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GitHub Link :

https://github.com/KavyaPara/Web_Development_Course/tree/main/Web-Development/ICP5

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Angular

Angular is a front-end framework and is based on TypeScript. Angular components are considered as a basic blocks for Angular Framework. There components are organized into Modules.

To-Do List:

Tasks:

1. In to-do list task, we took the input i.e., the list of to-do items from user using the input method and displayed the items by using two way data binding ng model.
2. For adding the new item in a list we have created a function and called that function whenever the user clicks the submit button. In that function adds the new item in array by using the push method in JavaScript.
3. By using the ngFor we are iterating the items array and display all the items in the array.

4. For complete item function, by using the current index we are adding the class completed by using ngclass provided by the Angular.
5. For deleting an item, we have created a delete function which gets called whenever the user clicks on the delete icon. The function takes the current index as a parameter and deletes the item from array by using the splice() method.

Count Down Timer:

Whenever the user selects a date by using ngmodel change and two way data binding, a function named Countdown() gets called. In this function by using JavaScript date object we are calculating the present date, final date and also finding the difference between these two dates and displaying them.

Code:

```
<!-- To DO List Wrapper Starts Here -->
<div class="container">
  <h1 class="text-center text-white mt-3">TO DO LIST FOR 2022</h1>
  <div class="todo-list">
    <div class="todo-list__head">
      <input type="text" [(ngModel)]="newItem" class="todo-list-head__text-input">
      <button type="submit" class="toto-list-head__submit border-0 bg-success" (click)="submitNewItem()">
        Submit
      </button>
    </div>
    <ul class="todo-list__items">
      <li *ngFor="let item of items;index as i" (click)="completeItem(i)" [class.completed]="i === strike">
        <span>{{i+1}}</span>
        {{item}}
        <i class="material-icons todo-list-item__trash" (click)="deleteItem(i)">delete</i>
      </li>
    </ul>
  </div>
</div>

<!-- To DO List Wrapper Ends Here -->
```

```

<!-- Countdown Wrapper Starts Here -->

<input type="date" class="d-block m-auto mb-2" [(ngModel)]="presentDate" (ngModelChange)="CountDown($event)"

<div class="countdown card bg-success text-center p-3 pb-0 mt-3">
  <h3>Test</h3>
  <div class="row mt-3">
    <div class="col-3">
      <p>{{days}}</p>
      <p>Days</p>
    </div>
    <div class="col-3">
      <p>{{hours}}</p>
      <p>Hours</p>
    </div>
    <div class="col-3">
      <p>{{minutes}}</p>
      <p>Minutes</p>
    </div>
    <div class="col-3">
      <p>{{seconds}}</p>
      <p>Seconds</p>
    </div>
  </div>
  <p class="card-footer mb-0">
    {{ months[month] + ' ' + day + ', ' + year }}
  </p>
</div>
<!-- Countdown Wrapper Ends Here -->

```

```

// define list of items
items = []
newItem:string;
strike;

// Write code to push new item
submitNewItem() {
  this.items.push(this.newItem);
  this.newItem = '';
}

// Write code to complete item
completeItem(i) {
  this.strike = i;
}

// Write code to delete item
deleteItem(i) {
  this.items.splice(i,1);
}

```

```
// Count Down
CountDown(event) {
  this.presentDate = new Date();
  this.finalDate = new Date(event);
  this.pDateMillisecs = this.presentDate.getTime();
  this.fDateMillisecs = this.finalDate.getTime();
  this.diff = this.fDateMillisecs - this.pDateMillisecs;
  this.seconds = Math.floor(this.diff / 1000);
  this.minutes = Math.floor(this.seconds / 60);
  this.hours = Math.floor(this.minutes / 60);
  this.days = Math.floor(this.hours / 24);
  this.hours = this.hours%24;
  this.minutes =this.minutes%60;
  this.seconds = this.seconds%60;
  this.hours = this.hours < 10 ? '0' + this.hours : this.hours;
  this.minutes = this.minutes < 10 ? '0' + this.minutes : this.minutes;
  this.seconds = this.seconds < 10 ? '0' + this.seconds : this.seconds;
  setInterval(this.CountDown, 1000);
}
}
```

(property) AppComponent.hours: any

Results:

TO DO LIST FOR 2022

Submit

1 Item1
✕

2 Item2
✕

3 Item3
✕

4 Item4
✕

5 item5
✕

6 Item6
✕

7 Item7
✕

📅

Test

150	18	24	28
Days	Hours	Minutes	Seconds

July 20, 2022