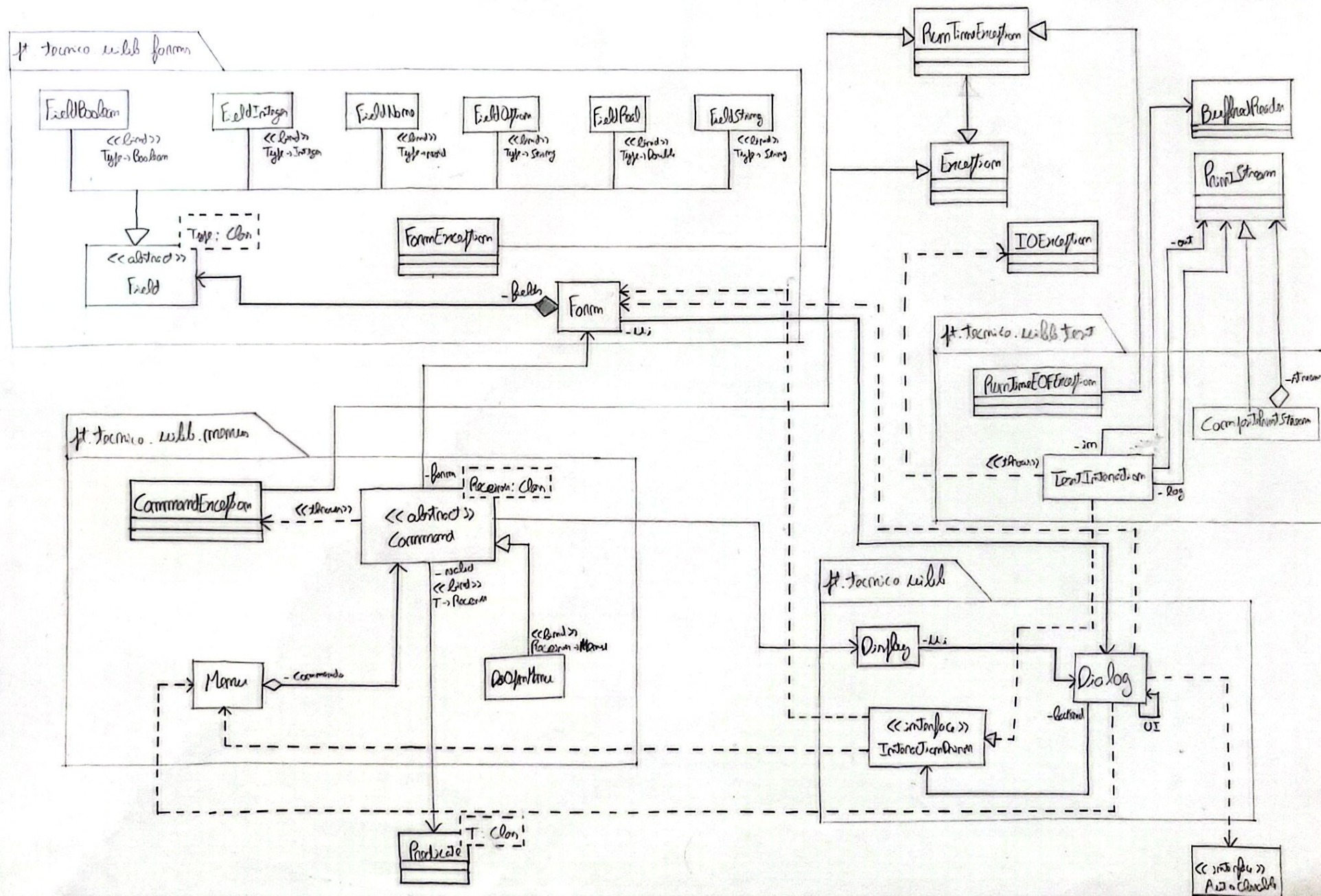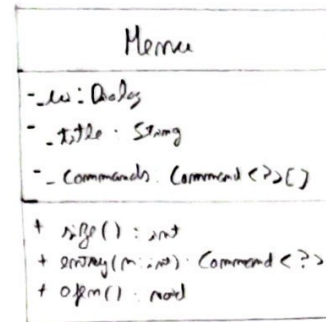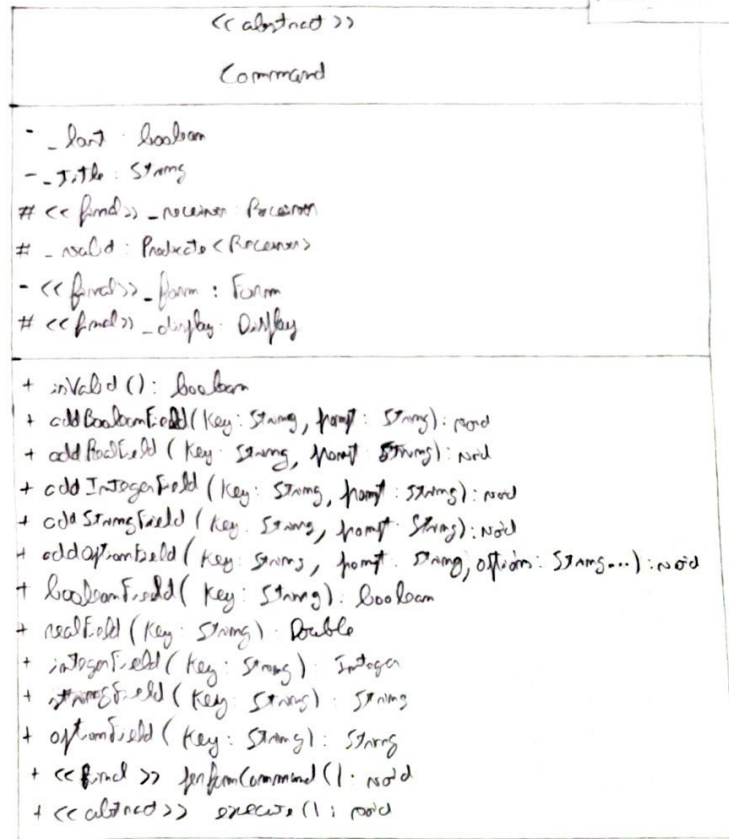Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projeto. Gonçalo Melo

Package : p. tecnico.utili.menus
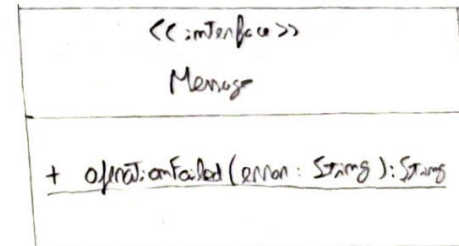
Receiver : Class

```
              <<abstract>>
               Command
─────────────────────────────────────
 -  _last : boolean
 -  _title : String
 #  <<final>> _receiver : Receiver
 #  _valid : Predicate<Receiver>
 -  <<final>> _form : Form
 #  <<final>> _display : Display
─────────────────────────────────────
 +  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, option: 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
```

```
              Menu
─────────────────────────────────────
 -  _io : Dialog
 -  _title : String
 -  _commands : Command<?>[]
─────────────────────────────────────
 +  size() : int
 +  entry(m: int) : Command<?>
 +  open() : void
```

```
           <<interface>>
             Message
─────────────────────────────────────
 +  operationFailed(error: String): String
```

DoOpenMenu

CommandException

package: it.tecnico.utils.text

«Interface»
Message

- + invalidOption (error: String): String
- + invalidOption (): String
- + errorEOF (e: EOFException): String
- + errorEOI (e: IOException): String
- + errorInvalidNumber (e: NumberFormatException): String
- + errorREOF (e: RuntimeEOFException): String
- + inputError (e: FileNotFoundException): String
- + errorClosingInput (e: IOException): String
- + endOfInput (): String
- + outputError (e: FileNotFoundException): String
- + logError (e: FileNotFoundException): String

TextInteraction

- - in: BufferedReader
- - out: PrintStream
- - log: PrintStream
- - writeInput: boolean
- + close (): void
- + open (): void
- + fill (form: Form): void
- + reader (title: String, text: String): void
- - readString (prompt: String): String
- - readInteger (prompt: String): int

«Interface»
Prompt

- + option (): String
- + out (): String

«Interface»
Property

- + WRITE_INPUT: String
- + BOTH_CHANNELS: String
- + INPUT_CHANNEL: String
- + OUTPUT_CHANNEL: String
- + LOG_CHANNEL: String

CompositePrintStream

- - stream: Collection <PrintStream>
- - error: boolean
- ~ add (ps: PrintStream): void

RuntimeEOFException

package: jt.tecnico.libb

Display

- _ui : Dialog
- _title : String
- _text : StringBuilder

+ add (toAdd : Object) : Display
+ addAll (items : Collections <?>): Display
+ addLine (toAdd : Object) : Display
+ addNewLine (toAdd : Object, fonc : boolean) : Display
+ << final >> display () : void
+ << final >> displayText () : void
+ copy (toCopy : Collection <?>) : void
+ clear () : void

Dialog

- << final >> ACTION_CHANNEL : String
- << final >> CHANNEL_SWING : String
- << final >> CHANNEL_NEW_SWING : String
- << final >> CHANNEL_TEXT : String
+ UI : Dialog
- _backend : InjectionDriver

+ open (menu : Menu) : void
+ fill (form : Form) : void
+ render (title : String, text : String) : void
+ close () : void

<< interface >>
InjectionDriver

+ open (menu : Menu) : void
+ fill (form : Form) : void
+ render (title : String, text : String) : void
+ close () : void

Package : ft. tecnico.wilib. forms

Type: Class

<> Field

- - _prompt : String
- - _clean . Boolean
- # _value : Type

- + clean () : void
- # dirty () : void
- + cleared () : void
- + isReadOnly () : Boolean
- + <> parse (im: String): Boolean

FieldBoolean

- - <<final>> BOOLEAN_WORD_YES: String
- - <<final>> BOOLEAN_WORD_NO: String
- - <<final>> BOOLEAN_CHAR_YES: String
- - <<final>> BOOLEAN_CHAR_NO: String

- + parse (im: String) : Boolean

FieldName

- + parse (im: String): Boolean
- + isReadOnly () : Boolean

FieldOption

- - _option : String[]

- + parse (im: String): Boolean

FieldInteger

- + parse (im: String) : Boolean

FieldReal

- + parse (im: String): Boolean

FieldString

- + parse (im: String): Boolean

Form

- - _ui : Dialog
- - _title : String
- - _fields : Map <String, Field <?>>

- + entries () : Collection <Field <?>>
- + field (Key : String) : Field <?>
- - add (Key : String, im : 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): void
- - get (Key: String, Type: String): Object
- + booleanField (Key : String) : Boolean
- + stringField (Key: String) : String
- + realField (Key: String) : Double
- + integerField (Key: String) : Integer
- + optionField (Key: String): String
- + parse () : Form
- + parse (clean : Boolean) : Form
- + clean () : void
- + confirm (prompt : String) : Boolean
- + requestInteger (prompt : String): Integer
- + requestReal (prompt: String): Double
- + requestString (prompt: String): String
- + requestOption (prompt: String, option: String) : String

<<interface>> Message

- + KeyAlreadyExists (form: String, key: String) : String
- + formNotFilled (form: String) : String
- + keyNotFound (form: String, key: String) : String
- + typeMismatch (form: String, key: String, actualType: String, requestedType : String) : String

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FormException