

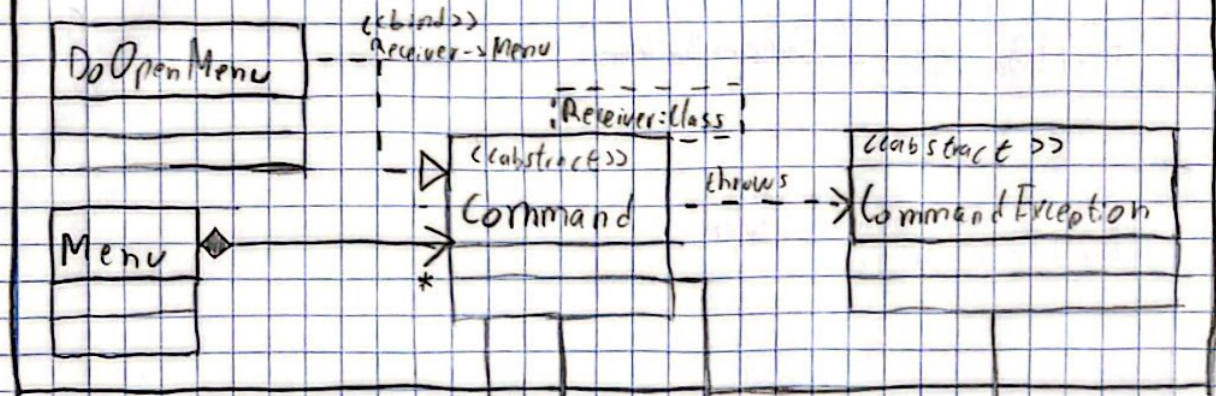
Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projeto

Guilherme Lopes

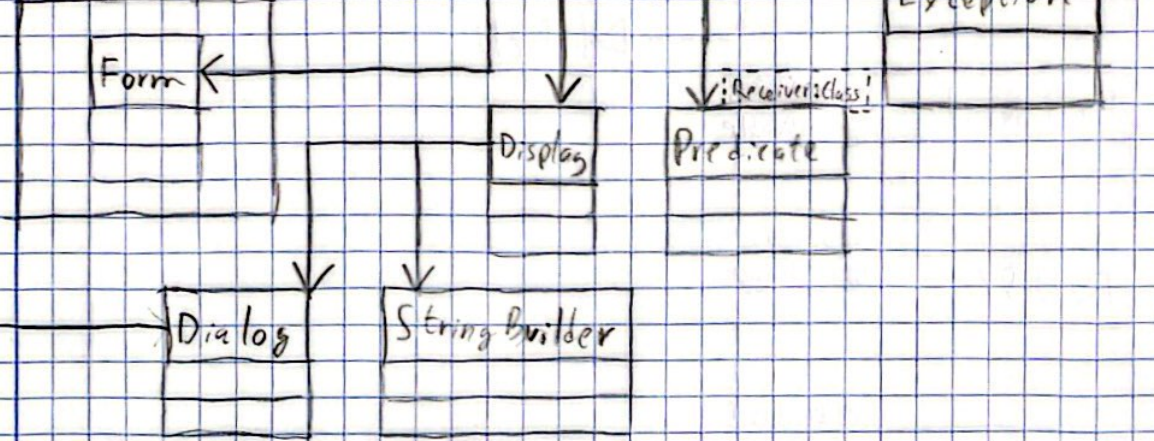
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Rebecca Vicente

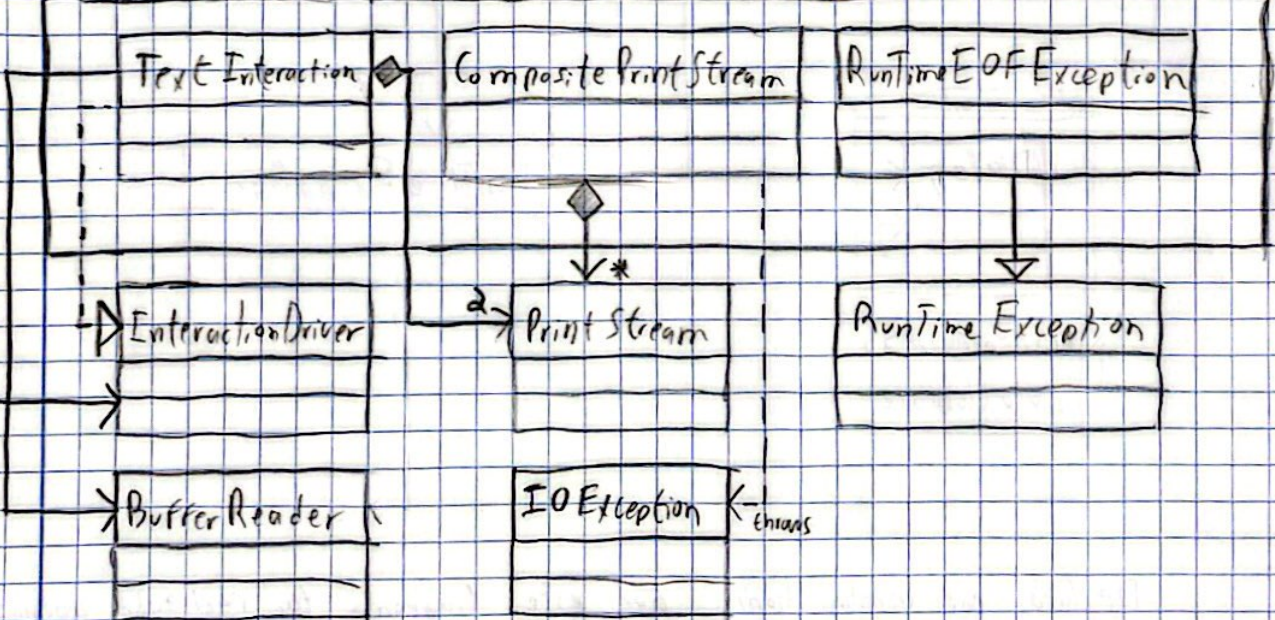
pt. tecnico. utilib. menus



pt. tecnico. utilib. forms



pt. tecnico. utilib. text



CC abstract >> !Type:Class

Field

```

- _prompt : String
- _clear : boolean
* - value : Type

+ prompt() : String
+ value() : ?
+ clear() : void
* dirty() : void
+ cleared() : boolean
+ isReadOnly() : boolean
+ (Cobs) parse(in: String) : boolean

```

Field Boolean

```

- BOOLEAN-WORD-YES : String {static, final}
- BOOLEAN-WORD-NO : String {static, final}
- BOOLEAN-CHAR-YES : char {static, final}
- BOOLEAN-CHAR-NO : char {static, final}

```

Field Integer

Field None

+ isReadOnly() : boolean

Field Option

- _options : String[]

Field Real

Field String

FormException

Form

```

- _vi : Dialog
- _title : String
- _fields : Map<String, Field>

+ title() : String
+ entries : Collection
+ 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 {static}
+ requestInteger(prompt: String) : Integer {static}
+ requestReal(prompt: String) : Double {static}
+ requestString(prompt: String) : String {static}
+ requestOption(prompt: String, options: String[]) : String {static}

```

CC interface >>

Message

```

~ KeyAlreadyExists(form: String, key: String) : String {static}
~ FormNotFilled(form: String) : String {static}
~ KeyNotFound(form: String, key: String) : String {static}
~ typeMismatch(form: String, key: String, actualType: String, requestedType: String) : String {static}

```


Abstract >> Receiver: Class

Command

```

- _last: boolean
- _title: String
* - receiver: Receiver {final}
* - valid: Predicate
- _form: Form {final}
* - display: Display {final}
+ 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
+ performCommand(): void {final}
* (cabs>> execute(): void
  
```

Abstract >>
CommandException

DoOpenMenu

interface SS
Message

~ operationFailed(error: String): String {static}

Menu

```

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

Display

```

- _ui: Dialog
- _title: String
- _text: String Builder
+ add(toAdd: Object): Display
+ addAll(items: Collection): Display
+ addLine(toAdd: Object): Display
+ addVowelLine(toAdd: Object, force: boolean): Display
+ display(): void {final}
+ displayText(): void {final}
+ popup(toPop: Object): void
+ popup(toPop: Collection): void
+ clear(): void
  
```

Dialog

```

- ACTION_CHANNEL: String {static, final}
- CHANNEL_SWING: String {static, final}
- CHANNEL_NEW_SWING: String {static, final}
- CHANNEL_TEXT: String {static, final}
+ UI: Dialog {static}
- _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
  
```


pt. tecnic, analib. test

CompositePrintStream

- _streams : Collection <PrintStream>
- _error : boolean
~ add(ps: PrintStream, Valid {final})

<<Interface>>

Message

~ unavailableOperation(error: String): String
~ unavailableOption(): String
~ errorEOF(e: EOFException): String
~ errorIO(ioe: IOException): String
~ errorInvalidNumber(e: NumberFormatException): String
~ errorPEOF(e: Runtime EOFException): String
~ inputError(e: FileNotFoundException): String
~ errorClosingInput(e: IOException): String
~ endOfInput(): String
~ outputError(e: FileNotFoundException): String
~ logError(e: FileNotFoundException): String

<<Interface>>

Prompt

~ option(): String {static}
~ exitC(): String {static}

Test Interaction

- _in : BufferedReader
- _out : PrintStream
- _log : PrintStream
- _writeInput : boolean
- readString(prompt: String): String
- readInteger(prompt: String): int

<<Interface>>

Property

~ WRITE_INPUT: String = "writeInput"
~ BOTH_CHANNELS: String = "both"
~ INPUT_CHANNEL: String = "in"
~ OUTPUT_CHANNEL: String = "out"
~ LOG_CHANNEL = "log"

Runtime EOFException

~ Runtime EOFException(msg: String)