

Dialog

- <<final>> ACTION_CHANNEL: String
- <<final>> CHANNEL_SWING: String
- <<final>> CHANNEL_NEW_SWING: String
- <<final>> CHANNEL_TEXT: String
+ UI^{UI} Dialog
- - backend : InteractionDriver

+ 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

+ Display (title : String)
+ Display (ui : Dialog, title : String)
+ add (toAdd : Object) : Display
+ addAll (items : Collection<?>) : Display
+ addLine (toAdd : Object) : Display
+ addNewLine (toAdd : Object, force : boolean) : Display
+ display () : void
+ displayText () : void
+ popUp (toPop : Object) : void
+ popup (toPop : Collection<?>) : void
+ clear () : void

InteractionDriver

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

Form

- ui : Dialog
- title : String
- fields : Map<String, Field<?>>

- + Form (title : String)
- + Form (ui : Dialog, title : String)
- + 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) : 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

FormException

- + FormException (msg : String)

Type : Class ?

«Abstract» Field

- 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

FieldInteger

- + parse (in : String) : boolean

FieldNone

- + parse (in : String) : boolean
- + isReadOnly () : boolean

FieldOption

- options : String[]

- + parse (in : String) : boolean

FieldReal

- + parse (in : String) : boolean

FieldString

- + parse (in : String) : boolean

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
```

RunTimeEOFException

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
```

!Receiver : class !

«Abstract» Command

- last : boolean
- title : String
<final> - receiver : Receiver
- valid : Predicate< Receiver>
- <final> - form : Form
<final> - display : Display

+ Command (last : boolean, title : String, receiver : Receiver, valid : Predicate< Receiver>)
+ command (title : String, receiver : Receiver)
+ command (title : String, receiver : Receiver, valid : Predicate< Receiver>)
+ <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
<abstract> execute () : void

«Abstract» CommandException

+ CommandException (message : String)
+ CommandException (message : String, throwable : Throwable)

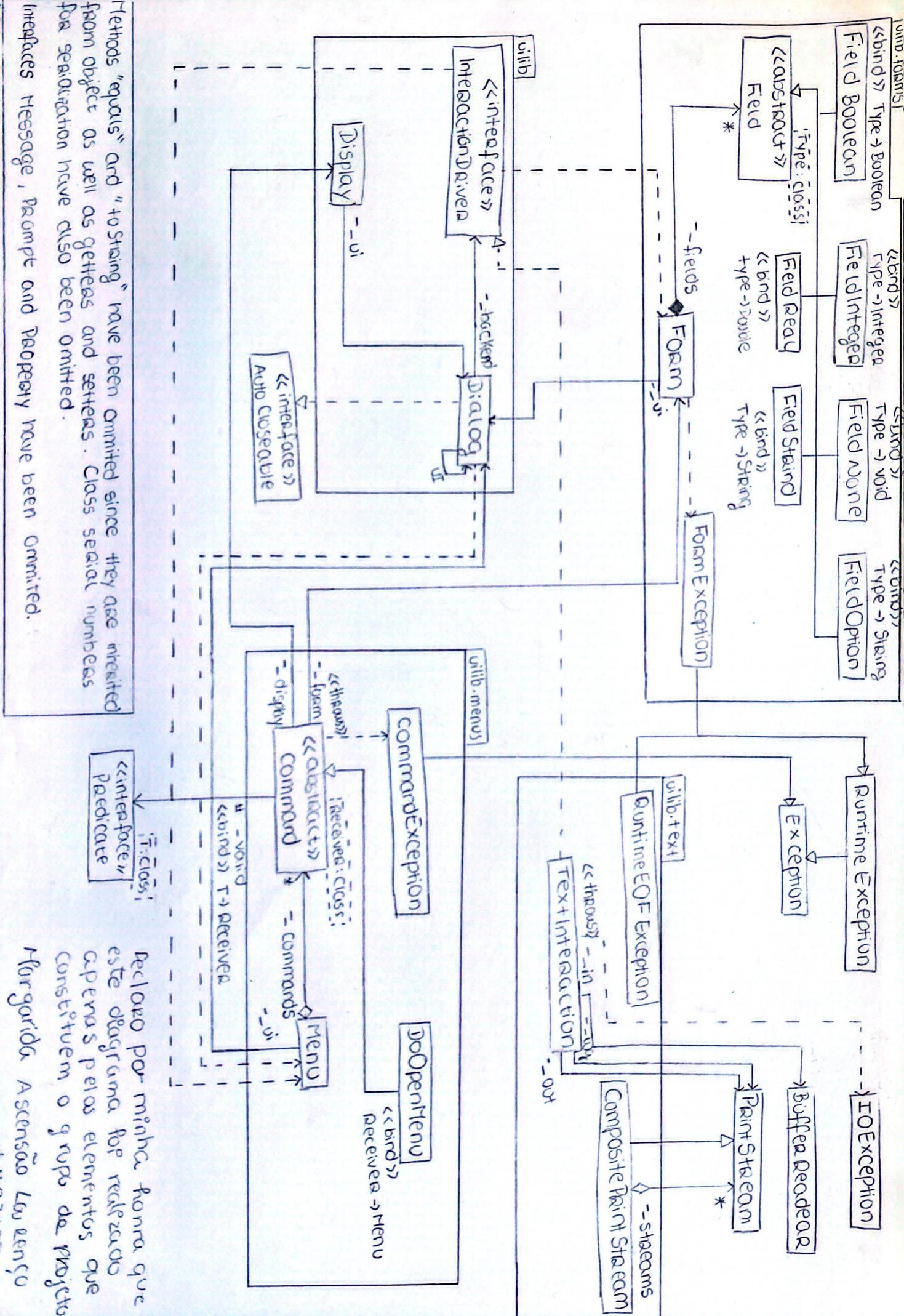
DOOpenMenu

+ DoOpenMenu (label : String, receiver : Menu)
<final> execute () : void

Menu

- ui : Dialog
- title : String
- commands : Command< ? > []

+ title () : String
+ size () : int
+ entry (n : int) : Command< ? >
+ entries () : Command< ? > []
+ open () : void



Methods "equals" and "toString" have been omitted since they are inherited from object as well as getters and setters. Class serial numbers for serialization have also been omitted.

Interfaces `Message`, `Prompt` and `Property` have been omitted.

Decidão para minha honra que este diagrama foi realizado

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for serialisation have also been omitted.

Declaro por minha honra que
este diagrama foi redigido
apenas pelos elementos que
constituem o grupo de projetos