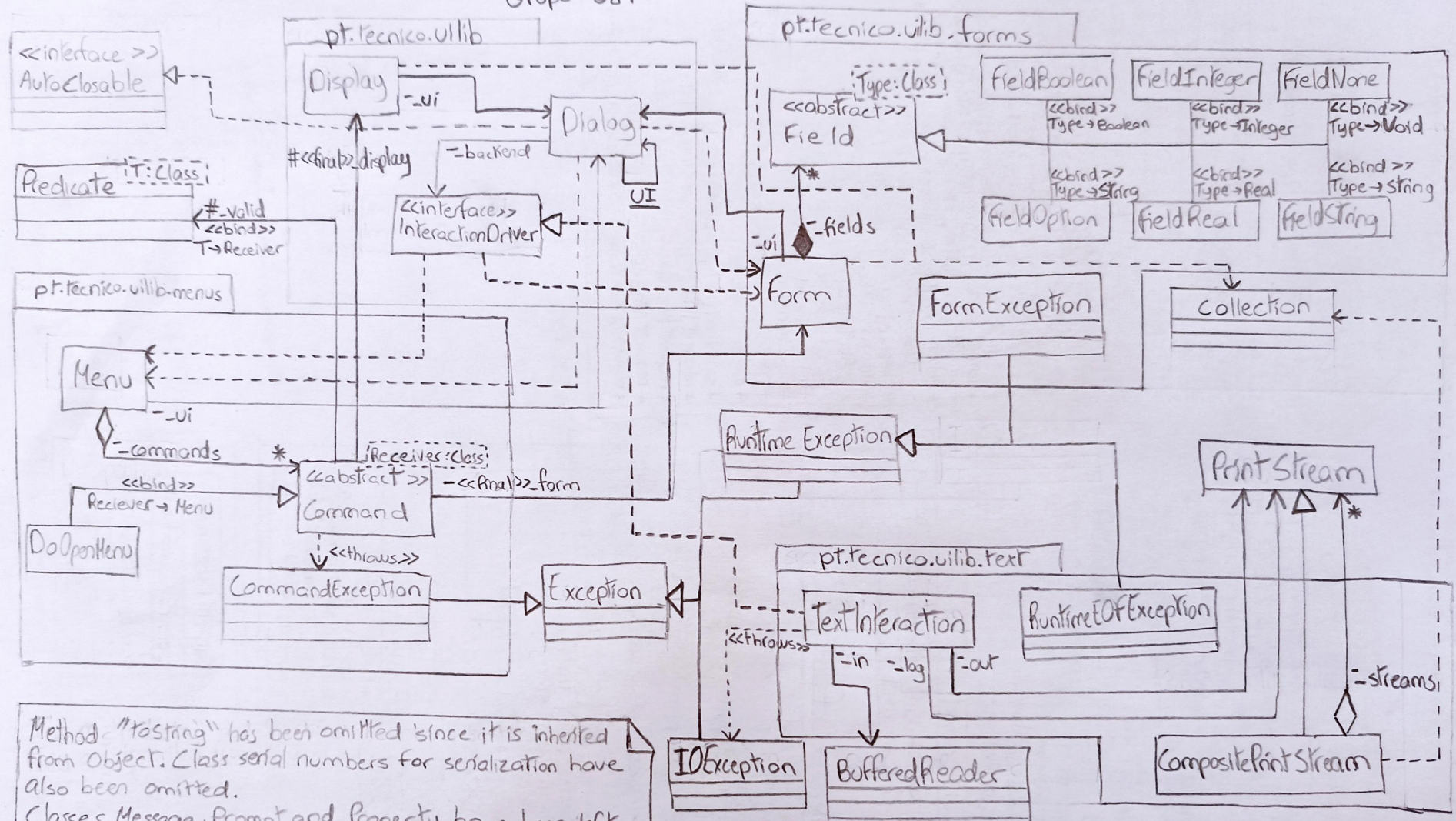


Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projeto. Tomás Bernardino, ISR 1107052
Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projeto. André Santos, ISR 1107041
- Grupo 084 -



Method "toString" has been omitted since it is inherited from Object. Class serial numbers for serialization have also been omitted.

Classes Message, Prompt and Property have been left out since they represent bags of global functions or variables and are never instantiated as normal concept classes.

The following pages of this document contain the fields and methods of the classes that are not empty.

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 Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projeto. André Santos, nº1107047
 Grupo 84

pt.tecnico.uilib.forms

```
<<abstract>> Type: class
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
```

```
Field Boolean

- <<final>> BOOLEAN_WORD_YES = "sim"
- <<final>> BOOLEAN_WORD_NO = "nao"
- <<final>> BOOLEAN_CHAR_YES = "s"
- <<final>> BOOLEAN_CHAR_NO = "n"

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

```
Field Integer

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

```
Field None

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

```
Field Option

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

```
Field Real

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

```
Field String

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

```
Form

- _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, 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
```

pt.tecnico.uilib.menus

```
<<abstract>> Receiver: class
Command

- _last: boolean
- _title: String
# <<final>> _receiver: 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
```

```
Menu

- _title: String

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

```
Collapsable Menu

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


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Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projeto: André Santos, jst110704

Grupo 84

pt.technico-utilib.text

TextInteraction

- 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

CompositePrintStream

- _error : boolean = false

~ <<final>> add (ps : PrintStream) : void

pt.technico-utilib

Dialog

- <<final>> ACTION_CHANNEL : String = "ui"
- <<final>> CHANNEL_SWING : String = "swing"
- <<final>> CHANNEL_NEW_SWING : String = "newswing"
- <<final>> CHANNEL_TEXT : String = "text"

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

Display

- _title : String = ""
- _text : String Builder = new String Builder
- + 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

<<interface>>
InteractionDriver

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