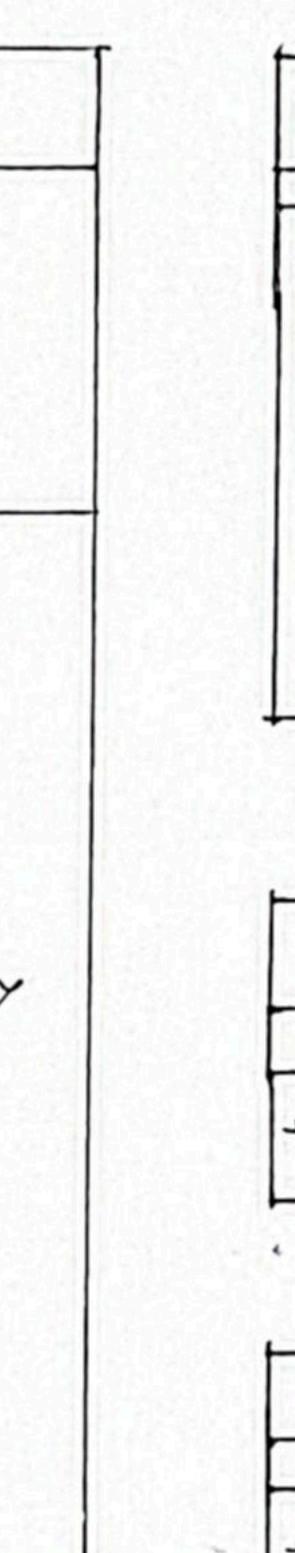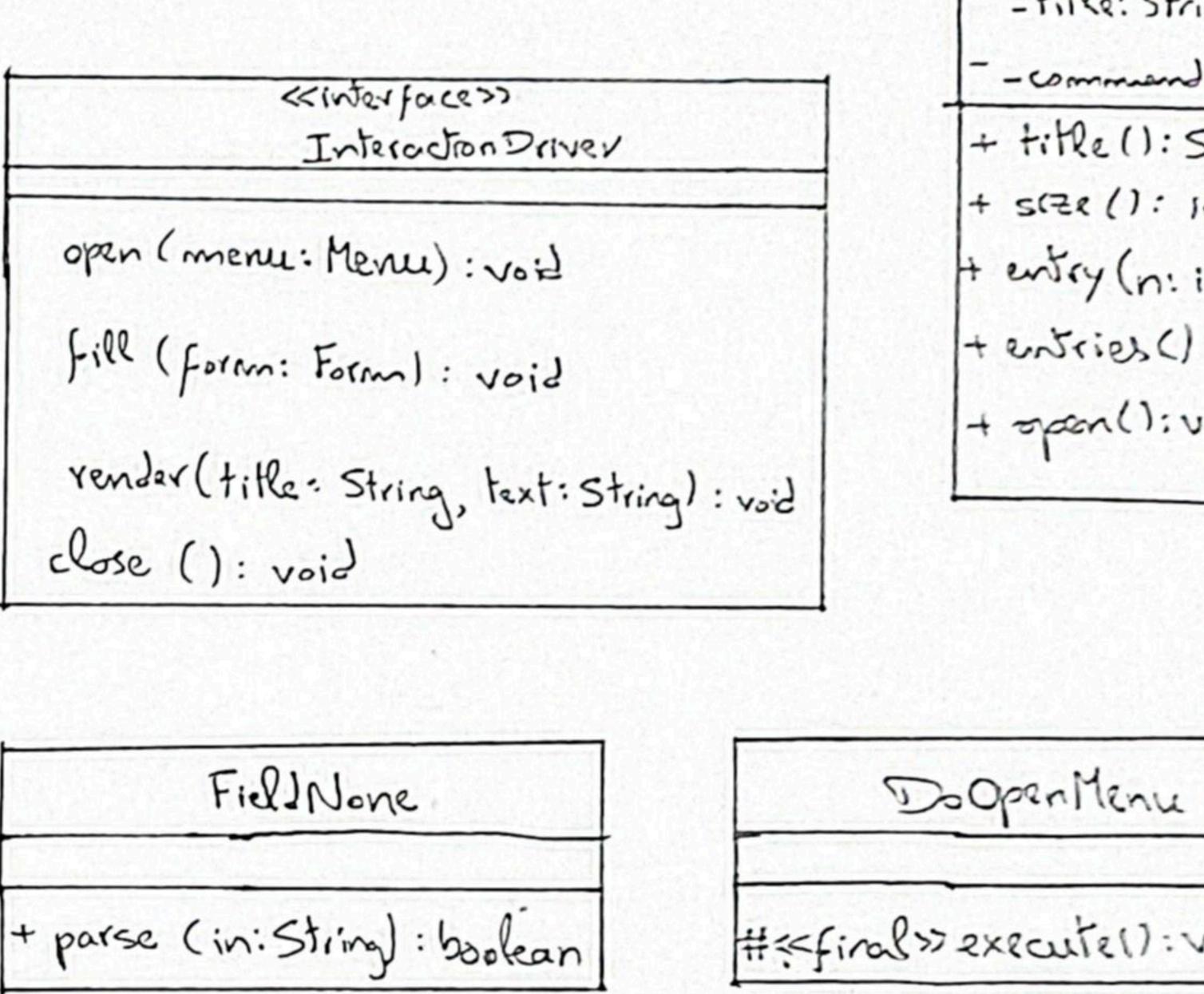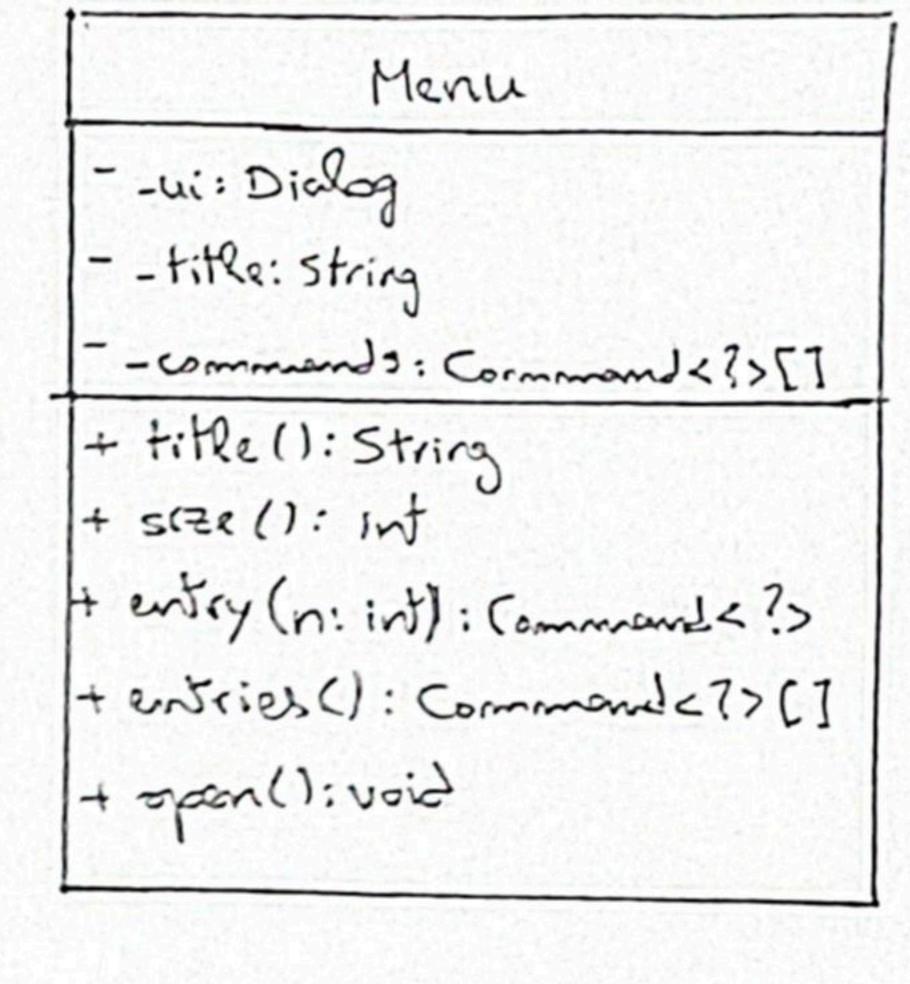
Runtime Exception

Dialog

```
<<final>> ACTION-CHANNEL : String
- <<final>> CHANNEL-SWING : String
- <<final>> CHANNEL-NEW-SWING : String
- <<final>> CHANNEL_TEXT : String
+ <<final>> UI : Dialog
- _backend : InteractionDriver
```
```
+ open (menu: Menu) : void
+ fill (form: Form): void
+ render( title: String, text: String): void
+ close () : void
```

Display

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

Menu

```
- _ui: Dialog
- _title: String
- _commands : Command<?>[]
```
```
+ title (): String
+ size (): int
+ entry (n: int) : Command<?>
+ entries(): Command<?>[]
+ open(): void
```

<<interface>> InteractionDriver

```
open (menu: Menu) : void
fill (form: Form) : void
render(title: String, text: String) : void
close () : void
```

FieldNone

```
+ parse (in: String) : boolean
```

DoOpenMenu

```
#<<final>> execute() : void
```

FieldReal

```
+ parse (in : String): boolean
```

RuntimeEOFException

```
<<final>> serialVersionUID : long
```

<> Field

`[Type : Class]`

```
- _prompt : String
- _clear : boolean
# _value : Type
```
```
+ prompt () : String
+ set (value: Type) : void
+ value() : Type
+ clear () : void
# dirty () : void
+ cleared (): boolean
+ isReadOnly : boolean
+ <<abstract>> parse ( in: String): boolean
```

FieldBoolean

```
- <<final>> BOOLEAN_WORD_YES: String
- <<final>> BOOLEAN_WORD_No: String
- <<final>> BOOLEAN_CHAR_YES: char
- <<final>> BOOLEAN_CHAR_No: char
```
```
+ parse ( in: String) : boolean
```

FieldOption

```
- _options : String[]
```
```
+ parse (in: String): boolean
```

FieldString

```
+ parse (in: String): boolean
```

FieldInteger

```
+ parse (in: String) : boolean
```

FormException

```
<<final>> serialVersionUID : long
```

TextInteraction

```
- _in: BufferedReader
- _out : PrintStream
- _log : PrintStream
- _writeInput : boolean
```
```
+ close () : void
+ open (menu: Menu) : void
+ fill (form: Form) : void
+ render (title: String, text: String): void
- readString (prompt: String): String
- readInteger (prompt: String) : int
```

Form

- -_ui: Dialog
- -_title: String
- -_fields: Map<String, Field<?>>

- + title() : String
- + entries() : Collection<Field<?>>
- + field(key: String) : Field<?>
- - add(key: String, in: Field<?>) : void
- + addBooleanField(key: String, label: String) : void
- + addStringField(key: String, label: String) : void
- + addRealField(key: String, label: String) : void
- + addIntegerField(key: String, label: String) : void
- + addOptionField(key: String, label: String, options: String[]) : void
- - get(key: String, type: String) : Object
- + booleanField(key: String) : Boolean
- + stringField(key: String) : String
- + optionField(key: String) : String
- + realField(key: String) : Double
- + integerField(key: String) : Integer
- + parse() : Form
- + parse(clear: boolean) : Form
- + clear() : void
- + confirm(prompt: String) : Boolean
- + requestInteger(prompt: String) : Integer
- + requestReal(prompt: String) : Double
- + requestString(prompt: String) : String
- + requestOption(prompt: String, options: String[]) : String

CompositePrintStream

- - _streams: Collection<PrintStream>
- - _error: boolean

- <<final>> add(ps: PrintStream) : void
- + checkError() : boolean
- + close() : void
- + flush() : void
- + print(b: boolean) : void
- + print(c: char) : 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(b: boolean) : 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
- # setError() : void
- + write(buf: byte[], off: int, len: int) : void
- + write(b: int) : void
- + write(b: byte[]) : void

Receiver: class

<> Command

- - _last: boolean
- - _title: String
- # <<final>> _receiver: Receiver
- # _valid: Predicate<Receiver>
- - <<final>> _form: Form
- # <<final>> _display: Display

- + <<final>> title() : String
- + isLast() : boolean
- + isValid() : boolean
- + addBooleanField(key: String, prompt: String) : void
- + addRealField(key: String, prompt: String) : void
- + addIntegerField(key: String, prompt: String) : void
- + addStringField(key: String, prompt: String) : void
- + addOptionField(key: String, prompt: String, options: String[]) : void
- + booleanField(key: String) : Boolean
- + realField(key: String) : Double
- + integerField(key: String) : Integer
- + stringField(key: String) : String
- + optionField(key: String) : String
- + <<final>> performCommand() : void
- # <> execute() : void

<> CommandException

- - <<final>> serialVersionUID: long