

Sourcecode: - Event management App

1)add-employee.component.css

```
.container {
  max-width: 600px;
  margin: 0 auto;
  padding: 20px;
}

h2 {
  margin-bottom: 20px;
}

.form-group {
  margin-bottom: 20px;
}

label {
  display: block;
  font-weight: bold;
}

input[type="text"],
input[type="email"] {
  width: 100%;
  padding: 8px;
  font-size: 16px;
  border: 1px solid #ccc;
  border-radius: 4px;
}

button[type="submit"],
button[type="button"] {
  padding: 10px 20px;
  font-size: 16px;
  border: none;
  border-radius: 4px;
  cursor: pointer;
  margin-right: 10px; /* Add space between buttons */
}

.btn-primary {
  background-color: #007bff;
  color: #fff;
}

.btn-secondary {
  background-color: #6c757d;
  color: #fff;
}
```

```

.btn-primary:hover,
.btn-secondary:hover {
  opacity: 0.8;
}

```

2)add-employee.component.html

```

<div class="container">
  <h2>Add Employee</h2>

  <form (ngSubmit)="onSubmit()">
    <div class="form-group">
      <label for="first_name">First Name</label>
      <input type="text" class="form-control" id="first_name"
[(ngModel)]="newEmployee.first_name" name="first_name" required>
    </div>

    <div class="form-group">
      <label for="last_name">Last Name</label>
      <input type="text" class="form-control" id="last_name"
[(ngModel)]="newEmployee.last_name" name="last_name" required>
    </div>

    <div class="form-group">
      <label for="email">Email</label>
      <input type="email" class="form-control" id="email"
[(ngModel)]="newEmployee.email" name="email" required>
    </div>

    <button type="submit" class="btn btn-primary">Submit</button>
    <button type="button" class="btn btn-secondary"
(click)="goHome()">Back</button>
  </form>
</div>

```

3)add-employee.component.spec.ts

```

<div class="container">
  <h2>Add Employee</h2>

  <form (ngSubmit)="onSubmit()">
    <div class="form-group">
      <label for="first_name">First Name</label>
      <input type="text" class="form-control" id="first_name"
[(ngModel)]="newEmployee.first_name" name="first_name" required>
    </div>

    <div class="form-group">
      <label for="last_name">Last Name</label>
      <input type="text" class="form-control" id="last_name"
[(ngModel)]="newEmployee.last_name" name="last_name" required>
    </div>

```

```

        <div class="form-group">
            <label for="email">Email</label>
            <input type="email" class="form-control" id="email"
[(ngModel)]="newEmployee.email" name="email" required>
        </div>

        <button type="submit" class="btn btn-primary">Submit</button>
        <button type="button" class="btn btn-secondary"
(click)="goHome()">Back</button>
    </form>
</div>

```

4)add-employee.component.ts

```

import { Component } from '@angular/core';
import { HttpClient } from '@angular/common/http';

@Component({
  selector: 'app-add-employee',
  templateUrl: './add-employee.component.html',
  styleUrls: ['./add-employee.component.css']
})
export class AddEmployeeComponent {
  newEmployee: any = {
    first_name: '',
    last_name: '',
    email: ''
  };
  router: any;

  constructor(private http: HttpClient) {}

  onSubmit() {
    this.addEmployee();
  }

  goHome() {
    window.location.href = "/employees";
  }

  private addEmployee() {
    this.http.post('http://localhost:3000/employees', this.newEmployee)
      .subscribe(
        () => {
          this.newEmployee = {}; // Clear the form
          console.log('Employee added successfully');

          alert('New Employee Added successfully');

          // Redirect to home page
          this.router.navigate(['/employees']);
        }
      );
  }
}

```

```

        // You can perform additional actions such as showing a success
        message or navigating to another page
    },
    error => {
        console.error('Error adding employee:', error);
        // You can handle the error here, such as displaying an error
        message to the user
    }
    );
}
}
}

```

5)employee-details.component.css

```

.container {
    max-width: 600px;
    margin: 0 auto;
    padding: 20px;
}

h4 {
    font-size: 20px;
    margin-bottom: 20px;
}

table {
    width: 100%;
    border-collapse: collapse;
    margin-bottom: 20px;
}

th, td {
    padding: 8px;
    border: 1px solid #ccc;
}

th {
    background-color: #f2f2f2;
    font-weight: bold;
}

.btn {
    margin-right: 10px;
}

```

6)employee-details.component.html

```

<div class="container">
    <h4>Details of <strong>{{ employee?.first_name }} {{ employee?.last_name
}}</strong></h4>

    <div *ngIf="employee">
        <table class="table">

```

```

        <tr>
          <th>Employee ID</th>
          <td>{{ employee.id }}</td>
        </tr>
        <tr>
          <th>First Name</th>
          <td>{{ employee.first_name }}</td>
        </tr>
        <tr>
          <th>Last Name</th>
          <td>{{ employee.last_name }}</td>
        </tr>
        <tr>
          <th>Email</th>
          <td>{{ employee.email }}</td>
        </tr>
      </table>

      <button class="btn btn-primary" (click)="goHomePage()">Home</button>
      <button class="btn btn-primary"
(click)="updateEmployee(employee.id)">Update</button>
      <button class="btn btn-danger"
(click)="deleteEmployee(employee.id)">Delete</button>
    </div>

    <div *ngIf="!employee">
      <p>No employee details found.</p>
    </div>
  </div>

```

7)employee-details.component.spec.ts

```

<div class="container">
  <h4>Details of <strong>{{ employee?.first_name }} {{ employee?.last_name
}}</strong></h4>

  <div *ngIf="employee">
    <table class="table">
      <tr>
        <th>Employee ID</th>
        <td>{{ employee.id }}</td>
      </tr>
      <tr>
        <th>First Name</th>
        <td>{{ employee.first_name }}</td>
      </tr>
      <tr>
        <th>Last Name</th>
        <td>{{ employee.last_name }}</td>
      </tr>
      <tr>
        <th>Email</th>

```

```

        <td>{{ employee.email }}</td>
    </tr>
</table>

    <button class="btn btn-primary" (click)="goHomePage()">Home</button>
    <button class="btn btn-primary"
(click)="updateEmployee(employee.id)">Update</button>
    <button class="btn btn-danger"
(click)="deleteEmployee(employee.id)">Delete</button>
</div>

<div *ngIf="!employee">
    <p>No employee details found.</p>
</div>
</div>

```

8)employee-details.component.ts

```

import { Component, OnInit } from '@angular/core';
import { ActivatedRoute, Router } from '@angular/router';
import { HttpClient } from '@angular/common/http';

@Component({
  selector: 'app-employee-details',
  templateUrl: './employee-details.component.html',
  styleUrls: ['./employee-details.component.css']
})
export class EmployeeDetailsComponent implements OnInit {
  employee: any;

  constructor(
    private route: ActivatedRoute,
    private router: Router,
    private http: HttpClient
  ) {}

  ngOnInit() {
    this.route.params.subscribe(params => {
      const employeeId = params['id'];
      this.fetchEmployeeDetails(employeeId);
    });
  }

  fetchEmployeeDetails(employeeId: number) {
    this.http.get<any>(`http://localhost:3000/employees/${employeeId}`).subscribe(
      employee => {
        this.employee = employee;
      },
      error => {
        console.log('Error fetching employee details:', error);
      }
    );
  }
}

```

```

    );
  }

  goHomePage() {
    this.router.navigate(['/employees']);
  }

  updateEmployee(employeeId: number) {
    this.router.navigate(['/update', employeeId]);
  }

  deleteEmployee(employeeId: number) {
    // Send the HTTP DELETE request to delete the employee by their ID
    this.http.delete(`http://localhost:3000/employees/${employeeId}`)
      .subscribe(
        () => {
          // Employee deleted successfully
          console.log('Employee deleted successfully');

          // Show success message
          alert('Employee deleted successfully');

          // Redirect to home page
          this.router.navigate(['/employees']);
        },
        error => {
          // Error deleting employee
          console.error('Error deleting employee:', error);
          // Handle the error, such as displaying an error message to the user
        }
      );
  }
}

```

9)employee-management.component.css

```

.container {
  width: 100vw;
  height: 100vh;
  flex-direction: column;
  justify-content: left;
  align-items: start;
  padding: 20px;
}

nav {
  background-color: #333;
  padding: 10px;
  margin-bottom: 10px;
}

```

```
a {
  color: #fff;
  text-decoration: none;
}

a:hover {
  text-decoration: underline;
}

h2 {
  margin-bottom: 20px;
}

hr {
  margin: 20px 0;
}

h3 {
  margin-bottom: 10px;
}

.table {
  width: 100%;
  border-collapse: collapse;
}

.table th,
.table td {
  padding: 10px;
  border: 1px solid #ccc;
  text-align: left;
}

.table th {
  background-color: #f0f0f0;
  font-weight: bold;
}

.btn-primary {
  background-color: #007bff;
  color: #fff;
}

.btn-primary:hover {
  opacity: 0.8;
}

.btn-sm {
  padding: 6px 12px;
  font-size: 14px;
}
```



```
.btn-primary[disabled] {
  opacity: 0.6;
  cursor: not-allowed;
}
```

10)employee-management.component.html

[illegible]

11)employee-management.component.spec.ts

```
import { ComponentFixture, TestBed } from '@angular/core/testing';
```

```

import { EmployeeManagementComponent } from './employee-management.component';

describe('EmployeeManagementComponent', () => {
  let component: EmployeeManagementComponent;
  let fixture: ComponentFixture<EmployeeManagementComponent>;

  beforeEach(() => {
    TestBed.configureTestingModule({
      declarations: [EmployeeManagementComponent]
    });
    fixture = TestBed.createComponent(EmployeeManagementComponent);
    component = fixture.componentInstance;
    fixture.detectChanges();
  });

  it('should create', () => {
    expect(component).toBeTruthy();
  });
});

```

12)employee-management.component.ts

```

import { Component, OnInit } from '@angular/core';
import { HttpClient } from '@angular/common/http';

@Component({
  selector: 'app-employee-management',
  templateUrl: './employee-management.component.html',
  styleUrls: ['./employee-management.component.css']
})
export class EmployeeManagementComponent implements OnInit {
  employees: any[] = [];
  newEmployee: any = {};

  constructor(private http: HttpClient) { }

  ngOnInit() {
    this.fetchEmployees();
  }

  fetchEmployees() {
    this.http.get<any[]>('http://localhost:3000/employees').subscribe(
      employees => {
        this.employees = employees;
      },
      error => {
        console.log('Error fetching employees:', error);
      }
    );
  }
}

```

```

    addEmployee() {
      this.http.post('http://localhost:3000/employees',
this.newEmployee).subscribe(
      () => {
        this.newEmployee = {}; // Clear the form
        this.fetchEmployees(); // Refresh employee list
      },
      error => {
        console.log('Error adding employee:', error);
      }
    );
  }
  viewDetails(employee: any) {
    // Implement logic to view the details of the selected employee
    console.log('View details for employee:', employee);
    // You can show the employee details in a modal or navigate to a separate
    page for viewing the details
  }
}

```

13)login.component.css

```

.container {
  max-width: 600px;
  margin: 0 auto;
  padding: 20px;
}

h2 {
  margin-bottom: 20px;
}

.form-group {
  margin-bottom: 20px;
}

label {
  font-weight: bold;
}

input.form-control {
  width: 100%;
  padding: 8px;
  font-size: 16px;
  border: 1px solid #ccc;
  border-radius: 4px;
}

.alert {
  margin-top: 10px;
}

```

```

.btn-primary {
  background-color: #007bff;
  color: #fff;
}

.btn-primary:hover {
  opacity: 0.8;
}

```

14)login.component.html

```

<div class="container">
  <h2>Welcome to Event Management App</h2>
  <h4>login</h4>
  <form (ngSubmit)="login()">
    <div class="form-group">
      <label for="username">Username:</label>
      <input type="text" id="username" name="username" class="form-control"
[(ngModel)]="username" required>
    </div>
    <div class="form-group">
      <label for="password">Password:</label>
      <input type="password" id="password" name="password"
class="form-control" [(ngModel)]="password" required>
    </div>
    <div class="alert alert-danger" *ngIf="errorMessage">{{ errorMessage
}}</div>
    <button type="submit" class="btn btn-primary">Login</button>
  </form>
</div>

```

15)login.component.ts

```

import { Component } from '@angular/core';
import { Router } from '@angular/router';
import { HttpClient } from '@angular/common/http';

@Component({
  selector: 'app-login',
  templateUrl: './login.component.html',
  styleUrls: ['./login.component.css']
})
export class LoginComponent {
  username: string | undefined;
  password: string | undefined;
  errorMessage: string | undefined;

  constructor(private router: Router, private http: HttpClient) {}

  login() {
    // Perform login logic here
    // Example: Check username and password against a stored value
  }
}

```

```

    if (this.username === 'admin' && this.password === '123456') {
      // Navigate to the main employee management page
      this.router.navigate(['/employees']);
    } else {
      // Set error message
      this.errorMessage = 'Invalid username or password';
    }
  }
}
}

```

16)update-employee.component.css

```

.container {
  max-width: 600px;
  margin: 0 auto;
  padding: 20px;
}

h2 {
  margin-bottom: 20px;
}

.form-group {
  margin-bottom: 20px;
}

label {
  font-weight: bold;
}

input[type="text"],
input[type="email"] {
  width: 100%;
  padding: 8px;
  border: 1px solid #ccc;
  border-radius: 4px;
}

button {
  padding: 8px 16px;
  background-color: #007bff;
  color: #fff;
  border: none;
  border-radius: 4px;
  cursor: pointer;
}

button:hover {
  background-color: #0056b3;
}

button:disabled {

```

```

    opacity: 0.6;
    cursor: not-allowed;
}

```

17)update-employee.component.html

```

<div class="container">
  <h2>Update Employee</h2>
  <form>
    <div class="form-group">
      <label for="firstName">First Name</label>
      <input type="text" class="form-control" id="firstName"
[ngModel]="employee?.first_name" (ngModelChange)="employee.first_name =
$event" name="firstName">
    </div>
    <div class="form-group">
      <label for="lastName">Last Name</label>
      <input type="text" class="form-control" id="lastName"
[ngModel]="employee?.last_name" (ngModelChange)="employee.last_name = $event"
name="lastName">
    </div>
    <div class="form-group">
      <label for="email">Email</label>
      <input type="email" class="form-control" id="email"
[ngModel]="employee?.email" (ngModelChange)="employee.email = $event"
name="email">
    </div>
    <button class="btn btn-primary"
(click)="updateEmployee()">Update</button>
  </form>
</div>

```

18)update-employee.component.ts

```

import { Component, OnInit } from '@angular/core';
import { ActivatedRoute, Router } from '@angular/router';
import { HttpClient } from '@angular/common/http';

@Component({
  selector: 'app-update-employee',
  templateUrl: './update-employee.component.html',
  styleUrls: ['./update-employee.component.css']
})
export class UpdateEmployeeComponent implements OnInit {
  employeeId: number | undefined;
  employee: any;

  constructor(
    private route: ActivatedRoute,
    private router: Router,
    private http: HttpClient
  ) {}

```

```

ngOnInit() {
  this.route.params.subscribe(params => {
    this.employeeId = +params['id'];
    this.fetchEmployeeDetails();
  });
}

fetchEmployeeDetails() {

this.http.get<any>(`http://localhost:3000/employees/${this.employeeId}`).subscribe(
  employee => {
    this.employee = employee;
  },
  error => {
    console.log('Error fetching employee details:', error);
  }
);
}

updateEmployee() {
  if (!this.employee) {
    console.error('Employee data is not available.');
```

return;

```

  }

  const updatedEmployee = {
    first_name: this.employee.first_name,
    last_name: this.employee.last_name,
    email: this.employee.email
  };

  this.http.put(`http://localhost:3000/employees/${this.employeeId}`,
updatedEmployee)
    .subscribe(
      () => {
        console.log('Employee updated successfully');
        alert('Employee updated successfully');
        this.router.navigate(['/employees']);
      },
      error => {
        console.error('Error updating employee:', error);
      }
    );
}
}

```

19)app-routing.module.ts

```

import { NgModule } from '@angular/core';
import { Routes, RouterModule } from '@angular/router';
import { LoginComponent } from '../login/login.component';

```

```

import { EmployeeManagementComponent } from
'./employee-management/employee-management.component';
import { EmployeeDetailsComponent } from
'./employee-details/employee-details.component';
import { AddEmployeeComponent } from './add-employee/add-employee.component';
import { UpdateEmployeeComponent } from
'./update-employee/update-employee.component';

const routes: Routes = [
  { path: '', redirectTo: '/login', pathMatch: 'full' },
  { path: 'login', component: LoginComponent },
  { path: 'addEmployee', component: AddEmployeeComponent },
  { path: 'employees', component: EmployeeManagementComponent },
  { path: 'update/:id', component: UpdateEmployeeComponent },
  { path: 'employees/:id', component: EmployeeDetailsComponent },
  { path: '**', redirectTo: '/login' } // Redirect to login for any other
unknown routes
];

@NgModule({
  imports: [RouterModule.forRoot(routes)],
  exports: [RouterModule]
})
export class AppRoutingModule { }

```

20)app-component.html

```

<div class="container">
  <router-outlet></router-outlet>
</div>

```

21)app-component.spec.ts

```

import { TestBed } from '@angular/core/testing';
import { AppComponent } from './app.component';

describe('AppComponent', () => {
  beforeEach(() => TestBed.configureTestingModule({
    declarations: [AppComponent]
  }));

  it('should create the app', () => {
    const fixture = TestBed.createComponent(AppComponent);
    const app = fixture.componentInstance;
    expect(app).toBeTruthy();
  });

  it(`should have as title 'event-management-app'`, () => {
    const fixture = TestBed.createComponent(AppComponent);
    const app = fixture.componentInstance;
    expect(app.title).toEqual('event-management-app');
  });
});

```



```

    it('should render title', () => {
      const fixture = TestBed.createComponent(AppComponent);
      fixture.detectChanges();
      const compiled = fixture.nativeElement as HTMLElement;
      expect(compiled.querySelector('.content
span')?.textContent).toContain('event-management-app app is running!');
    });
  });
});

```

22)app-component.ts

```

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

@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})
export class AppComponent {
  title = 'event-management-app';
}

```

23)app-module.ts

```

import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { HttpClientModule } from '@angular/common/http';
import { FormsModule } from '@angular/forms';

import { AppRoutingModuleModule } from './app-routing.module';
import { AppComponent } from './app.component';
import { LoginComponent } from './login/login.component';
import { EmployeeManagementComponent } from
'./employee-management/employee-management.component';
import { EmployeeDetailsComponent } from
'./employee-details/employee-details.component';
import { AddEmployeeComponent } from './add-employee/add-employee.component';
import { UpdateEmployeeComponent } from
'./update-employee/update-employee.component';

@NgModule({
  declarations: [
    AppComponent,
    LoginComponent,
    EmployeeManagementComponent,
    EmployeeDetailsComponent,
    AddEmployeeComponent,
    UpdateEmployeeComponent
  ],
  imports: [
    BrowserModule,
    HttpClientModule,
    AppRoutingModuleModule,

```

```

        FormsModule
    ],
    providers: [],
    bootstrap: [AppComponent]
  })
  export class AppModule { }

```

24)index.html

```

<!doctype html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>EventManagerApp</title>
  <base href="/">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="icon" type="image/x-icon" href="favicon.ico">
</head>
<body>
  <app-root></app-root>
</body>
</html>

```

25)db.json

```

{
  "employees": [
    {
      "first_name": "Sebastian",
      "last_name": "Eschweiler",
      "email": "sebastian@codingthesmartway.com",
      "id": 1
    },
    {
      "id": 2,
      "first_name": "Steve",
      "last_name": "Palmer",
      "email": "steve@codingthesmartway.com"
    },
    {
      "first_name": "Ann",
      "last_name": "Smith",
      "email": "ann@codingthesmartway.com",
      "id": 3
    },
  ],
}

```