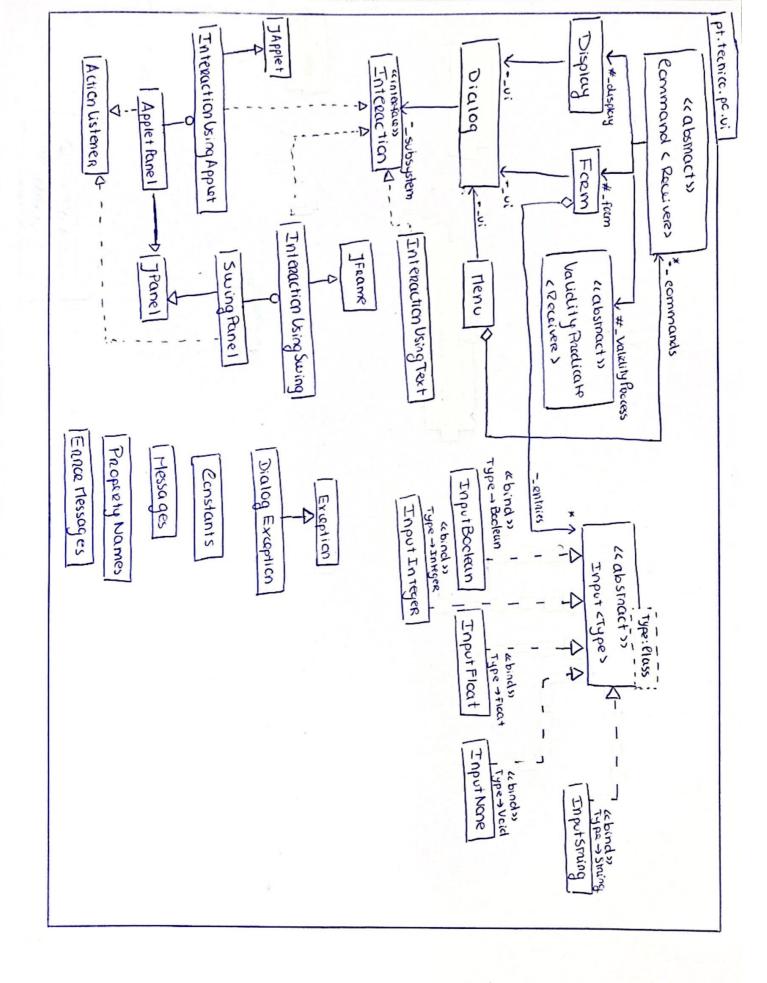
De closeo de Honso.

Velossa for minho.
honson que est e
déorgramo foi
Realizordo gree constituem
a greefo de Profeto:

lerson Re

Declaro por minha hanza que este dia grama foi realizado apenas pelos elementos que constituem o grupo do projeto:

Sofia Mongado



pt. tecnico. pc. vi + INPUT CHANNEL : Stairs - Utinal » readsming (prompt: + OUTPUT - CHANNEL ! - afinal paint (text: Staing): void + WRITE - INPUT : SINING = - defination Read In Kyer (pricompt: + close Down() : void 1000 + BOTH - CHANNELS: - - log: Prior strucon = null - \_ cut : Print Struam = System. cut -\_ in : Buffered Reader ce finals Pacpeaty Names ACTION - CHANNEL: STAIR LOG-CHANNEL: PREPORTY Names () staing = "109" smire " aut" ce finals point incrext: Strung): void sming): Sining slaing e " both " - weite Input : booken Interaction UsingText() String ): int " weite I nput " Interaction Using Text ~ entries(): Command (?>1) + entay(n: int) : (command <?> + size () : (n+ + cpen(): void + +11 lel): Staing # - RECEIVED : RECEIVER + Menu Cui: Dialog, +He: String, economands: Economands ?>[]) + Henr (title: sloing, commands: + variably freducate coessives: -\_ vi: Dialog points: will - -+ & abstracts is Valid () : baclean - - commands: Command <?>[] Validity Predicate (Peciver) (command <?>[1] Rewise? ccabsmact >> Tenu + select An Option () : Staing + invalid Option (): String + invalid Operation (egace: String) Hessoses () exit () : Sining « final» Messages

## ccabstract >>

Rommand & Receiver)

- -last: boclean
- Bridge altit
- RECLUCE: RECEIVER = null
- # validity Prodicate:

Validity Producate < Receiver> = null

- # fcem : Fcem - display: Display
- + Pommand (last: double, + 1+le: Straing)
- + Rommand Clast: boolean, title: Sring, Receiver : Receiver)
- + Permana (last: boolean, title: Staing, predicate: Validity Predicate «Receiver»)
- + Rommand (title: String, Receiver: Receiver + Command Chitle: String, Receiver: Receiver) predicate: valitidy frodicate < Receiver>)
- + << final >> title(): Sming
- + islast(): boclean
- +isvaud(); boolean
- << final>> perform-command (): void
- ccabsmacto executed: void

## echstants constants

- MAIN\_TITLE : String =
- + BOCLEAN WORD YES : String =
- "sim"
- + BOOLEAN WORD NO: Staing = 1000
- BOCLEAN CHAR YES : CHORE
- + BOCLEAN CHAR NO : Char=
- REGEX ZUBBER INTEGER: 5ming = "[0-9] +"
- + REGEX NUMBER REAL :
- REGEX Straing: Straing = " \*" Staing = "[0-9]+ 11. [0-9]+ [eE][+-][0-9]+"
- Constants()

- "Pacquaração ecm Objetos"
- Dialog()
- + Dialog (action: Interaction)
- + set Title (title: Smirg): void
- + menu (menu: Menu): void
- + elose (): void + message (d: Display) : void
- Dialog Exceptions reabstract >>
- ~ serial version uno : long = 2006102916011

- Dialog
- ACTION SWIDS: STRING = "SwING
- + IO : Dialeg
- ACTION TEXT: String = "text"

pt. tecnico pc.vi

Proplay

-+1144: String = "" -vi: Dialog

\_text: Staing = ""

Okoldsia

+ Display (vi: Dialog, +ith: Sning) + Display (+ith: string)

+ add Line (text: String): Display + add (+ex+: Smirg): Display

+ odd New Line (+ext : String, fora: bookan): Display

+ get Text (): String + get Title (): Staing

+ display (for a: booken): void du's play (): void popup (to Pop: Object) i void

SULLING

endofinput (): Staing

~ cuipui Errock (finfe:

~ log Eurox (finfe: File Not fund Exception): Stains

Eerce Messages ection 133

~ invalid Operation (error: String) String

3 ennox EOF (ecf: EOF Exaption): Burus

error TO (ice: TO Exaption ):

STATE

~ ERROR Invalid Number (npe: Number format Exception);

Stains

~ enaca RECF (ecf:

~ input fanca (fafe) File Not Found Exaption): Staing Runtime Ecferaption): String

ERRCA Closing Input Lice:

ICExaption: Stating

~ invalid Number (nfe: Number Format Exaption);

File Net Found Exaption ): Stains

- ERNCE MESSAGE ()

+ FCRM()

+ FCRM (Title: String)

+ Frem (vii Dialog, title: String)

+ title(): Staing

+ entries(): Pellection canpute?>>

+ entry (i: int): Inputc?>

+ add Boolean Input clabel: Sning): + add (in: Input <T>): <T> Input <T>

+ odd String Input Clabel: String): Input & Booleans

+ add Float Input clabel: Sining): Severy > todat

+ add Integer Input Clabel: String): Input < Float> INPUT < INTEGER>

+ paese(): void

+ parse ( clear: bocken): void

char O. void

FCRM

-\_ title: Staing

-entaies: List (Input <?>>

- \_ vi : Dialog

+ set (value: Type): void # In put (pacompt: Staing) pt.tecnicc.pc.vi + cleaned (): boclean # diety (): void + Input Boblean + Reger (): Staing + clear (): void + Inputfloat (prempt: Simy) + value (): Type # Input () Concompt: String) (cabstnact) passe (in: String): Regex: String) - clear: boclean backan - pacopt: String pricing : string Input Float -value: Type Input Boolean ergex: String Input < Type> < abstracts 4 settitle (title: Slaing): void + Input Staing (prempt: Sming + message (display: Display): - message (s: straing, lithe; straing + menu (menu: Menu): voi d - main(): void + form (form: Form): void Input None (prempt: String. voich InputInteger (pricing) sepial Versich uid: lang=201609131566 Input None close(): void Interaction using Appliet Input Integer Input String cc interfaces> In teraction - ccsynchecnized>>await():void - - end: book an ζ -- inputs: Map < Inpute?), J Text Field> - serial yeasion UID: long = 201608 231505 L - pange (): backan
- swing fanel (m: rien)
- swing fanel (fam: fam)
- swing fanel (ts: Sinny, fille: Sinny) - Lend: boolean · ccsynchemized» sleep (n: in+) : void se zial Version UID : long = 201608221459L - scsynchecnizeds> steep(n:in+): void - serial version UID : long = 20160 E2315 15 L - cpt; int - cotion(): int - message (s: Sining, title: String) -ccsynchrochized manual + (): veid cption(): int Appler Panel (s: String, +1+le: String) A polet Panel (form. Form) parse(): boolean \_ins: Map (Input <?>, I Textfield> -qpt:int Interaction Using Swing() Applet Panel (m: Menu) «fire 133 lock: Object Interaction Using Swing Applet Panel Swing Panel

