**C:\Users\Soft\Desktop\pf\fetch\testLogin\src\app\login\login.component.ts**

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

import {AngularFireAuth} from '@angular/fire/auth';

import { Router } from '@angular/router';

import {auth} from 'firebase';

import { AngularFirestoreCollection, AngularFirestore } from '@angular/fire/firestore';

import { Observable } from 'rxjs';

interface User{

  fname:string,

  lname:string,

  age:string

}

@Component({

  selector: 'app-login',

  templateUrl: './login.component.html',

  styleUrls: ['./login.component.css']

})

export class LoginComponent implements OnInit {

  constructor(private auth: AngularFireAuth,

private route: Router,

private afs: AngularFirestore) { }

  username;

  password;

  UserCol:AngularFirestoreCollection<User>;

  user:Observable<User[]>

  ngOnInit(): void {}

  login(){ //This Function is called when creating user with email address.

    console.log(this.username);

    console.log(this.password);

    this.auth.signInWithEmailAndPassword(this.username,this.password)

    .then(()=> this.route.navigate(['home']))

    .catch((data)=>{console.log(data);alert(data.message)});

  }

  async googleSignin(){

    var provider = new auth.GoogleAuthProvider();

    this.auth.signInWithPopup(provider)

    .then((userdata)=>{ console.log(userdata);

     if(this.afs.doc(`users/${userdata.user.uid}`)){

    this.afs.doc(`users/${userdata.user.uid}`).set({'fname': userdata.user.displayName.split(" ")[0],'lname': userdata.user.displayName.split(" ")[1],'email': userdata.user.email,'age':userdata.user.uid,'pic':  userdata.user.photoURL});

    alert('User update Sucessfully!');

    }

    else {

      this.afs.collection(`users/${userdata.user.uid}`).add({'fname': userdata.user.displayName.split(" ")[0],'lname': userdata.user.displayName.split(" ")[1],'email': userdata.user.email,'age':userdata.user.uid,'pic':  userdata.user.photoURL});

      alert('User Created Sucessfully!');

    };

    this.route.navigate(["home"])})

    .catch((data)=>alert(data.message));

}

email(username){

  this.username=username.viewModel;

}

pass(password){

  this.password=password.viewModel;

}

}

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<div class="container">

    <form >

      <div class="row">

        <div class="col">

          <input id="username" type="text" name="username" placeholder="Username"  ngModel #username='ngModel' required (change)='email(username)'>

          <div \*ngIf='username.touched && !username.value' class="invalid-feedback d-block" >

         Email is required    </div>

          <input type="password" name="password" placeholder="Password"  id="password" ngModel #password='ngModel' required (change)='pass(password)'>

          <div \*ngIf='password.touched && !password.value' class="invalid-feedback d-block" >

            Password is required </div>

          <input type="submit" (click)='login()' value="Login">

          <a  (click)='googleSignin()' class="google btn"><i class="fa fa-google fa-fw">

        </i> Login with Google+ </a>

        </div>

      </div>

    </form>

  </div>

  <div class="bottom-container">

    <div class="row">

      <div class="col">

        <a href="register" style="color:white" class="btn">Sign up</a>

      </div>

      <div class="col">

        <a href="#" style="color:white" class="btn">Forgot password?</a>

      </div>

    </div>

  </div>