

# UNIT 2

## Angular



### Exercise week 7

Client-side Web Development  
2nd course – DAW  
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# Introduction

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We are going to implement, more or less, the exercise we did in week 2, with Angular. A single page with a list of events and a form to add a new one (**reuse the HTML** from that exercise).

Create a project called **angular-svtickets**. Install also [angular-eslint](#) in this project. After creating it, set the prefix for the components to "" (empty).

Install **Bootstrap** and **Bootstrap-icons** and include the CSS in the **styles.css** file → **npm i bootstrap bootstrap-icons**

```
/* styles.css */
@import "bootstrap/dist/css/bootstrap.css";
@import "bootstrap-icons/font/bootstrap-icons.css";
```

In this project create a component called **events-page**. This will have almost all the HTML we need for this exercise. The **nav** bar and the **div.container** will go in the AppComponent (and the **events-page** selector inside that container). Create an interface called **MyEvent** that will have the needed properties:

```
export interface MyEvent {
  id?: number;
  title: string;
  description: string;
  price: number;
  image: string;
  date: string;
}
```

In the events-page component, create an empty array of Events called **events**, and a single Event object called **newEvent** (with empty fields and no id).

In the HTML, reference each property of the **newEvent** object with the **[(ngModel)]** directive. Example:

```
<input type="text" class="form-control" name="title" id="title" [(ngModel)]="newEvent.title"
placeholder="Enter title">
```

Add the ngModel directive to the input[type=file], but it won't reference any value, just to reset it when a new event is created.

```
<input type="file" class="form-control" ngModel name="image">
```

## Listing the events

Don't forget to include the necessary CSS to style the cards here (not everything). Get the CSS from the Unit 1 project.

Generate the cards using **@for**. Add the **click** event to the delete button and remove the event from the array when that happens.

You don't need to format the date or price (yet). We'll do it in the next exercise.

## Transform the image to Base64

The concept is the same as in plain JavaScript, but the events now are handled differently. The HTML for the file input will look like this:

```
<div class="mb-4">
  <label for="image">Image</label>
  <input ... ngModel #fileImage (change)="changeImage(fileImage)">
</div>
```

This would be the component's method:

```
changeImage(fileInput: HTMLInputElement) {
  if (!fileInput.files || fileInput.files.length === 0) { return; }
  const reader: FileReader = new FileReader();
  reader.readAsDataURL(fileInput.files[0]);
  reader.addEventListener('loadend', () => {
    this.newEvent.image = reader.result as string;
  });
}
```

## Submitting the form

To capture the submit event use the **ngSubmit** event. Also, remove the action attribute from the form element.

When submitting the form all you have to do is add a copy of the newEvent object to the array of events. Also, after adding the event, reset the form.

## Recommendations and tips

- You can remove some id attributes from the original HTML. Just don't remove the ids on the input elements (the label elements are binded to those elements by using the id)

- You don't need to validate the form (that's something we'll learn in the future to do with Angular). You can omit any error messages.
- You'll need to include Angular's **FormsModule** in your events-page Component or directives like **[(ngModel)]**, or **ngSubmit** event won't work!
- When using **[(ngModel)]** inside a `<form>` element, the element **must have a name property** (we'll learn more about forms in the future).
- Instead of the class **d-none** (display: none) to hide the form's image, you can simply use **@if**.
- **Important:** Before uploading the project, delete the directories **node\_modules** and **.angular** (Angular uses this for compilation cache). If there's a **dist** directory, also delete it.

SVTickets

Title

Enter title

Date

dd/mm/aaaa

Description


Price (in €)

Image

Seleccionar archivo

Ningún archivo seleccionado


Create



Test event

Come to my secret cave  
We'll have fun

2222-02-2223 €



See the flowers

They're pretty

2025-02-12100 €