Scripting Language

Git Hub link:- **https://github.com/rr412/Todo-app-**

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Todo-create.component.html

```html
<mat-card class="new_entry_form">
    <mat-form-field appearance="outline">
        <mat-label>Title</mat-label>
        <input matInput [(ngModel)]="newtitle">
    </mat-form-field>

    <mat-form-field appearance="outline">
        <mat-label>Date</mat-label>
        <input matInput [(ngModel)]="newdate" type="date">
    </mat-form-field>

    <mat-form-field appearance="outline">
        <mat-label>Description</mat-label>
        <input matInput [(ngModel)]="newdesc">
    </mat-form-field>
    <br />
    <button mat-raised-button color="primary" (click)="add_todo()">ADD ENTRY</button>
</mat-card>
```

Todo-create.component.ts

```ts
TS todo-create.component.ts ✕

src > app > todo-create > TS todo-create.component.ts > ...
  1    import { Component, OnInit } from '@angular/core';
  2    import { ListDataService } from '../todo-data.service';
  3    import { TodoEntry } from '../todo';
  4
  5    @Component({
  6      selector: 'app-todo-create',
  7      templateUrl: './todo-create.component.html',
  8      styleUrls: ['./todo-create.component.css']
  9    })
 10    export class TodoCreateComponent implements OnInit {
 11
 12      newtitle = ''
 13      newdate  = ''
 14      newdesc  = ''
 15
 16      ngOnInit() {}
 17      constructor(
 18        private liService: ListDataService // inject service
 19      ) {}
 20
 21      public add_todo(): void {
 22        this.liService.put(new TodoEntry(this.newtitle, this.newdate, this.newdesc));
 23      }
 24    }
 25
```

Todo-details.component.html

```html
<> todo-details.component.html ✕

src > app > todo-details > <> todo-details.component.html > ⬡ table.mat-elevation-z8
  1    <table mat-table [dataSource]="table_data_source" class="mat-elevation-z8" *ngIf="table_data_source.data.length > 0">
  2      <ng-container matColumnDef="ID">
  3        <th mat-header-cell *matHeaderCellDef> ID </th>
  4        <td mat-cell *matCellDef="let entry; let i = index;"> {{i}} </td>
  5      </ng-container>
  6
  7      <ng-container matColumnDef="Name">
  8        <th mat-header-cell *matHeaderCellDef> Title </th>
  9        <td mat-cell *matCellDef="let entry"> {{entry.title}} </td>
 10      </ng-container>
 11
 12      <ng-container matColumnDef="Date">
 13        <th mat-header-cell *matHeaderCellDef> Date </th>
 14        <td mat-cell *matCellDef="let entry"> {{entry.date}} </td>
 15      </ng-container>
 16
 17      <ng-container matColumnDef="Description">
 18        <th mat-header-cell *matHeaderCellDef> Description </th>
 19        <td mat-cell *matCellDef="let entry"> {{entry.desc}} </td>
 20      </ng-container>
 21
 22      <ng-container matColumnDef="Delete">
 23        <th mat-header-cell *matHeaderCellDef></th>
 24        <td mat-cell *matCellDef="let entry; let i = index;">
 25          <button class="delete_button" mat-icon-button color="warn" (click)="liService.remove(i)">
 26            <mat-icon>delete</mat-icon>
 27          </button>
 28        </td>
 29      </ng-container>
 30
 31      <tr mat-header-row *matHeaderRowDef="col_headers"></tr>
 32      <tr mat-row *matRowDef="let row; columns: col_headers;"></tr>
 33    </table>
```

Todo-details.component.ts

```ts
TS todo-details.component.ts ×

src > app > todo-details > TS todo-details.component.ts > ⑂ TodoDetailsComponent
  1   import { Component, OnInit } from '@angular/core';
  2   import { TodoEntry } from '../todo';
  3   import { ListDataService } from '../todo-data.service';
  4   import { MatTableDataSource } from '@angular/material/table';
  5
  6   @Component({
  7     selector: 'app-todo-details',
  8     templateUrl: './todo-details.component.html',
  9     styleUrls: ['./todo-details.component.css']
 10   })
 11
 12   export class TodoDetailsComponent implements OnInit {
 13     public subscription;
 14     todo_list : TodoEntry[];
 15     table_data_source: MatTableDataSource<TodoEntry>;
 16     col_headers = ['ID', 'Name', 'Date', 'Description', 'Delete'];
 17
 18     constructor(
 19       private liService: ListDataService // inject service
 20     ) {}
 21
 22     ngOnDestroy(): void {
 23       this.subscription.unsubscribe(); // onDestroy cancels the subscribe request
 24     }
 25
 26     ngOnInit(): void {
 27       this.subscription = this.liService.get().subscribe(msg => {
 28         this.todo_list = msg;
 29         this.table_data_source.data = this.todo_list;
 30       });
 31       this.table_data_source = new MatTableDataSource<TodoEntry>(this.todo_list);
 32     }
 33
 34     public delete_todo(i: number): void {
 35       this.liService.remove(i);
 36     }
 37   }
```

Todo-list.component.html

```html
<> todo-list.component.html ×

src > app > todo-list > <> todo-list.component.html > ⬡ mat-expansion-panel
  1   <mat-expansion-panel *ngIf="todo_list.length > 0">
  2       <mat-expansion-panel-header>
  3           <mat-panel-title>
  4               List of Todos
  5           </mat-panel-title>
  6           <mat-panel-description>
  7               Click to Expand
  8           </mat-panel-description>
  9       </mat-expansion-panel-header>
 10
 11       <mat-list>
 12           <mat-list-item *ngFor="let entry of todo_list; let i = index"> {{ i }}. {{ entry.title }} </mat-list-item>
 13       </mat-list>
 14   </mat-expansion-panel>
```

Todo-list.component.ts

```ts
TS todo-list.component.ts ✕

src > app > todo-list > TS todo-list.component.ts > ⚡ TodoListComponent
  1   import { Component, OnInit } from '@angular/core';
  2   import { TodoEntry } from '../todo';
  3
  4   import { ListDataService } from '../todo-data.service'
  5
  6   @Component({
  7     selector: 'app-todo-list',
  8     templateUrl: './todo-list.component.html',
  9     styleUrls: ['./todo-list.component.css']
 10   })
 11   export class TodoListComponent implements OnInit {
 12
 13     public subscription;
 14     todo_list : TodoEntry[];
 15
 16     constructor(
 17       private liService: ListDataService // inject service
 18     ) {}
 19
 20     ngOnDestroy(): void {
 21       this.subscription.unsubscribe(); // onDestroy cancels the subscribe request
 22     }
 23
 24     ngOnInit(): void {
 25       this.subscription = this.liService.get().subscribe(msg => this.todo_list = msg);
 26     }
 27
 28     public delete_todo(i: number): void {
 29       this.liService.remove(i);
 30     }
 31   }
```

Todo-data.service.ts

```typescript
import { Injectable } from '@angular/core';
import { throws } from 'assert';
import { Subject, Observable } from 'rxjs';
import { TodoEntry } from './todo';

@Injectable({
  providedIn: 'root'
})

export class ListDataService {
  private todoListInternal :TodoEntry[] = [];
  private todoList = new Subject<TodoEntry[]>();

  constructor() { }

  public get(): Observable<TodoEntry[]> {
    return this.todoList.asObservable();
  }

  public put(value: TodoEntry): void {
    this.todoListInternal.push(value);
    this.todoList.next(this.todoListInternal);
  }

  public clear(): void {
    this.todoListInternal = [];
    this.todoList.next(this.todoListInternal);
  }

  public remove(i: number): void {
    this.todoListInternal.splice(i, 1);
    this.todoList.next(this.todoListInternal)
  }
}
```

App.component.html

```
<> app.component.html  ✕

src > app > <> app.component.html > ⬡ app-todo-details
   1    <app-todo-title>
   2    </app-todo-title>
   3    <app-todo-create>
   4    </app-todo-create>
   5    <app-todo-list>
   6    </app-todo-list>
   7    <app-todo-details>
   8    </app-todo-details>
```

Screenshot

Another Day at Application Development

What are your plans

Add More?

Task Details

Task	Commands	Deadline
Create a new Angular App Called Todo	ng new Todo-app	2 hours
Serve that app	ng serve	1 hours
Create a component called todo	ng g c todo	1 hours
Within the todo create todo-header, todo-list, todo-input, todo-footer	ng new Todo-app/cname	5 hours
Add angular services	many	10 hours

List of tasks

- Create a new Angular App Called Todo
- Serve that app
- Create a component called todo
- Within the todo create todo-header, todo-list, todo-input, todo-footer
- Add angular services

We have enlisted 5 tasks for today