Design Pattern Doc Questionnaire

*Obrigatório

Background
Check

This work is centered around the Design patterns from the "Gang of Four", being them Factory Method, Builder, Strategy, Observer, Command, and so on.

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1.	Αt	this	point	~

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	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
I'm comfortable working with Intellij					
I'm comfortable programming in Java					
I'm comfortable working with draw.io					
I know well the GoF design patterns					
I can recognize GoF design patterns in code					
I can implement GoF design patterns					

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____ Female

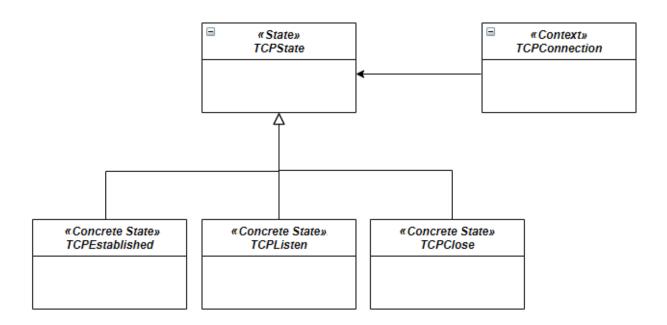
Male

Prefer not to say

3.	What is the highest degree or level of education you have completed? *
	Marcar apenas uma oval.
	High School
	Bachelor's degree
	Master's degree
	Doctoral degree
4.	If you are a student from MIEIC, what is your current year?
	Marcar apenas uma oval.
	1st
	3rd
	4th
	5th
Ta	sks

During this part of the experiment, you will be submitted to a couple of tasks. For each task, you will be given a different source code folder. Note that, at the end of the third task, you will be asked to submit your solutions (more details on how to do this will be discussed later). The experiment will take approximately 40-50 minutes. It is important to do it in a single run, without interruptions.

Some tasks involve submitting class diagrams showing the implementation of pattern instances. An example for this type of task can be seen in the figure below. Note that, we are using stereotypes (<<Role>>), which are not the standard format, for representing the pattern roles. For this type of tasks, we would like you to use: https://draw.io



We suggest to take a quick look at the State design pattern, on the cheat sheet provided, in order to easily comprehend how both diagrams relate to each other. As part of the experiment, you will be given access to the development environment Intellij.

Task 1

5. 1.1. Before starting this task, please write down the current time: *

Exemplo: 08:30

	pattern(s) are represented in the system? *
7.	1.3. Document the pattern instances that you have found as a UML class diagram. Do it as was instructed previously, using <u>draw.io</u> , and specifying pattern roles as class stereotypes
	Ficheiros enviados:
8.	1.4. After you have finished this task, please write down the current time: *
	Exemplo: 08:30
Ta	ask 2
9.	2.1. Before starting this task, please write down the current time: *
	Exemplo: 08:30
10.	2.2. John is trying to implement a simple system for controlling the light of a lightbulb, in his house. Unfortunatelly, he can't get it to work. Which pattern participant(s) are missing? *

11.	2.4.	After you have finished this task, please write down the current time: *
	Exer	mplo: 08:30
Tas 3	sk	The zookeepers from Maia's Zoo have designed a system to easily manage their animal's diet and daily feeding times. Upon the arrival of a new specie to the zoo, the system must be updated accordingly. Today, a specie of Giraffe has arrived to the zoo. Can you help the zookeepers introducing it to the system?
12.	3.1.	Before starting this task, please write down the current time: *
	Exer	mplo: 08:30
13.	patt	Identify the main GoF pattern in this code and explain what changes (objects, tern roles) would you need to apply to the system to contemplate these uirements *
14.	requ	Implement those changes and add the pattern instances documentation uired to understand the extended system. (Here submit only the class grams)
	Fich	neiros enviados:
15.	3.4.	After you have finished this task, please write down the current time: *
	Exer	mplo: 08:30

10.	place the respective source coot the folder and submit it below:	·	•			
	Ficheiros enviados:					
Fin	al feedback					
17. Select your opinion towards the following sentences: *						
	Marcar apenas uma oval por linha.					
		Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
	I found it easy to identify design patterns in the source code					
	I found it easy to document the code using pattern instances in UML format					
	The communication environment (remote computer) had a negative impact in the experiment					

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