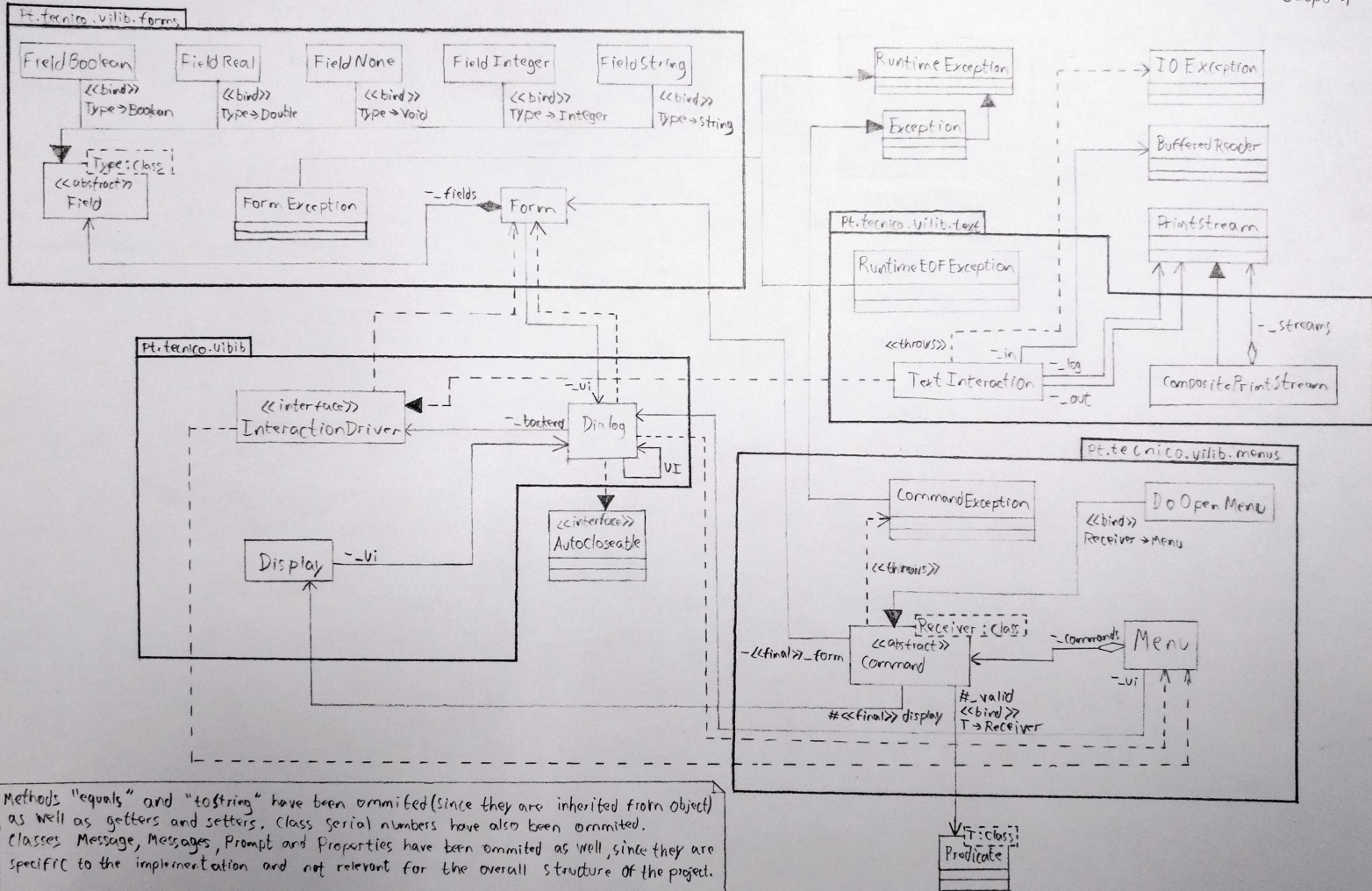


Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projeto. Diogo Correia ist199241  
 Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projeto. Rafael Serra e Oliveira ist199311  
 Grupo 4



Methods "equals" and "toString" have been omitted (since they are inherited from Object) as well as getters and setters. Class serial numbers have also been omitted. Classes Message, Messages, Prompt and Properties have been omitted as well, since they are specific to the implementation and not relevant for the overall structure of the project.

Fields and methods of each (non-empty) class is represented on pages 2 and 3 of this document.

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| <<abstract>> Field                        |  |
|---|--|
| Types/Class                               |  |
| - _prompt: String                         |  |
| - _clear: boolean                         |  |
| # - value: Type                           |  |
| + prompt(): String                        |  |
| + set(value: Type): void                  |  |
| + value(): Type                           |  |
| + clear(): void                           |  |
| # dirty(): void                           |  |
| + cleared(): boolean                      |  |
| + isReadOnly(): boolean                   |  |
| + <<abstract>> parse(in: String): boolean |  |

| Form  |  |
|---|--|
| - _title: String                                    |  |
| + title(): String                                   |  |
| + entries(): Collection<Field<?>>                   |  |
| + field(key: String): Field<?>                      |  |
| - add(key: String, in: 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 |  |
| - get(key: String, type: String): Object            |  |
| + booleanField(key: String): Boolean                |  |
| + stringField(key: String): String                  |  |
| + realField(key: String): Double                    |  |
| + integerField(key: String): Integer                |  |
| + parse(): Form                                     |  |
| + parse(clear: boolean): Form                       |  |
| + clear()   |  |
| + confirm(prompt: String): Boolean                  |  |
| + requestInteger(prompt: String): Integer           |  |
| + requestReal(prompt: String): Double               |  |
| + requestString(prompt: String): String             |  |

| FieldString                  |
|------------------------------|
| + parse(in: String): boolean |

| FieldReal                    |
|------------------------------|
| + parse(in: String): boolean |

| FieldNone                    |
|------------------------------|
| + parse(in: String): boolean |

| FieldInteger                 |
|------------------------------|
| + parse(in: String): boolean |

| Field Boolean                        |
|--------------------------------------|
| - <<final>> BOOLEAN-WORD-YES: String |
| - <<final>> BOOLEAN-WORD-NO: String  |
| - <<final>> BOOLEAN-CHAR-YES: String |
| - <<final>> BOOLEAN-CHAR-NO: String  |
| + parse(in: String): boolean         |

| Menu                        |
|-----------------------------|
| - _title: String            |
| + title(): String           |
| + size(): int               |
| + entry(n: int): Command<?> |
| + entries(): Command<?>[]   |
| + open(): void              |

| DoOpenMenu                  |
|-----------------------------|
| # <<final>> execute(): void |

| CompositePrintStream                   |
|--|
| - _error: boolean                      |
| + <<final>> add(ps: PrintStream): void |

| <<abstract>> Receiver: Class                         |  |
|--|--|
| Command  |  |
| - _last: boolean                                     |  |
| - _title: String                                     |  |
| # <<final>> _receiver: 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  |  |
| + booleanField(key: String): Boolean                 |  |
| + realField(key: String): Double                     |  |
| + integerField(key: String): Integer                 |  |
| + stringField(key: String): String                   |  |
| + <<final>> performCommand(): void                   |  |
| + <<abstract>> execute(): void                       |  |

| TextInteraction                                |
|--|
| - _writeInput: boolean                         |
| + close(): void                                |
| + open(menu: Menu): void                       |
| + fill(form: Form): void                       |
| + render(title: String, text: String): 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                             |  |

| Dialog                                      |
|---|
| - <<final>> ACTION-CHANNEL: String          |
| - <<final>> CHANNEL-SWING: String           |
| - <<final>> CHANNEL-NEW-SWING: String       |
| - <<final>> CHANNEL-TEXT: String            |
| + open(menu: Menu): void                    |
| + fill(form: Form): void                    |
| + render(title: String, text: String): void |
| + close(): void                             |



Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projeto. Diogo Correia ist199291  
Dedare per minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projeto. Rafael Serra e Oliveira ist199311 Grupo 4

| Display   |
|---|
| <ul style="list-style-type: none"><li>- _title: String</li><li>- _text: String Builder</li></ul>  |
| <ul style="list-style-type: none"><li>+ add(toAdd: Object): Display</li><li>+ addAllItems: Collection&lt;?&gt;: Display</li><li>+ addLine(toAdd: Object): Display</li><li>+ addNewLine(toAdd: Object, force: boolean): Display</li><li>+ display(): void</li><li>+ popup(toPop: Object): void</li><li>+ popup(toPop: Collection&lt;?&gt;): void</li><li>+ clear(): void</li></ul> |