P.PORTO

ESCOLA
SUPERIOR
DE MEDIA
ARTES
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POLITÉCNICO
DO PORTO

ALP

FICHA DE EXERCÍCIOS
ATIVIDADE LETIVA

Web Programming I

UNIDADE CURRICULAR

Exercises Sheet n°3

FICHA

M01 - Introduction to Vue.js framework

MÓDULO

1) Create a project called **F03EX01** that aims to familiarize the student with the calculated properties. Features:

    a. Create the following Vue instance:

```
<script>
  const vm = new Vue({
    el: "#intro",
    data: {
      person: {firstName: "Rui", lastName: "Silva", age: 23}
    }
  })
</script>
```

    b. Show **person** object in the template

    c. Create 3 instance lifecycle functions at the time of creation, mounting and update. The messages should appear in the console in the format:

        "EVENT: E"

        Where E could be CREATION, MOUNTING or UPDATE

    d. Create a method called **dataPerson** that should print to the console as follows:

        "METHOD--> NAME: N and AGE: A"

        where N and A are the first name and the age of the person.

    e. Add invocation to the method in the template

    f. Create a computed property called **dataPersonComputed** that should print in the console the following string:

"COMPUTED--> NAME: N and AGE: A"

Where N and A are the first name and the age of the person.

g. Invoke 2 times the method and the computed property in the template

h. Change through **DevTools** the age of the person and check in the console, the number of times that the method and the computed property were called

i. Create a computed property named **fullNameComputed** to return the person's fullname

j. Create a watcher to observe any change in the person's age. In this case, you should print on the console: "Age changed!"

k. Enhance the previous watcher to display the following message:

"Age changed from A1 to A2 "

Where A1 and A2 are the person's old and new ages, respectively.

l. Add a new property to the data's object named **balance** with the value 4432 cents.

m. create a filter that displays the person's money in the format: 00,00€