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Emerging Web Technologies Assignment-II

Create a single page angular application consisting of 2 views/features: login & registration. Design login form using template-driven approach and registration page using reactive approach. Apply angular routing to navigate between views. List various CLI commands used and Sketch the project folder structure.

* Create a new project using the following CLI command.

     ng new my-app --routing --no-standalone.

* Create two new components i.e login & Reg using the following CLI command.

     ng g c login
     ng g c reg.

* app.component.html

```
<div class= "main">
   <div class= "container">
      <h1> Angular Routing </h1>
      <nav>
        <ul>
           <li> <a routerlink= "/login"> login </a></li>
           <li> <a routerlink="/reg"> Reg </a></li>
        </ul>
      </nav>
      <router-outlet> </router-outlet>
   </div>
</div>.
```

* app.component.ts

```
import {component} from '@angular/core';

@Component({
    selector: 'app-root',
    templateUrl: './app.component.html',
    styleUrl: './app.component.css'
})

export class AppComponent {

}
```

* login.component.html

```
<form #loginform="ngform" (ngSubmit) = "onSubmit(loginform)">
<div class="main">
    <div class="container">
        Email: <input type="text" name="t1" [(ngModel)]="userdata.email">
        <br>
        Password: <input type="text" [(ngModel)]="userdata.pwd">
        <input type="submit" value="submit">
    </div>
</div>
</form>
```

* login.component.ts

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

@Component({
    selector: 'app-login',
    templateUrl: './login.component.html',
    styleUrl: './login.component.css'
})
```

```
export class logincomponent {
    userdata = {
        email : "",
        pwd : ""
    }
    onsubmit (loginform : any)
    {   console.log ("Email" + this.userdata.email);
    }
}
```

* reg.component.html

```
<form [formGroup] = "regform" (submit)="onsubmit()">
    <div class="main">
        <div class="container">
            firstName: <input type="text" formControlName="fname"><br>
            lastName: <input type="text" formControlName="lname"><br>
            Gender: <input type="text" formControlName="gender"><br>
            Age: <input type="text" formControlName="age"><br>
            Email: <input type="text" formControlName="email"><br>
            dob: <input type="date" formControlName="date"><br>
            <input type="submit" value="submit"><br>
        </div>
    </div>
</form>.
```

* reg.component.ts

```
import {Component} from '@angular/core';
import { formControl, formGroup, formsModule} from
    '@angular/forms';

@component({
    selector : 'app-reg',
    templateUrl : './reg.component.html',
    styleUrl : './reg.component.css'
})
```

```typescript
export class Regcomponent {
  regform = new formGroup({
    fname : new formControl(),
    lname : new formControl(),
    gender : new formControl(),
    age : new formControl(),
    email : new formControl(),
    dob : new formControl()
  });

  onsubmit() {
    console.log(this.regform.value);
  }
}
```

* app-routing.module.ts

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

const routes: Routes = [
  {
    component: LoginComponent,
    path: 'login'
  },
  {
    component: Regcomponent,
    path: 'reg'
  }
];

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

* app.component.css , reg.component.css , login.component.css

```css
.container {
    display : flex;
    flex-direction : column;
    gap : 10px;
    padding : 10px;
    border : 3px solid black;
    border-radius : 20px;
}
.main {
    display : flex;
    justify-content : center;
    align-content : center;
}
```

app.module.ts

```typescript
import { NgModule } from '@angular/core';
import { BrowserModule, provideClientHydration } from
    '@angular/platform-browser';
import { RouterModule, Routes } from '@angular/router';
import { AppRoutingModule } from '@/app-routing.module';
import { AppComponent } from './app.component';
import { LoginComponent } from './App/login/login.component';
import { RegComponent } from './reg/reg.component';
import { FormsModule, ReactiveFormsModule } from
                                    '@angular/forms';

@NgModule({
    declaration: [
        AppComponent,
        LoginComponent,
        RegComponent
    ],
```

```
imports : [
    BrowserModule,
    AppRoutingmodule,
    RouterModule,
    formsModule,
    ReactiveformsModule ],
Providers : [
    provideClientHydration()
],
    bootstrap : [AppComponent]
})
export class AppModule{ }
```

Output :-

Angular Routing

• login
• reg

Angular Routing
• login
• reg

Email :

[   ]

Password :

[   ]

[Submit]

Angular Routing
• login
• reg

firstName : [   ]

lastName : [   ]

Gender : [   ]

Age : [   ]

Email : [   ]

dob : [dd-mm-yyyy 📅]

[Submit]

```
> my-app
    > .angular
    > .vscode
    > node_modules
    > src
        > app
            > login
                # login.component.css
                <> login.component.html
                TS login.component.spec.ts
                TS login.component.ts
            > reg
                # reg.component.css
                <> reg.component.html
                TS reg.component.spec.ts
                TS reg.component.ts

            TS app-routing.module.ts
            # app.component.css
            <> app.component.html
            TS app.component.spec.ts
            TS app.component.ts
            TS app.module.server.ts
            TS app.module.ts
```