```typescript
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':u
serdata.user.uid,'pic':  userdata.user.photoURL});
    alert('User update Sucessfully!');
    }
    else {
```

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

```html
<div class="container">
    <form >
      <div class="row">
        <div class="col">
          <input id="username" type="text" name="username" placeholder="Username"  ngModel #u
sername='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" ngMode
l #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>
</div>
```