

# FINAL Exam: VueJS CLI COMPONENTS

WEP 2023

{3h00}

JUN 2023

1. Document allowed
2. Internet allowed
3. Chatting and talking to other students are forbidden

EXERCICES	POINTS
EXERCICE 1 – BASICS CONCEPTS	30
EXERCICE 2 – COMPONENTS	50
EXERCICE 3 - ROUTING	20
<b>TOTAL</b>	<b>100</b>

## *BEFORE EACH EXERCISE*

To **start each exercise**, you can either:

- Run npm -i
- Or drag and drop an existing node module folder to this exercise folder

## *AT THE END OF THIS EXAM*

At the end of the exam:

- Create a folder: /firstName\_lastName
- Create 3 folders /EX1 /EX2 /EX3
- Copy the /SRC files of each exercise
- Zip and submit this archive file

## EXERCICE 1 – BASIC CONCEPTS

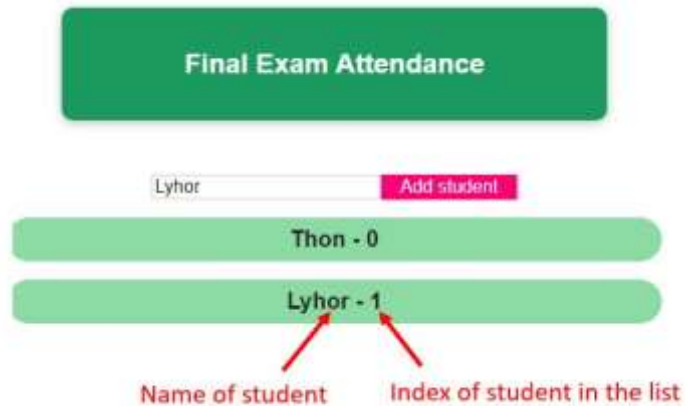
We want to manage a **list of students**

Each student has a **name**

When no students have been added the **following message** should be displayed:



When a student is added, the view shall display a new item with the student **name** and the **index** of the **student** in the list:



When we click on a student item, the student is **removed** from the list:



## EXERCICE 2 - COMPONENTS

### Notes

- You are free to choose your way to style your elements (CSS, bootstrap)
- Expect the fruit card color (orange, green) we will not evaluate your view design

We want to manage a view with a **list of fruits**.

On this view, we want to check **whether our fruits are expired**, by comparing the current date with the fruit expiration date.

The diagram illustrates the 'Fruits Shop' view, which is composed of several key components:

- Fruits Shop Header:** A blue rounded rectangle at the top.
- CurrentDateForm:** A form section containing a 'Today date:' label and a date input field with the value 'June 26 2023' and a calendar icon.
- FruitForm:** A form section containing a 'Fruit:' label with a dropdown menu showing 'Banana', an 'Expiration date:' label with a date input field showing 'June 10 2023' and a calendar icon, and a blue 'Add' button.
- Fruit Card:** A list of three fruit cards, each with a colored background and a 'Show/Hide Expiration Date' button:
  - Apple:** Green background, 'Show Expiration Date' button.
  - Banana:** Yellow background, 'Hide Expiration Date' button. Below the name, it says 'Expiration date: June 10 2023'.
  - Mango:** Green background, 'Hide Expiration Date' button. Below the name, it says 'Expiration date: August 22 2023'.

Here are the main elements of this view:

### 1 Current date form

- This form allows the user **to enter a date**

### 2 Fruit form

- This form allows to add a new fruit to the list

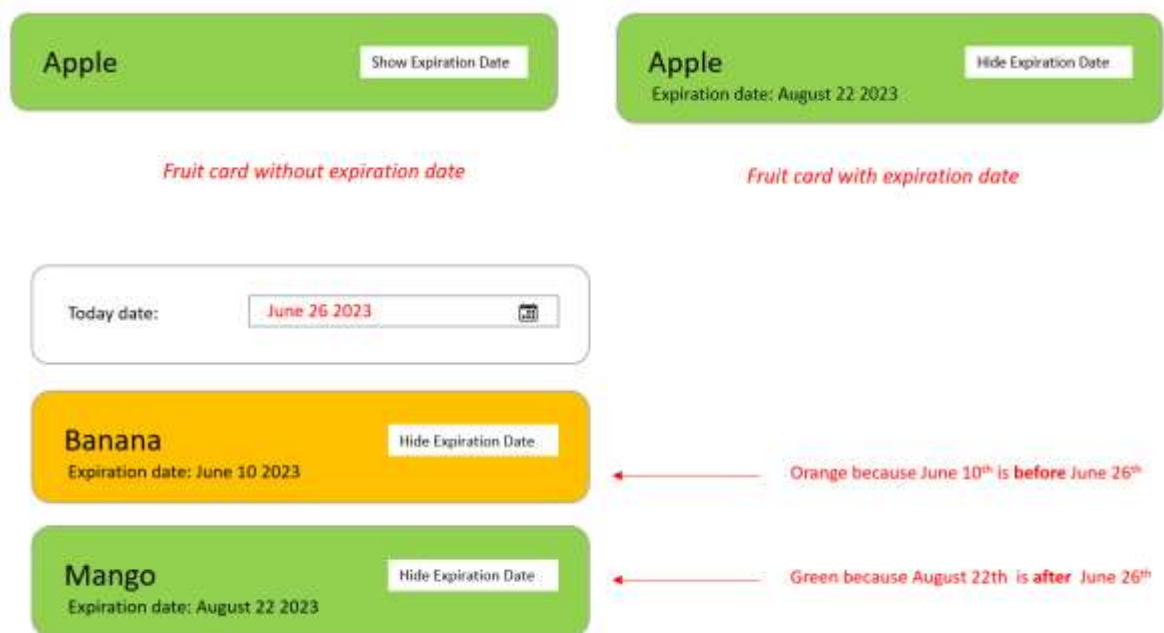
- A Fruit has a name and an expiration date

### 3 Fruit card

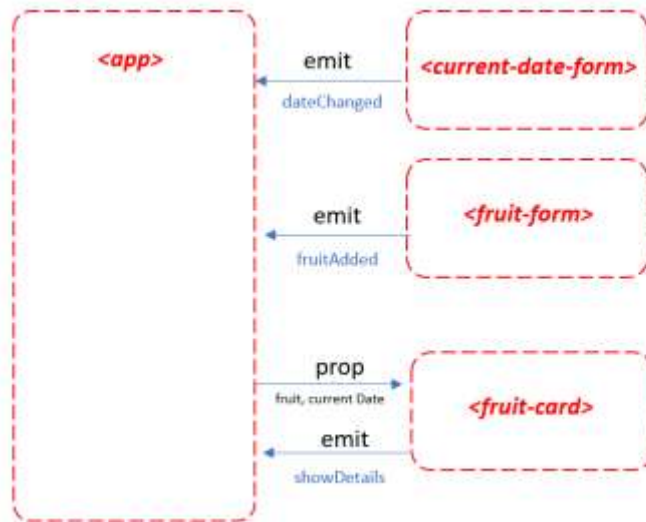
- Each fruit must be displayed using a fruit card
- The fruit card has a button to **show or hide** the fruit expiration date
- The fruit card background color is:
  - Green: if the fruit expiration date is **after or equal** to the today date
  - Orange: if the fruit expiration date is **before** to the today date

*Note: How to compare 2 dates? You can use `getTime()` method:*

[https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\\_Objects/Date/getTime](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date/getTime)



*Here is how we want you to design your components:*



## EXERCICE 3 – ROUTES

This application has a menu bar with 3 menu items

- Students
- Student 2 (display the student 2 details)
- Student 3 (display the student 3 details)

**Note: you shall use the same view for student 2 and 3**

http://localhost:8080/**students**



### Students

http://localhost:8080/**student/2**



### Student details of ID = 2

http://localhost:8080/**student/3**



### Student details of ID = 3