

Angular App

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W13

1. Install Angular CLI

`npm install -g @angular/cli@latest`

To Create Angular 2 Application Angular CLI is required

2. Create New Angular Project :

`ng new user-registration-app`

OR

`npx @angular/cli new my-app`

- Choose Yes for routing
- Choose CSS for styling

3. Generate Components :

`cd user-registration-app`

`ng generate component components/login`

`ng generate component components/register`

`ng generate component components/profile`

3. Create User Interface :

```
``typescript
export interface User {
  id?: number;
  name: string;
  email: string;
  password: string;
  phone: string;
  age: number;
  gender: string;
  disability: boolean;
}
...
```

4. Create Auth Service :

```
ng generate service services/auth
```

5. Configure Routes :

```
import { Routes } from '@angular/router';
import { LoginComponent } from './components/login/login.component';
import { RegisterComponent } from './components/register/register.component';
import { ProfileComponent } from './components/profile/profile.component';

export const routes: Routes = [
  { path: '', redirectTo: '/login', pathMatch: 'full' },
  { path: 'login', component: LoginComponent },
  { path: 'register', component: RegisterComponent },
  { path: 'profile', component: ProfileComponent }
];
```

4. Run

```
ng serve
```

W12

1. `npm install -g @angular/cli`
2. `ng new todo-app --standalone`
3. `cd todo-app`
4. Edit code in `app.component.html`

```
<div class="container">
  <h1>To-Do List</h1>

  <div class="form-group d-flex">
    <input
      [(ngModel)]="newTask"
      type="text"
      class="form-control"
      placeholder="Enter your task"
    />
    <button
      class="btn btn-primary ms-2"
      (click)="editIndex === null ? addTask() : updateTask()"
    >
      {{ editIndex === null ? 'Add' : 'Update' }}
    </button>
  </div>
```

```

<ul class="list-group mt-4">
  <li
    class="list-group-item d-flex justify-content-between
align-items-center"
    *ngFor="let task of tasks; index as i"
  >
    {{ task }}

    <div>
      <button class="btn btn-sm btn-warning me-2"
(click)="editTask(i)">Edit</button>
      <button class="btn btn-sm btn-danger ms-2"
(click)="deleteTask(i)">Delete</button>
    </div>
  </li>
</ul>
</div>

```

5. Edit Code in app.component.css

```

.container {
  max-width: 600px;
  margin: 50px auto;
  padding: 20px;
}

.form-group {
  display: flex;
  align-items: center;
}

.form-control {
  width: 85%;
  padding: 10px;
}

button {
  width: auto;
  padding: 8px 15px; /* Smaller height for button */
  font-size: 14px;
  min-width: 100px;
}

```

```

button.ms-2 {
  margin-left: 10px;
}

.list-group-item {
  display: flex;
  justify-content: space-between;
  align-items: center;
  margin-bottom: 10px; /* Add vertical space between tasks */
}

.btn-sm {
  font-size: 12px;
  padding: 5px 10px;
}

.btn-sm.ms-2 {
  margin-left: 10px; /* Add gap between Edit and Delete buttons */
}

```

6. Edit code in app.component.ts

```

import { Component, OnInit } from '@angular/core';
import { FormsModule } from '@angular/forms';
import { CommonModule } from '@angular/common';

@Component({
  selector: 'app-root',
  standalone: true,
  imports: [CommonModule, FormsModule],
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})
export class AppComponent implements OnInit {
  newTask: string = '';
  tasks: string[] = [];
  editIndex: number | null = null;

  ngOnInit() {
    if(typeof window !== 'undefined' && localStorage) {
      const storedTasks = localStorage.getItem('tasks');
      if(storedTasks) {

```

```

        this.tasks = JSON.parse(storedTasks);
    }
}

saveTasks() {
    if(typeof window !== 'undefined' && localStorage){
        localStorage.setItem('tasks',JSON.stringify(this.tasks));
    }
}

addTask() {
    if(this,this.newTask.trim() !== ''){
        this.tasks.push(this.newTask.trim());
        this.saveTasks();
        this.newTask='';
    }
}

editTask(index:number) {
    this.newTask = this.tasks[index];
    this.editIndex = index;
}

updateTask() {
    if(this.editIndex !== null && this.newTask.trim() !== ''){
        this.tasks[this.editIndex] = this.newTask.trim();
        this.saveTasks();
        this.editIndex = null;
        this.newTask = '';
    }
}

deleteTask(index:number) {
    this.tasks.splice(index,1);
    this.saveTasks();
    if(this.editIndex === index){
        this.editIndex = null;
        this.newTask = '';
    }
}
}

```

7. Run using
ng serve