ESCOLA
SUPERIOR
DE MEDIA
ARTES
E DESIGN
POLITÉCNICO
DO PORTO

P.PORTO

ALP

FICHA DE EXERCÍCIOS
ATIVIDADE LETIVA

Web Programming I

UNIDADE CURRICULAR

Exercises Sheet nº4

FICHA

M01 – INTRODUCTION TO VUE.JS FRAMEWORK

MÓDULO

1) Create a project called **F04EX01** that aims to familiarize the student with manipulating classes and styles. Features:

    a. Create the following Vue instance

```
<script>
  const vm = new Vue({
    el: "#intro",
    data: {
      msg: "A ESMAD é uma escola do IPP"
    }
  })
</script>
```

    b. Show **msg** property in HTML template

    c. Create 4 buttons with the following features:

        i. "RED": clicking makes the text red

        ii. "BIG": Clicking should increase text font to 30pt

        iii. "YELLOW": clicking makes the element's background yellow

        iv. "SHOW/HIDE": Clicking toggle text display

2) Create a project called **F04EX02** that aims to familiarize the student with rendering. Following are the features:

    a. Create the following Vue instance:

```
<script>
  const vm = new Vue({
    el: "#intro",
    data: {
      schools: ["ESMAD", "ISEP", "ESE", "ISCAP", "ESTG", "ESS", "ESHT"]
    }
  })</script>
```

b. Show **schools** property in a unsorted listing

c. Enhance the previous example to display the message "NO SCHOOLS" if the array is empty. Otherwise, show the schools

d. Put a heading (before the list) in <h2> with the text: "N IPP Schools" where **N** is the number of elements in the array

e. Create a method that allows you to add a new school (ESMAE) passed as a parameter

f. Filter the list to show schools that begin with the letter E

3) Create a project called **F04EX03** that aims to familiarize the student with rendering. Following are the features:

a. Create the following instance Vue:

```
<script>
  const vm = new Vue({
    el: "#intro",
    data: {
      teams: [
        {name: "benfica", year: 1910},
        {name: "porto", year: 1912},
        {name: "sporting", year: 1914},
    }
  })
</script>
```

b. Show the **teams** property in a unsorted list as follows:

- Name: benfica AND year: 1910

- Name: porto AND year: 1912

- Name: sporting AND year: 1914

c. Iterate over all elements of the array, but this time create a table with the following structure:

#	NAME	YEAR
1	Benfica	1910
2	Porto	1912
3	Sporting	1914

d. Create a button that when clicked adds a new element: Braga, 1923

e. Add a new **location** property and populate the array with its values

f. Create a button that when clicked filters the list to show only teams from Lisboa