

Repo: <https://github.com/Irvin-Solis/CSEE-5590/tree/main/Source/Lesson5>

In ICP 5, we learned about the Angular framework and Typescript. For the first part of the ICP, we were to create a TODO list using the angular framework. To tackle this task, I created a bit of HTML to form how an Item would look on the UI. I accomplished this using bootstrap and CSS. I then used typescript to show the functionality of an Item. I created an Item class and exported that into my main app.component.ts, That way I could create Items and delete Items. I then used some angular to create a function to iterate thru my items and update the HTML with the required tags. I then tackled the completing and Item and deleting an Item. With completing, the Item class holds a bool to represent if it's completed. I created a function to check on the status of the bool and CSS to change depending on the status of it. I also added an onclick function to change the status of the bool, and in doing so update the UI with it. With Deleting, I filter the Item array using the index of the Item and delete the corresponding item. On Adding an Item I created an Input Form to let users name the Item and add it to the list. I Just created another Item Object and added it to the array. The UI would update accordingly.

For the 2nd Part, creating a timer was a bit easier. I created another component and named it timer. With the functionality, I created a Date Object for the date the user inputs and a date object to represent the time right now. I then did some math to figure out the difference and set an interval function to update the difference as time goes on. A variable is updates as well and that is what is being presented.

# TO DO LIST FOR 2018

Add Item

0

First



1

Second



2

4th



3

~~23923~~



0d 1h 8min 13sec

02/20/2022

Set Timer

```

11 // define list of items
12 title = 'TO DO LIST FOR 2018'
13 inputItem = ""
14 items: Item[];
15
16 constructor() { }
17
18 ngOnInit() {
19     this.items = [
20         {
21             content: 'First',
22             completed: false
23         },
24         {
25             content: 'Second',
26             completed: true
27         },
28     ]
29 }
30
31 // Write code to push new item
32 submitNewItem() {
33     this.items.push({
34         content: this.inputItem,
35         completed: false
36     });
37
38     this.inputItem = ""
39 }
40
41 // Write code to complete item
42 completeItem(id) {
43     this.items.map((v, i) =>{
44         if (i == id) v.completed = !v.completed;
45
46         return v;
47     })
48 }
49
50 // Write code to delete item
51 deleteItem(id) {
52     this.items = this.items.filter((v, i) => i != id);
53 }
54

```

```

13 <div class="main-title">
14 | <h1>{{title}}</h1>
15 </div>
16 <div class="box">
17 | <div class="container">
18 | | <div class="row">
19 | | | <div class="col-12">
20 | | | | <form (submit)="submitNewItem()">
21 | | | | | <input
22 | | | | | type="text"
23 | | | | | name="input"
24 | | | | | placeholder="Enter item..."
25 | | | | | class="item-input"
26 | | | | | [(ngModel)]="inputItem"
27 | | | | | />
28 | | | | | <input type="submit" value="Add Item" class="item-submit" >
29 | | | | </form>
30 | | | </div>
31 | | </div>
32 | <div class="items" *ngFor="let item of items; let i = index;">
33 | | <div class="row rectangle">
34 | | | <div class="col-1 number circle {{(item.completed ? 'c-done' : '')}}">
35 | | | | <h2>{{ i }}</h2>
36 | | | </div>
37 | | | <div class="col-4 title {{(item.completed ? 'done' : '')}} (click)="completeItem(i)">
38 | | | | <h2>{{ item.content }}</h2>
39 | | | </div>
40 | | | <div class="col-1 delete" (click)="deleteItem(i)">
41 | | | | <svg xmlns="http://www.w3.org/2000/svg" width="30" height="50" fill="black" class="bi bi-trash" viewBox="0 0 16 16">
42 | | | | | <path d="M5.5 5.5A5.5 0 0 1 6 6v6a5.5 0 0 1-1 0V6a5.5 0 0 1-.5-.5zm2.5 0a5.5 0 0 1 .5.5v6a5.5 0 0 1-1 0V6a5.5 0 0 1-.5-.5" />
43 | | | | | <path fill-rule="evenodd" d="M14.5 3a1 0 0 1-1 1H13v9a2 2 0 0 1-2 2H5a2 2 0 0 1-2 2V4h-.5a1 0 0 1-1-1V2a1 0 0 1 1-1" />
44 | | | | </svg>
45 | | | </div>
46 | | </div>
47 | </div>
48 </app-timer></app-timer>
49 </div>
50 </div>
51 </body>

```