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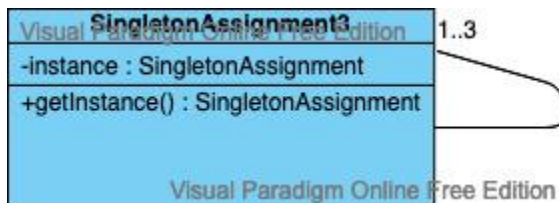
Professor Alizadeh

SE 350

May 20, 2021

<div align="center">Assignment 3</div>

1. The issue with this design is that it violates the Open-Close Principle. The reason
   why it violates this principle is because the run function in the Tiger class
   modifies the run function from its parent class Feline.

2. The issue with this design is that it violates the Liskov Substitution Principle. The
   reason why it violates this principle is because the robots would implement the
   WorkerInterface interface but would not use the method eat(). Code is in
   package exercise2.

3. Code is in package exercise3.

4. Code is in the package exercise4.

UserInterfaceAbstractFactory

+createTextField()
+createPushButton()
+createListBox()

WindowsFactory

+createTextField()
+createPushButton()
+createListBox()

MacFactory

+createTextField()
+createPushButton()
+createListBox()

LinuxFactory

+createTextField()
+createPushButton()
+createListBox()

<<Interface>>
TextField

+getTextField()

WindowsTextField

+getTextField()

MacTextField

+getTextField()

LinuxTextField

+getTextField()

<<Interface>>
PushButton

+getPushButton()

WindowsPushButton

+getPushButton()

MacPushButton

+getPushButton()

LinuxPushButton

+getPushButton()

<<Interface>>
ListBox

+getListBox()

WindowsListBox

+getListBox()

MacListBox

+getListBox()

LinuxListBox

+getListBox()