pt.tecnico.uilib

Display

#-display

-ui

Dialog

-ui

-ui

AutoCloseable

-UI

-vi

InteractionDriver

-backend

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<<bind>>
Command->Menu

Menu

Receiver: class

<<bind>>
Command->Menu

Command

DoOpenMenu

-command

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FieldReal

<<bind>>
Type->Double

FieldOption

<<bind>>
Type->String

FieldString

<<bind>>
Type->String

FieldInteger

<<bind>>
Type->Integer

FieldNone

<<bind>>
Type->Void

FieldBoolean

<<bind>>
Type->Boolean

Type: class

-form

Form

-fields

Field

<<throws>>

FormException

<<throws>>

RuntimeException

CommandException

Exception

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Text Interaction

2

CompositePrintStream

PrintStream

-streams

-in

BufferedReader

<<throws>>

RuntimeEOFException

Method "equals" and "toString" have been omitted since they are omitted from Object. Setters and some getters have also been omitted. Class serial numbers have also been omitted. Classes Prompt, Property and Message (multiple ones) have been omitted since they are never instantiated as normal concrete classes. Exceptions have been omitted in the more detailed pages.

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

Dialog

- <<final>> ACTION_CHANNEL: String = "ui"
- <<final>> CHANNEL_SWING: String = "swing"
- <<final>> CHANNEL_NEW_SWING: String = "newswing"
- <<final>> CHANNEL_TEXT: String = "text"
+ UI: Dialog
- backend: InteractionDriver

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

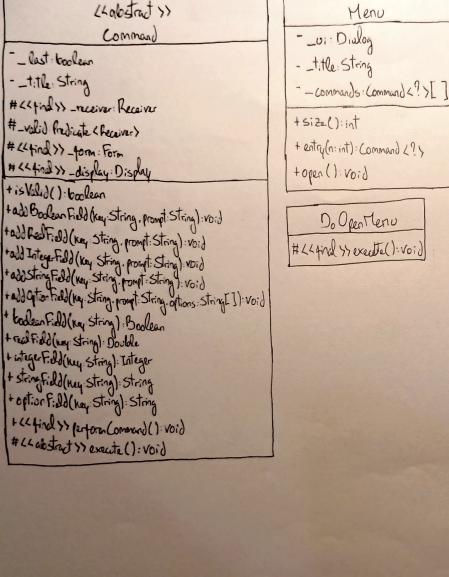## <<interface>> InteractionDriver

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

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Form

```
- _ui: Dialog
- _title: String
- _fields: Map<String, Field<?>>
```
```
+ 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(clean: boolean): Form
+ clean(): void
+ confirm(prompt: String): Boolean
+ requestInteger(prompt: String): Integer
+ requestReal(prompt: String): Double
+ requestString(prompt: String): String
+ requestOption(prompt: String, options: String[]): String
```

<> Field

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

FieldBoolean

```
- <<final>> BOOLEAN_WORD_YES: String = "sim"
- <<final>> BOOLEAN_WORD_NO: String = "nao"
- <<final>> BOOLEAN_CHAR_YES: char = "s"
- <<final>> BOOLEAN_CHAR_NO: char = "n"
```
```
+ parse(in: String): boolean
```

FieldOption

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

FieldNone

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

FieldInteger

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

FieldString

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

FieldReal

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

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«abstract» Command

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

+ 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

- _ui: Dialog
- _title: String
- _commands: Command<?>[]

+ size(): int
+ entry(n: int): Command<?>
+ open(): void

DoOpenMenu

«final» execute(): void

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TextInteraction

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

CompositePrintStream

```
- _streams: Collection<PrintStream>
- _error: boolean = false
```
```
~ <<final>> add(ps: PrintStream): void
```

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