Project Structure

- 1. **Home Component**: This will be the landing page.
- 2. **Register Component**: This will contain the registration form.
- 3. **Login Component**: This will contain the login form.
- 4. **App Routing Module**: This will handle the routing between components.

Step-by-Step Solution

Step 1: Setting up the Angular Project

1. **Create a new Angular project**:

```bash ng new angular-form-routing

cd angular-form-routing

• • • •

```
2. **Install Angular Router** (If not already included):```bash ng add @angular/router
```

#### Step 2: Generating Components

Generate the Home, Register, and Login components:

"bash

ng generate component home

ng generate component register

ng generate component login

#### Step 3: Configuring Routing

Create a routing module `app-routing.module.ts` (if not automatically generated):

```
```typescript
import { NgModule } from '@angular/core';
import { RouterModule, Routes } from
'@angular/router';
import { HomeComponent } from
'./home/home.component';
import { RegisterComponent } from
'./register/register.component';
import { LoginComponent } from
'./login/login.component';
const routes: Routes = [
 { path: ", component: HomeComponent },
 { path: 'register', component: RegisterComponent },
 { path: 'login', component: LoginComponent }
];
@NgModule({
 imports: [RouterModule.forRoot(routes)],
 exports: [RouterModule]
})
```

```
export class AppRoutingModule { }
• • • •
Modify 'app.module.ts' to include the routing
module:
```typescript
import { NgModule } from '@angular/core';
import { BrowserModule } from
'@angular/platform-browser';
import { AppRoutingModule } from './app-
routing.module';
import { AppComponent } from './app.component';
import { HomeComponent } from
'./home/home.component';
import { RegisterComponent } from
'./register/register.component';
import { LoginComponent } from
'./login/login.component';
import { FormsModule } from '@angular/forms';
@NgModule({
```

```
declarations: [
 AppComponent,
 HomeComponent,
 RegisterComponent,
 LoginComponent
 imports: [
 BrowserModule,
 AppRoutingModule,
 FormsModule
],
 providers: [],
 bootstrap: [AppComponent]
})
export class AppModule { }
• • • •
Step 4: Creating HTML Forms
**Register Component Template
(`register.component.html`)**:
```

```
```html
<h2>Register</h2>
<form #registerForm="ngForm"</pre>
(ngSubmit)="onRegister(registerForm)">
 <div>
  <label for="username">Username:
  <input type="text" id="username"</pre>
name="username" ngModel required>
 </div>
 <div>
  <label for="email">Email:</label>
  <input type="email" id="email" name="email"
ngModel required>
 </div>
 <div>
  <label for="password">Password:</label>
  <input type="password" id="password"</pre>
name="password" ngModel required>
 </div>
```

```
<button type="submit"
[disabled]="registerForm.invalid">Register</button
>
</form>
**Register Component Class
('register.component.ts')**:
```typescript
import { Component } from '@angular/core';
@Component({
 selector: 'app-register',
 templateUrl: './register.component.html'
})
export class RegisterComponent {
 onRegister(form: any) {
 if (form.valid) {
 console.log('User Registration', form.value);
 }
```

```
**Login Component Template
(`login.component.html`)**:
```html
<h2>Login</h2>
<form #loginForm="ngForm"</pre>
(ngSubmit)="onLogin(loginForm)">
<div>
 <label for="username">Username:</label>
 <input type="text" id="username"</pre>
name="username" ngModel required>
</div>
<div>
 <label for="password">Password:</label>
 <input type="password" id="password"</pre>
name="password" ngModel required>
</div>
```

```
<button type="submit"
[disabled]="loginForm.invalid">Login</button>
</form>
• • • •
**Login Component Class (`login.component.ts`)**:
```typescript
import { Component } from '@angular/core';
@Component({
 selector: 'app-login',
 templateUrl: './login.component.html'
})
export class LoginComponent {
 onLogin(form: any) {
 if (form.valid) {
 console.log('User Login', form.value);
```

```
Step 5: Setting up the Home Component
**Home Component Template
('home.component.html')**:
```html
<h1>Welcome to the Angular Form and Routing
Project</h1>
<a routerLink="/register">Register</a> | <a</pre>
routerLink="/login">Login</a>
• • • •
#### Step 6: Adding Navigation
Modify the 'app.component.html' to include router-
outlet:
```html
<nav>
 Home |
```

```
Register |
 Login
</nav>
</nav-
<router-outlet></router-outlet>
...

Final Project Files

- **app-routing.module.ts**
- **app.module.ts**
- **home.component.html**
```

- \*\*home.component.ts\*\*

- \*\*register.component.html\*\*

- \*\*register.component.ts\*\*

- \*\*login.component.html\*\*

- \*\*login.component.ts\*\*

- \*\*app.component.ts\*\*

- \*\*app.component.html\*\*