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|-------------------|-----------------------------------|
| <b>Ex. No: 4</b>  | <b>Angular based App creation</b> |
| <b>09.08.2023</b> |                                   |

**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 *ngIf="items.length === 1; else elseBlock">item</span>
    <ng-template #elseBlock>items</ng-template>
  </h2>

  <ul>
    <li *ngFor="let i of items">
      <app-item (remove)="remove(i)" [item]="i"></app-item>
    </li>
  </ul>

</div>

```

### Output:

Github Link: [https://github.com/AsHtrich/Web\\_tech2023](https://github.com/AsHtrich/Web_tech2023)

# My To Do List

## What would you like to do today?

Add

4 items

☒ eat

Edit

Delete

☐ sleep

Edit

Delete

☐ play

Edit

Delete

☐ laugh

Edit

Delete

**Result:**

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