

Dialog

- <<Final>> ACTION_CHANNEL : String

- <<Final>> CHANNEL_SWING : String

- <<Final>> CHANNEL_NEW_SWING : String

- <<Final>> CHANNEL_TEXT -

+ <<Final>> UI : Dialog

- -backend : InteractionDriver

+ Dialog(backend : InteractionDriver)

+ open(menu : Menu) : void

+ fill(form : Form) : void

+ render(title : String, text : String)

+ close() : void

InteractionDriver

open(menu : Menu) : void

fill(form : Form) : void

render(title : String, text : String)

close() : void

Display

- ui : Dialog

- title : String

- text : String Builder

+ 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

+ popup(toPop : Object) : void

+ popup(toPop : Collection<?>)

+ clear() : void

util

Form

all b. forms

- mi : Dialog
- title : String
- Fields : Map<String, Field<?>>

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+ Form (title : String)
+ Form (mi : Dialog, title : String)
+ title () : String
+ entries () : Collection<Field<?>>
+ Field (key : String) : Field<?>
- add (key : String, in : Field<?>) : Void
+ add BooleanField (key : String, label : String) : Void
+ add StringField (key : String, label : String) : Void
+ add RealField (key : String, label : String) : Void
+ add IntegerField (key : String, label : String) : Void
+ add OptionField (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
    
```


<<abstract>> Type: Class
Field

- prompt: string
- clean: boolean
value: type

+ prompt(): string
+ set(value: Type): void
+ value(): Type
+ clean(): void
dirty(): void
+ cleaned(): boolean
+ isReadOnly(): boolean
+ <<abstract>> parse(in: String): boolean

Field Boolean

<<Final>> BOOLEAN-WORD-YES: string
<<Final>> BOOLEAN-WORD-NO: string
<<Final>> BOOLEAN-CHAR-YES: char
<<Final>> BOOLEAN-CHAR-NO: char

+ parse(in: String): boolean

Field Integer

+ parse(in: String): boolean

FieldName

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

Field Option

- options: String[]
+ parse(in: String): boolean

Field Real

+ parse(in: String): boolean

Field String

+ parse(in: String): boolean

Form Exception

+ FormException(msg: String)

Milib. Forms

<<abstract>>
Command

Receiver: Class

- 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)

DAO per Menu

<<final>> execute(): void

Menu

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

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

utilib. menus

Composite PrintStream

- 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(sth: 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(sth: String): void
+ setError(): void
+ write(buf: byte[], off: int, len: int): void
+ write(b: int): void
+ write(b: byte[]): void
    
```

RunTime EOFException

```

RunTime EOFException()
RunTime EOFException(msg: String)
    
```

TextInteraction

- in: Buffered Reader
- out: PrintStream
- log: PrintStream
- writeInput: boolean

```

+ close(): void
+ open(): void
+ fill(form: Form): void
+ render(title: String, text: String): void
- <<final>> readString(prompt: String): String
- <<final>> readInteger(prompt: String): int
    
```

utilib.text

