Exception

<> Dialog Exception

<<throws>>

Receiver: Class

<> Command

#-validityPredicate

Validity Predicate

1

Menu —Command

*

#-display 1

Display

--ui

#-form 1

Type: Class

<> Input

Form --entries

--ui

Dialog

--subsystem

Error Messages

Messages

Interaction Using Swing

<<interface>> Interaction

1

Interaction Using Text

Swing Panel
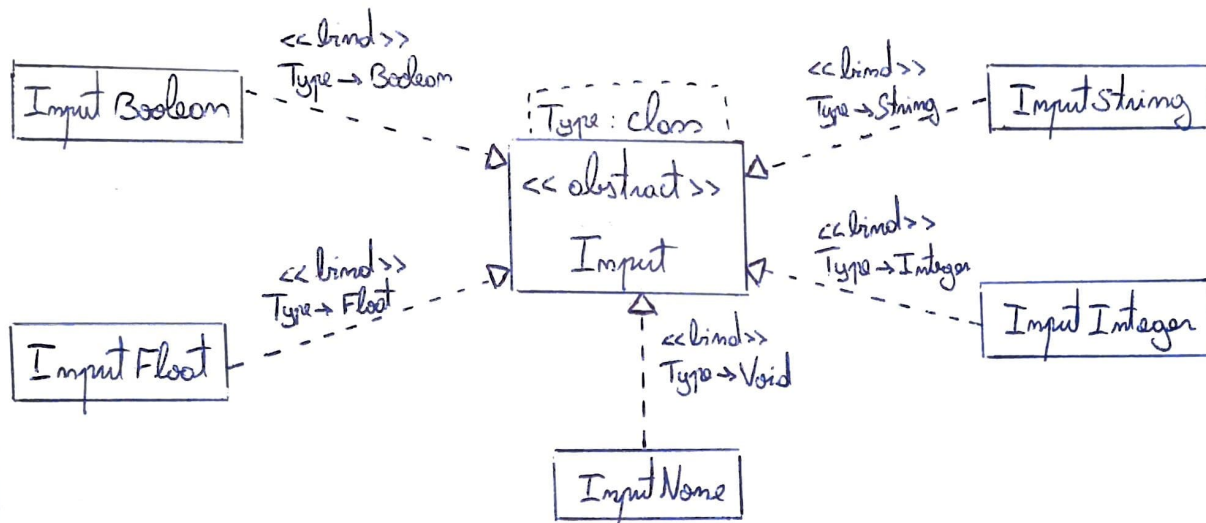
Interaction Using Applet is obsolete. Constants and Property Names are also ignored, due to their irrelevance to the structure.

pt. tecnico. po. ui

Input Boolean

<< bind >>
Type → Boolean

Type : class

<>

Input

<< bind >>
Type → Float

Input Float

<< bind >>
Type → String

Input String

<< bind >>
Type → Integer

Input Integer

<< bind >>
Type → Void

Input None

pt. tecnico. po. io

Runtime EOF Exception

Composite Print Stream

-~ streams : Collection
-~ error : boolean
<< final >> add (st: Print Stream): void

Classes from Java. lang and other Java packages have been omitted, and so have the Object methods overrides like equals and to String, due to the fact that these are irrelevant to this diagram.

Menu

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

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

<> ValidityPredicate

- # _receiver : Receiver

- + <> isValid : boolean

Dialog

- - <<final>> ACTION_SWING : String = "swing"
- - <<final>> ACTION_TEXT : String = "text"
- + IO : Dialog
- - _subsystem : Interaction

- + setTitle (title : String) : void
- + menu (menu : Menu) : void
- + form (form : Form) : void
- + message (d : Display) : void
- + close () : void

<<Interface>> Interaction

- + menu (menu : Menu) : void
- + form (form : Form) : void
- + message (display : Display) : void
- + setTitle (title : String) : void
- + close () : void

Interaction Using Swing

- + close () : void
- + menu (m : Menu) : void
- + form (f : Form) : void
- + message (d : Display) : void
- - message (s : String, title : String) : void

Interaction Using Text

- - _in : BufferedReader = new BufferedReader(new InputStreamReader (System.in)
- - _out : PrintStream = System.out
- - _log : PrintStream = null
- - _writeInput : boolean

- + closeDown () : void
- + menu (m : Menu) : void
- + form (form : Form) : void
- + message (display : Display) : void
- + setTitle (title : String) : void
- + close () : void

<<final>> ErrorMessages

- ~ <<final>> invalidOperation (error : String) : String
- ~ <<final>> errorEOF (eof : EOFException) : String
- ~ <<final>> errorIO (ioe : IOException) : String
- ~ <<final>> errorInvalidNumber (nfe : NumberFormatException) : String
- ~ <<final>> errorREOF (eof : RuntimeEOFException) : String
- ~ <<final>> inputError (fnfe : FileNotFoundException) : String
- ~ <<final>> errorClosingInput (ioe : IOException) : String
- ~ <<final>> endOfInput () : String
- ~ <<final>> outputError (fnfe : FileNotFoundException) : String
- ~ <<final>> invalidNumber (nfe : NumberFormatException) : String
- ~ <<final>> logError (fnfe : FileNotFoundException) : String

Form

- _ui: Dialog
- _title: String
- _entries : List < Input< ?>>_entries

+ title(): String

+ entries (): Collection < Input< ?>>

+ entry (i:, int): Input< ?>

+ add (in: Input<?>) : <T> Input <T>

+ add Boolean Input(label: String): Input <Boolean>

+ add String Input (label: String): Input <String>

+ add Float Input (label: String): Input <Float>

+ add Integer Input (label: String): Input < Integer>

+ parse(): void

+ parse(clear: boolean): void

+ clear (): void

Display

- _title : String = " "
- _text: String = " "
- _ui : Dialog

+ add (text: String): Display

+ add Line (text: String): Display

+ add newLine (text: String, force: boolean): Display

+ get Title (): String

+ get Text (): String

+ display (force : boolean): void

+ popup (toPop: Object): void

Messages

+ <<final>> invalid Operation (error: String): String

+ <<final>> select AnOption (): String

+ <<final>> invalidOption (): String

+ <<final>> exit (): String

«abstract»
Command

- _last: boolean
- _title: String

#_receiver: Receiver = null
#_validityPredicate: ValidityPredicate<Receiver> = null
#_form: form
#_display: Display

+ «final» title (): String
+ isLast (): boolean
+ isValid (): boolean
+ «final» perform_command (): void
+ «abstract» execute (): void

«abstract»
Input

- _prompt: String
- _regex: string
- _clear: boolean
#_value: Type

+ prompt (): String
+ set (value: Type): void
+ clear (): void
# dirty (): void
+ cleared: boolean
+ «abstract» parse (in: String): boolean
+ regex (): String

InputBoolean
+ parse (in: String): boolean

InputString
+ parse (in: String): boolean

InputFloat
+ parse (in: String): boolean

Input Integer
+ parse (in: String): boolean

InputName
+ parse (in: String): string

«abstract»
Dialog Exception
+ «abstract» getMessage (): void

Messages

+ <<final>> invalidOperation (error : String) : String

+ <<final>> selectAnOption () : String

+ <<final>> invalidOption () : String

+ <<final>> exit () : String

Declaro por minha honra que este diagrama foi realizado apenas pelos elementos
que constituem o grupo de projeto (grupo 53).

Maria Campos

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Tomás Pereira