App.module.ts

import { BrowserModule } from '@angular/platform-browser';  
import { ErrorHandler, ***NgModule*** } from '@angular/core';  
import { IonicApp, IonicErrorHandler, IonicModule } from 'ionic-angular';  
import { SplashScreen } from '@ionic-native/splash-screen';  
import { StatusBar } from '@ionic-native/status-bar';  
import { LocalNotifications } from '@ionic-native/local-notifications';  
import { Geolocation } from "@ionic-native/geolocation";  
  
import { AngularFireDatabaseModule } from 'angularfire2/database';  
import { AngularFireModule } from 'angularfire2';  
import {AngularFireAuth} from 'angularfire2/auth';  
  
import { MyApp } from './app.component';  
import { HomePage } from '../pages/home/home';  
import {LoginPage} from "../pages/login/login";  
import {GeolocationPage} from "../pages/geolocation/geolocation";  
  
const firebaseConfig = {  
 apiKey: "AIzaSyAl6UQXhQN6u9WJcyR5Rr0cG69x91GOBtw",  
 authDomain: "assignment5-e2ecb.firebaseapp.com",  
 databaseURL: "https://assignment5-e2ecb.firebaseio.com",  
 projectId: "assignment5-e2ecb",  
 storageBucket: "",  
 messagingSenderId: "654448086300",  
 appId: "1:654448086300:web:77de11044080605defbed9"  
};  
@NgModule({  
 declarations: [  
 MyApp,  
 HomePage,  
 GeolocationPage,  
 LoginPage  
 ],  
 imports: [  
 BrowserModule,  
 IonicModule.*forRoot*(MyApp),  
 AngularFireDatabaseModule,  
 AngularFireModule.*initializeApp*(firebaseConfig),  
 ],  
 bootstrap: [IonicApp],  
 entryComponents: [  
 MyApp,  
 HomePage,  
 GeolocationPage,  
 LoginPage  
 ],  
 providers: [  
 StatusBar,  
 SplashScreen,  
 {provide: ErrorHandler, useClass: IonicErrorHandler},  
 LocalNotifications,  
 Geolocation,  
 AngularFireAuth  
 ]  
})  
export class AppModule {}

login.ts

import { ***Component*** } from '@angular/core';  
import { IonicPage, NavController, NavParams } from 'ionic-angular';  
import {User} from "../../Models/user";  
import {AngularFireAuth} from 'angularfire2/auth';  
import {GeolocationPage} from "../geolocation/geolocation";  
  
*/\*\*  
 \* Generated class for the LoginPage page.  
 \*  
 \* See https://ionicframework.com/docs/components/#navigation for more info on  
 \* Ionic pages and navigation.  
 \*/*@IonicPage()  
@Component({  
 selector: 'page-login',  
 templateUrl: 'login.html',  
})  
export class LoginPage {  
 user = {} as User;  
 constructor(public navCtrl: NavController, public navParams: NavParams, private firebaseauth: AngularFireAuth) {  
 }  
  
 create(user:User){  
 try {  
 this.firebaseauth.auth.createUserWithEmailAndPassword(user.email, user.password).then(function () {  
 alert("Created successfully, Now Login");  
 user.email="";  
 user.password="";  
 }).catch(() =>  
 {  
 alert("invalid email/password should be of 6 characters");  
 })  
 }  
 catch(e){  
 ***console***.error(e);  
 }  
 }  
  
 login(user:User){  
 try {  
 this.firebaseauth.auth.signInWithEmailAndPassword(user.email, user.password).then(() => {  
 this.navCtrl.push(GeolocationPage);  
 }).catch(()=>{  
 alert("Try again. Invalid Credentials");  
 })  
 }  
 catch(e){  
 ***console***.error(e);  
 }  
 }  
  
  
}

login.html

<!--  
 Generated template for the LoginPage page.  
  
 See http://ionicframework.com/docs/components/#navigation for more info on  
 Ionic pages and navigation.  
-->  
<ion-header>  
  
 <ion-navbar>  
 <ion-title>Login Firebase</ion-title>  
 </ion-navbar>  
  
</ion-header>  
  
  
<ion-content padding>  
 <ion-item>  
 <ion-label floating>Email Address</ion-label>  
 <ion-input type = "text" [(ngModel)]="user.email"></ion-input>  
 </ion-item>  
 <ion-item>  
 <ion-label floating>Password</ion-label>  
 <ion-input type = "password" [(ngModel)]="user.password"></ion-input>  
 </ion-item>  
 <button ion-button (click)="login(user)">Login</button>  
 <button ion-button (click)="create(user)">Create</button>  
  
</ion-content>

Geolocation.ts

import { ***Component*** } from '@angular/core';  
import { IonicPage, NavController, NavParams } from 'ionic-angular';  
import { AngularFireDatabase} from '@angular/fire/database';  
import {AngularFireAuth} from "@angular/fire/auth";  
import {Observable} from "rxjs";  
  
*/\*\*  
 \* Generated class for the GeolocationPage page.  
 \*  
 \* See https://ionicframework.com/docs/components/#navigation for more info on  
 \* Ionic pages and navigation.  
 \*/*@IonicPage()  
@Component({  
 selector: 'page-geolocation',  
 templateUrl: 'geolocation.html',  
})  
export class GeolocationPage {  
  
 public geoLocationsList : Observable<any[]>;  
 public geoLocations : any;  
  
 constructor(public AngFireBaseDB: AngularFireDatabase, public FireAuth: AngularFireAuth) {  
 this.geoLocationsList = AngFireBaseDB.list(this.FireAuth.auth.currentUser.uid).valueChanges();  
 ***console***.log("user "+this.FireAuth.auth.currentUser.uid + this.geoLocationsList);  
 this.geoLocationsList.subscribe((geoList: any) =>{  
 this.geoLocations=geoList;  
 ***console***.log("hai");  
 ***console***.log("geoLocations"+this.geoLocations);  
 });  
 }  
  
 submit() {  
  
 const currentUser = this.AngFireBaseDB.list(this.FireAuth.auth.currentUser.uid);  
 ***console***.log(currentUser);  
 ***navigator***.geolocation.getCurrentPosition(geoLocationSuccess, geoLocationError, {enableHighAccuracy: true});  
  
 function geoLocationSuccess(position){  
 let d = new ***Date***();  
 currentUser.push({'GeoLatitude' : position.coords.latitude,  
 'GeoLongitude' : position.coords.longitude,  
 'GeoAltitude' : position.coords.altitude,  
 'GeoTimestamp' : d.getTime()});  
 }  
 function geoLocationError(error) {  
 alert('code: ' + error.code + '\n' +  
 'message: ' + error.message + '\n');  
 }  
  
  
 }  
}

geolocation.html

<!--  
 Generated template for the GeolocationPage page.  
  
 See http://ionicframework.com/docs/components/#navigation for more info on  
 Ionic pages and navigation.  
-->  
<ion-header>  
  
 <ion-navbar>  
 <ion-title>geolocation</ion-title>  
 </ion-navbar>  
  
</ion-header>  
  
  
<ion-content padding>  
 <form (ngSubmit)="submit()">  
 <ion-list>  
 <ion-item *\*ngFor*="let ***locationList*** of geoLocations">  
 <ion-label>Latitude: {{***locationList***.GeoLatitude}}</ion-label>  
 <ion-label>Longitude: {{***locationList***.GeoLongitude}}</ion-label>  
 <ion-label>TimeStamp: {{***locationList***.GeoTimestamp}}</ion-label>  
  
 </ion-item>  
 </ion-list>  
 <div padding>  
 <button ion-button full round>Get GeoLocation</button>  
 </div>  
 </form>  
</ion-content>