Here's a complete Angular 9 implementation for a UserDashboardComponent with child routes for Profile, Settings, and Order History using <router-outlet>.

The structure will look like this:

* app-routing.module.ts – Main routing configuration
* user-dashboard.component.ts – Parent component with child routes
* Child components: profile, settings, order-history
* Navigation for easy switching between child components

**Angular Code:**

* **Angular Version:** 9
* **Lazy Loading:** No
* **Routing:** Child routes with <router-outlet>

**Steps:**

1. Generate the necessary components:

bash

CopyEdit

ng g c user-dashboard

ng g c user-dashboard/profile

ng g c user-dashboard/settings

ng g c user-dashboard/order-history

1. Update the code as shown below.

**Code Implementation:**

// app-routing.module.ts

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

import { RouterModule, Routes } from '@angular/router';

import { UserDashboardComponent } from './user-dashboard/user-dashboard.component';

import { ProfileComponent } from './user-dashboard/profile/profile.component';

import { SettingsComponent } from './user-dashboard/settings/settings.component';

import { OrderHistoryComponent } from './user-dashboard/order-history/order-history.component';

const routes: Routes = [

{ path: '', redirectTo: 'dashboard', pathMatch: 'full' },

{

path: 'dashboard',

component: UserDashboardComponent,

children: [

{ path: 'profile', component: ProfileComponent },

{ path: 'settings', component: SettingsComponent },

{ path: 'order-history', component: OrderHistoryComponent }

]

}

];

@NgModule({

imports: [RouterModule.forRoot(routes)],

exports: [RouterModule]

})

export class AppRoutingModule { }

// user-dashboard.component.ts

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

@Component({

selector: 'app-user-dashboard',

template: `

<div class="dashboard-container">

<h2>User Dashboard</h2>

<nav>

<ul>

<li><a routerLink="profile">Profile</a></li>

<li><a routerLink="settings">Settings</a></li>

<li><a routerLink="order-history">Order History</a></li>

</ul>

</nav>

<router-outlet></router-outlet>

</div>

`,

styles: [

`.dashboard-container { padding: 20px; }

nav ul { list-style: none; padding: 0; }

nav ul li { display: inline; margin-right: 15px; }

nav a { text-decoration: none; color: blue; }

nav a:hover { text-decoration: underline; }`

]

})

export class UserDashboardComponent {}

// profile.component.ts

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

@Component({

selector: 'app-profile',

template: `<h3>Profile Component</h3>`

})

export class ProfileComponent {}

// settings.component.ts

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

@Component({

selector: 'app-settings',

template: `<h3>Settings Component</h3>`

})

export class SettingsComponent {}

// order-history.component.ts

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

@Component({

selector: 'app-order-history',

template: `<h3>Order History Component</h3>`

})

export class OrderHistoryComponent {}

// app.module.ts

import { BrowserModule } from '@angular/platform-browser';

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

import { AppRoutingModule } from './app-routing.module';

import { AppComponent } from './app.component';

import { UserDashboardComponent } from './user-dashboard/user-dashboard.component';

import { ProfileComponent } from './user-dashboard/profile/profile.component';

import { SettingsComponent } from './user-dashboard/settings/settings.component';

import { OrderHistoryComponent } from './user-dashboard/order-history/order-history.component';

@NgModule({

declarations: [

AppComponent,

UserDashboardComponent,

ProfileComponent,

SettingsComponent,

OrderHistoryComponent

],

imports: [

BrowserModule,

AppRoutingModule

],

providers: [],

bootstrap: [AppComponent]

})

export class AppModule {}

// app.component.html

<div class="app-container">

<router-outlet></router-outlet>

</div>

This code sets up a UserDashboardComponent with child routes for Profile, Settings, and Order History using <router-outlet> for navigation. Run ng serve to test the functionality. Let me know if you need any adjustments!