

- prompt : String - clear : boolean # Value: Type # Field () # Field ( pronft: String) + brompt (): String + set ( value : Type ) : Void + Value (): Type + clear (): Void # Livty(): Void + cleared (): boolean + is Read Only (): boolean + ccabstract >> parselin: String) boolean Dialog - ( I ina) >> AETION\_CHANEL: String= "uil - < cfinal > CHANEL\_SWING: Hing: "Swing" - < ( Jina ) > CHANEL NEW WHO: String = "newswing" - < finglo>6HANEL-TEXT: String = "text" +UI: Dialog - backend : Interaction Driver - Dialog() + Dialog (backend: Interaction Driver) + open (menu: Menu): Void + fill (form: Form) : void + render (title: String) text: String) wid tclosel) : Void

«abstract»

FieldBoolean - ccfinal => BOOLEAN WORD YES: String= "Sin" - << final >> BOOLEAN WORD NO: String = " had" - copinal >> BOOLEAN CHAR YES: String = 151 - < final >> BOOLEANEHAE, No: char = 'n' ~ Field Boolean (prompt: String) + parse (in: String): boolean

FieldInteger ~ Field Integer (prombt: String) + parse (in: String): boolean FieldNone

~ Field None ( prompt: String) + barse (in: string): boolean + is Read only (): boolean ec interface >>

Interoction Driver topen (menu: Menu) : Void + Sill (form: Form): Void trander (title: String, text: String): Void telosel): void

ccinterfaces Messa ge + Operation Failed ever: String): String Field Option

" . options: String[]

[~ Field Option | prompt: String, options: String[] + parse (in: String): boolean

Menu

- ni: Dialog - title: String

" Commands: Command = ? > [ ]

+ Menulai: Dialog, title: String, commands: commanders.

+ menultitle: String, commands: Commands : ...

+ Size():int +entry(n:int): (ommand 6?>

+open(): Void

FieldReal

NField Real ( prompt: String) + parse (in: String): boolean

FieldString

~ Field String ( prompt: String) + parse (in: String): boolean

Do Open Menu

+ DeopenMenullabel: String, reciever: Menu) # cofinal >> execute (): void

( abstract 1) Command (Reciever)

- last : boolean - title : String

# reciever : Reciever

A- Valid : Predicate < Reciever>

= Kefinals - form: Form medinal >> Lisplay: Display

+ Command (last: boolean, title: String

+ Conmand (last: boolean, title: String, reciever: Reciever)

+ Commandlast: boolean, title: String, reciever: Reciever, valid: Predicate (Reciever)

+ Connand (+itle: String, raciever: Reciever)

+ Command (title: String, reciever: Reciever, Natid: Pardicate & Recievers)

+isValid (): boolean

tald Boolean Field ( Mey: String, prombt: String): Void

tadd Real Field (neg: String, prompt: String): woid

+add Integer Field ( Ney: String, brompt: String): Void

+allString Field ( neg: String, prompt: String): Loid

+add Option Field ( heg: String, prempt: String, options: String ...): Wid

+ boolean Field ( Ney: String) : Boolean

+ real Field (heg: String): Double

t in teger Field ( New: String): Integer + string Field ( ney: String): String

+ option Field ( ney: String): String

+ 25 finals) perform (ommand (): usid throws Command Exception

## Form - ni: Dialog - title: String - fields: Map (String, Field (?>> + Form () + Form (title: String) + Form ( Mi: Dialog, title: String) tadd Boolean Field ( Ney: String, label: String); boid tall String Field (May: String, label: String): Veil talk Neal Field ( Neg: String, label: String): Void tadd Integer Field ( Neg: String, label: String): Void taddoption Field ( Meg: String, label: String, option: String ...): Void + parse (): Form + parse (clear: boolean): Form +clear () : Void +confirm ( prompt: String): Booleah traquest Integer (protect : String): Integer trequest Real ( prombt : String): Double + Kequest String ( prompt: String): String + request Option ( brombt: String, options: String ... ): String

Message
+ Neg Already Exists ( form: String, Neg: String): String
+ form Not Filled (form: String): String
+Meg Not Found (form: String, Meg: String): String
+type Mismatch (form: String, May: String, actualty po: String, requestally position)
: String

«interlace»

## Display -ui: Dialog -title: String = "" - text: String Builder + Display () + Display (title: String) + Display (mi: Dialog, title: String) +add (+oAdd: Object): Display tadd All liters: Collection <?>): Distlay +addLine (+oAdd: Object): Display tad Newline (toold: Object, force: besteam): Display + display (): Voil + display Text (): void + popup (totap: Object): beid + bopup (to Pop: Collection (?>): void tclear (): Void

## Text Interaction - in: Buffered Reader - out: Print Stream - log: Print Stream - write Inpot: boolean + text Interaction () + close(): void + open (menu: menu): void + fill (form: Form): void + render (title: String, text: String): void - read String (prompt: String): String - vead Integer (prompt: String): int

- Serial Version UID: logg  + Form Exception (nsg: String)  Runtime EOF Exception  - Serial Version UID: long  + Runtime EOF Exception () + Runtime EOF Exception (nsg: Stri	1	Form Exc	eption	
Runtime EOFException - Serial Version UID: long + Runtime EOFException()	- Serial	levsion UI	D: long	The state of the s
- Serial Version UID: long + Runtine EOFException()	+ Form	Exception	(nsg: Strin	9)
- Serial Version UID: long + Runtine EOFException()	P.	timeFo	FFxcehtion	
+ Runtine EOFException ()	Marine Committee	transfer for a selective comment with the selection of th		herrorini-nablinaspiene(i)hili
D. tim FOF Frential Maconst.				ments of 1000 decimal rest
+ KUNTINE ET EKCEPTION 1003. 3 [VII	+Runtin	e EOFEXC	eption msg:	Striv

- Serial Version UID: long

+Command Exception ( hsg: Stu;	na l
+ (chmand Exception msg: Stri	-
«interface»	
Prompt	
	Theorem and the second
+obtion (): String	
texit(): String	

reinterface?	
Property	
+WRITE_INPUT: String	
+ BOTH - CHANELS : String	
+INPUT_CHANEL: String	
+OUTPUT_CHANEL: String	
+LOG_CHANEL: String	1
Company and the second company of the second	ortonia magazini di Santania

```
Composite Print Stream
- streams : Collection & Print Streams
- error : boolean
+ Composite Print Stream ()
+ Composite Print Stream ( print Streams: print Stream ...)
tadl ( ps: Print Stream): Void
+ chech Error (): boolean
+close(): Void
+ Plush 11: Loid
+ brint ( b : boolean) : Void
+ brint (c: char) : void
+ print (c: char[]): Void
+ print(1: double): void
+ print( P: Ploat): Void
+ print(i: int) : Loid
+ print ( (: long) : Void
+ print (o: Object): Void
+ bright (s: String): Void
+ printlu (b: boolean): Void
+ println ( eschar) : void
+ println(c: char[]): Void
+ println( d. doub) : with
+ println(8: Sloat): Loid
 tout ( ( : i ut) : void
+ printla (t: long): Void
```

+write (bog: byte I], off: int, len: int) : word

thrintla (0: Object): Void
thrintla (s: String): Void

+ write (b: int): void
+ write (b: byte []): Void

# Set Error (): Voil

## «cinterface»

```
tinualid Operation (enter: String): String

tinualid Option (): String

terror EOF(e: EOFException): String

terror To (ioe: IO Exception): String

terror REOF(e: Runtime to Ferception): String

tinpot Error (e: File Not Found Exception): String

terror (losing Input (e: To Exception): String

tend Of Input (): String

tout put Error (e: File Not Found Exception): String
```

+ log Error (e: File Not Found Exception): String