Ex. No: 4	Angular based Ann anastion
09.08.2023	Angular based App creation

#### Aim:

To Create an App using ANGULAR with Components, Binding, and Services usage.

## Algorithm:

- 1. Setup angular using the ng serve command
- 2. Create all the required components.
- 3. Organize the app structure.
- 4. Implement the services that are needed.
- 5. Define component HTML templates with data binding to display dynamic content
- 6. Enable component communication using input/output properties and event binding.
- 7. Apply CSS styles to components, optimize for performance, and deploy the app.

## Program:

# **Component code:**

```
import { Component, Input, Output, EventEmitter } from "@angular/core";
import { Item } from "../item";
@Component({
 selector: 'app-item',
 templateUrl: './item.component.html',
 styleUrls: ['./item.component.css'],
})
export class ItemComponent {
 editable = false;
 @Input() item!: Item;
 @Output() remove = new EventEmitter<Item>();
 saveItem(description: string) {
  if (!description) return;
  this.editable = false;
  this.item.description = description;
}
}
```

#### Service code:

import { NgModule } from '@angular/core';

```
import { BrowserModule } from '@angular/platform-browser';
import { AppComponent } from './app.component';
import { ItemComponent } from './item/item.component';
@NgModule({
 declarations: [
  AppComponent,
  ItemComponent
 ],
 imports: [
  BrowserModule
 ],
 providers: [],
 bootstrap: [AppComponent]
export class AppModule { }
app.component.ts:
import { Component } from "@angular/core";
import { Item } from "./item";
@Component({
 selector: 'app-root',
 templateUrl: './app.component.html',
 styleUrls: ['./app.component.css']
})
export class AppComponent {
 title = "todo";
 filter: "all" | "done" = "all";
 allItems = [
  { description: "eat", done: true },
  { description: "sleep", done: false },
  { description: "play", done: false },
  { description: "laugh", done: false },
 ];
 get items() {
  if (this.filter === "all") {
   return this.allItems;
  }
  return this.allItems.filter((item) =>
   this.filter === "done"?item.done:!item.done
```

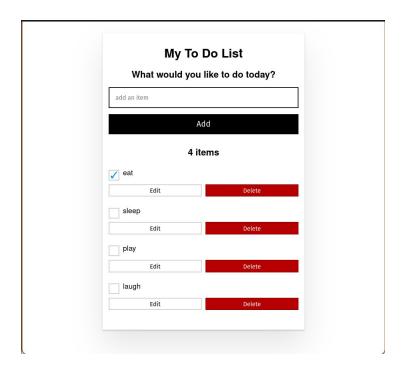
```
);
}
addItem(description: string) {
  this.allItems.unshift({
   description,
   done: false
  });
}
remove(item: Item) {
  this.allItems.splice(this.allItems.indexOf(item), 1);
}
```

## **Component html code:**

```
<div class="main">
 <h1>My To Do List</h1>
 <label for="addItemInput">What would you like to do today?</label>
 <input
 #newItem
 placeholder="add an item"
 (keyup.enter)="addItem(newItem.value); newItem.value = ""
 class="lg-text-input"
 id="addItemInput" />
 <button class="btn-primary" (click)="addItem(newItem.value)">Add</button>
 <h2>
  {{items.length}}
  <span *nglf="items.length === 1; else elseBlock">item</span>
  <ng-template #elseBlock>items</ng-template>
 </h2>
 *ngFor="let i of items">
   <app-item (remove)="remove(i)" [item]="i"></app-item>
  </div>
```

### **Output:**

Github Link: https://github.com/AsHtrich/Web\_tech2023



# **Result:**

Therefore, we've successfully created a simple react app.