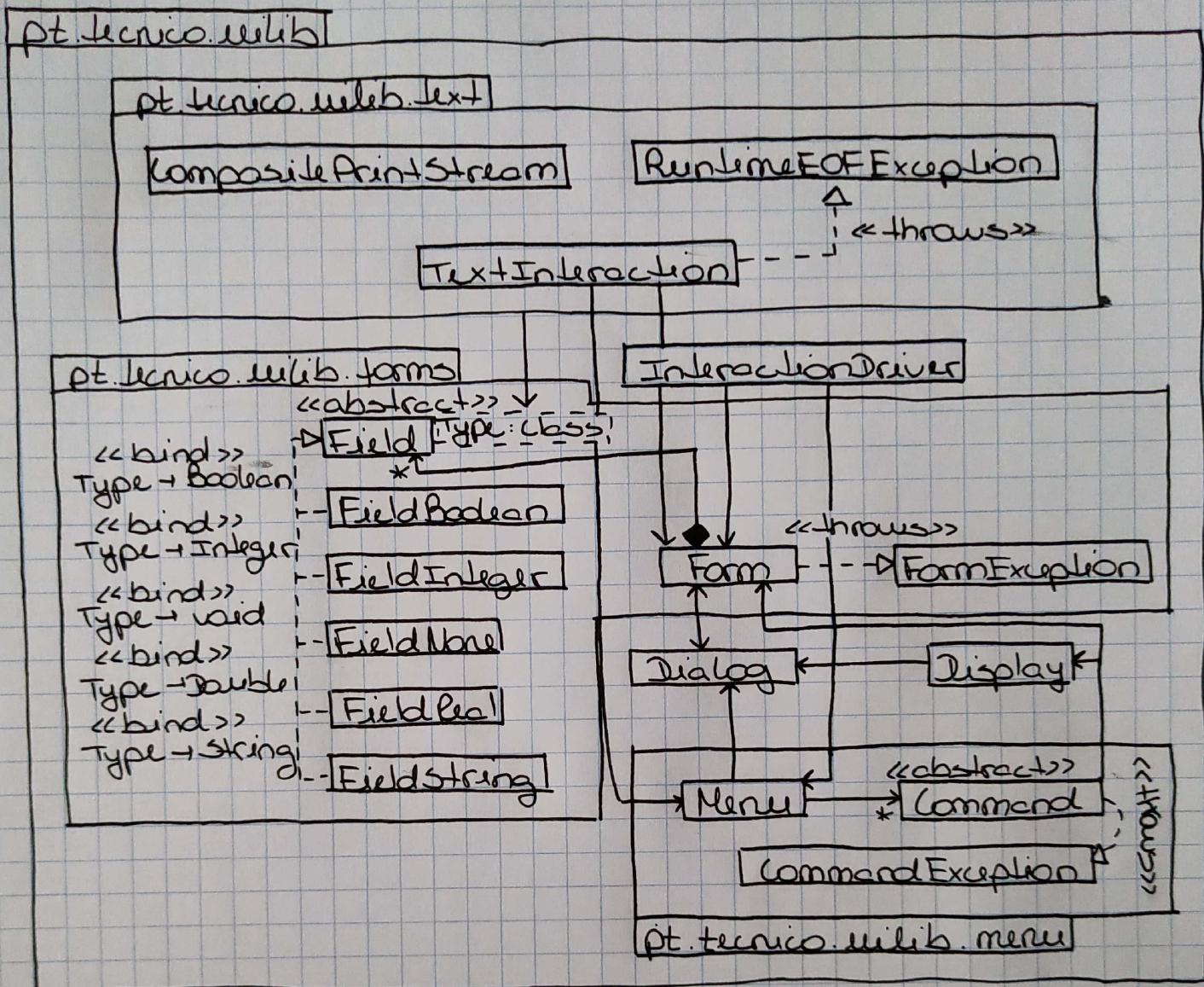
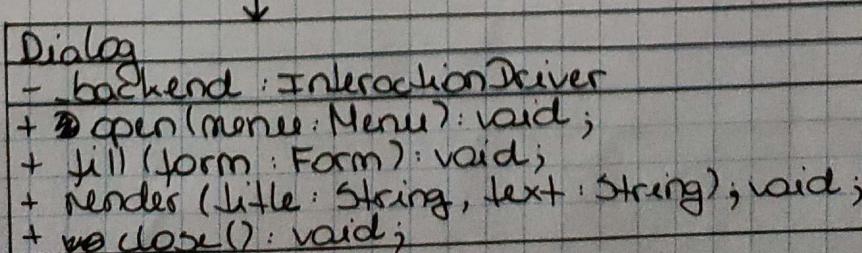
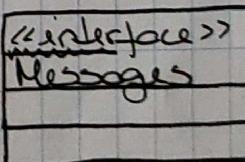
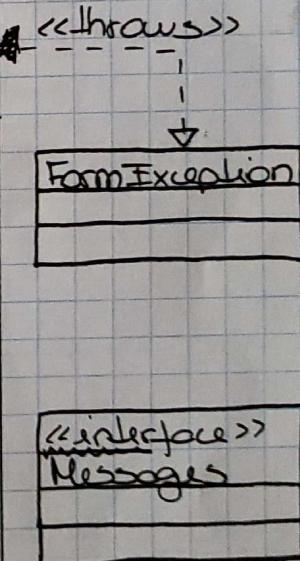
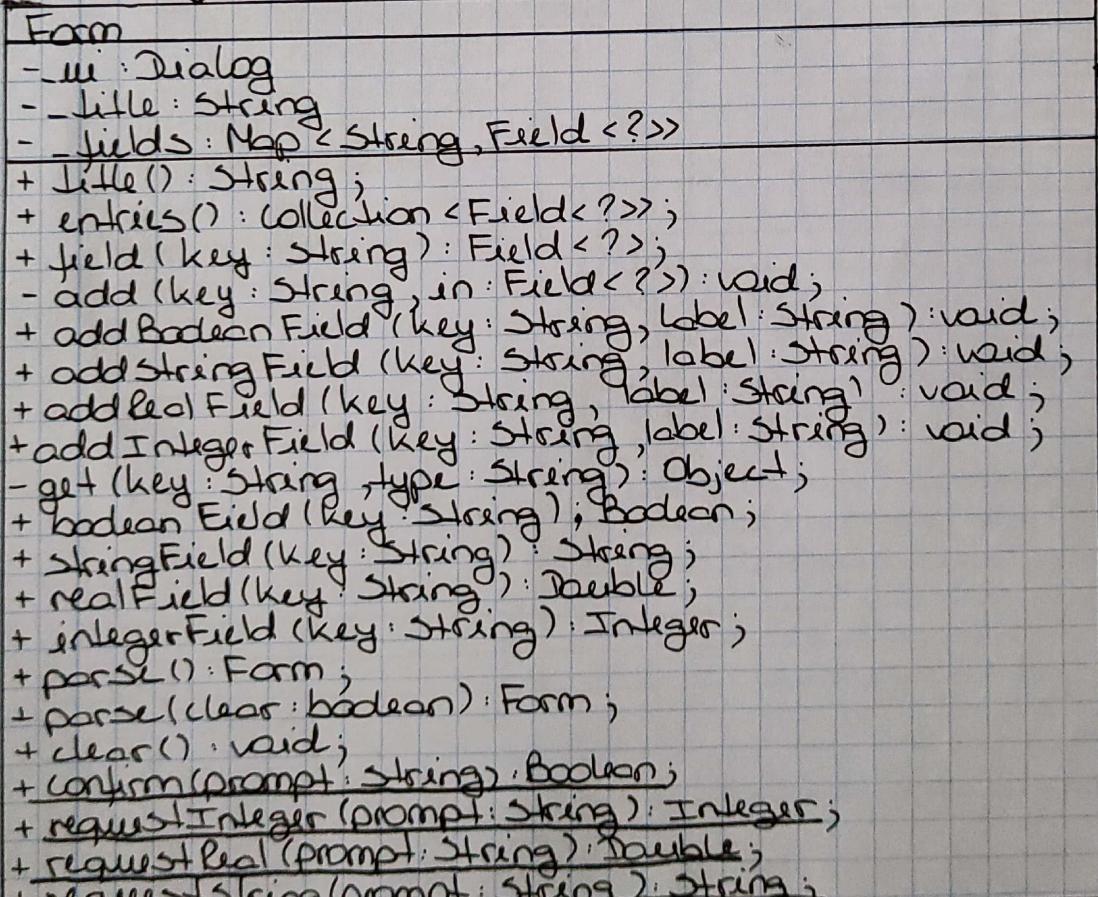
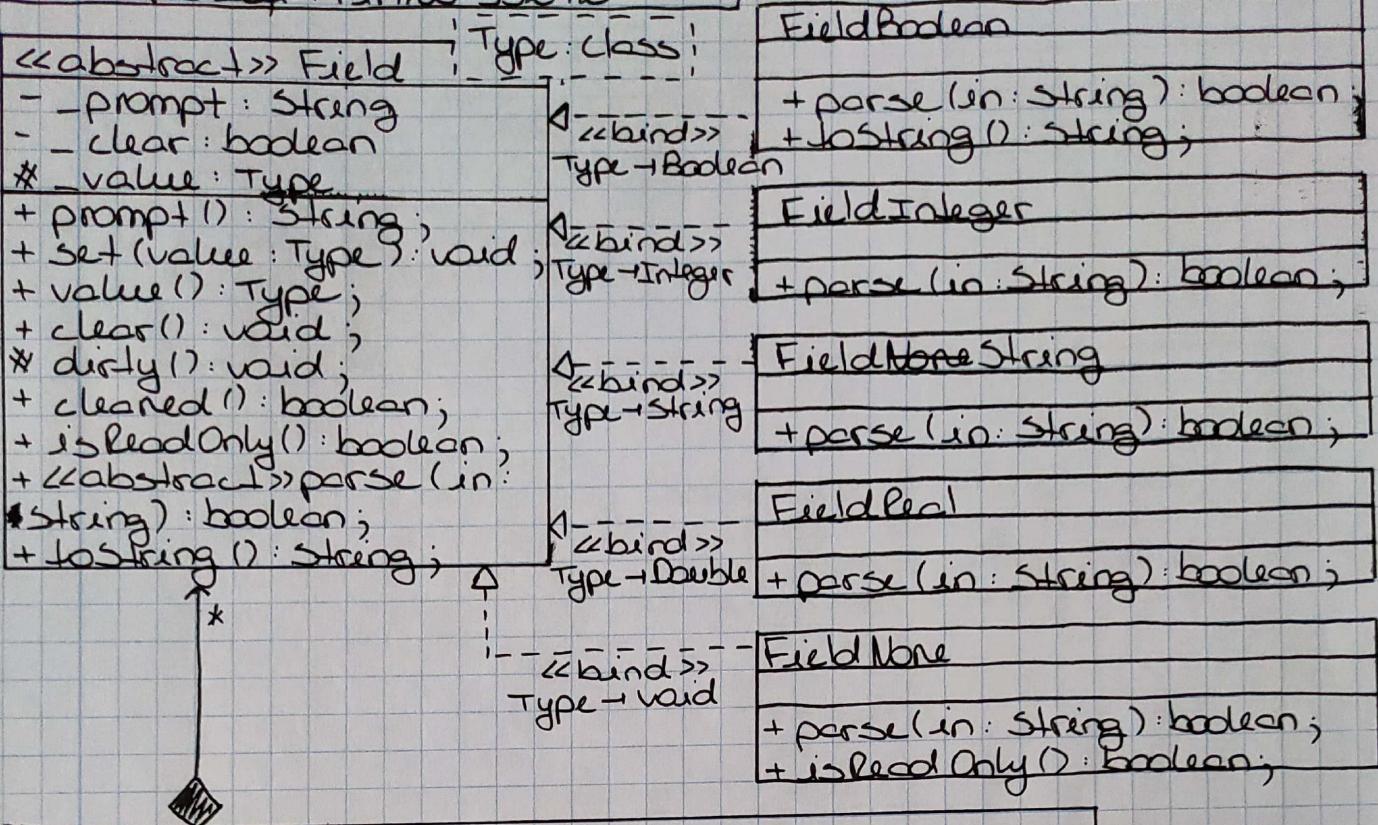


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Diagrama 1





Ipt. Técnico. exlib. menus

```

<<abstract>> Command
    -_last : boolean
    -_title : String
    # _receiver : Receiver
    # _valid : Predicate<Receiver>
    -- form : Form
    * _display : Display
    + 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 ;
    + booleanField(key : String) : Boolean ;
    + realField(key : String) : Double ;
    + integerField(key : String) : Integer ;
    + stringField(key : String) : String ;
    + <<final>> performCommand() : void ;
    * <<abstract>> execute() : void ;

```

<<throws>>

```

<<abstract>>
CommandException

```

```

<<interface>>
Message

```

op.

+ Receiver : Class

↑ <<bind>>
 Receiver → Menu

```

DoOpenMenu

```

* execute() : void;

Menu

```

- ui : Dialog
- _title : String
- _commands : Command<?> []
+ title() : String ;
+ size() : int ;
+ entry(n : int) : Command<?> ;
+ entries() : Command<?> [] ;
+ open() : void ;

```

Display

```

- ui : Dialog
- _title : String = ""
- _text : StringBuilder
+ 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<?>) : void ;
+ clear() : void ;

```

→ Dialog

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Grupo 56

pt.\\tecnico.\\lib.\\text

CompositePrintStream

```
- _streams : Collection<PrintStream>  
- _error : boolean = false  
add <<final>> add(ps: PrintStream): void;
```

RuntimeFOFEexception

||<<throws>>

TextInteraction

```
- _in : BufferedReader  
- _out : PrintStream  
- _log : PrintStream = null  
- _writeInput : boolean  
+ close(): void;  
+ open(menu: Menu): void;  
+ fill(form: Form): void;  
- <<final>> readString(prompt: String): String;  
- <<final>> readInteger(prompt: String): int;
```

<<interface>> InteractionDriver

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

Declaro por minha honra que este projeto foi realizado apenas pelos elementos do grupo 56 do projeto.

M. Sofia Pinto

Declaro por minha honra que este projeto foi realizado apenas pelos elementos do grupo 056 do projeto.

Marcanda Bezerra