Assignment 05 — 14.10.2020 – v1.0
Moldable Development

Please submit this exercise by email to pascal.gadient@inf.unibe.ch before 21 October 2020, 10:15am.

Exercise 1 - General questions (2 pts)

i) Is code reading a problem? Justify your answer.

ii) Give an example (does not have to be from software) where a custom tool improved the productivity by addressing a problem. Which tool did you choose, what is the addressed problem, and how did the tool improve productivity?

Exercise 2 - Inspector extensions (4 pts)

i) The GT inspector displays views from methods that contain the pragma <gtView>. How many classes in Pharo can visualize themselves, because they contain at least one method with that pragma? Provide your implementation.

ii) Improve the DateAndTime class so that the GT inspector can visualize the date and time of such objects within a new view called “Human Readable”.

The view must use the following format: YYYY-MM-DD HH:MM

Exercise 3 - Live documents (4 pts)

i) What are the supported annotation names in live documents? In other words, which annotation names can you use in your live document code?

NB: Annotation names prefix live document code snippets. For example, ${class:Object}$ contains the annotation name class which tells the live document to use the appropriate visualization for classes.

ii) Create a live document that always shows the current number of classes available in Pharo. You have to provide the live document code *and* its implementation. Your live document should look like this:

I consist of 18605 classes.

Step 1:
Create a method (using the correct pragma) that returns all classes. You are allowed to augment existing classes in GT.

Step 2:
Reference the method in your live document code.