package com.example.containmentzone\_alert.activities;

import androidx.fragment.app.FragmentActivity;

import android.app.AlertDialog;

import android.content.DialogInterface;

import android.os.Bundle;

import android.util.Log;

import android.widget.Toast;

import com.example.containmentzone\_alert.R;

import com.example.containmentzone\_alert.models.MapMarkerLocation;

import com.example.containmentzone\_alert.roomdatabase.VisitedLocations;

import com.example.containmentzone\_alert.roomdatabase.VisitedLocationsDao;

import com.example.containmentzone\_alert.roomdatabase.VisitedLocationsDatabase;

import com.example.containmentzone\_alert.sharedPreferences.UserInfoSharedPreferences;

import com.google.android.gms.maps.CameraUpdateFactory;

import com.google.android.gms.maps.GoogleMap;

import com.google.android.gms.maps.OnMapReadyCallback;

import com.google.android.gms.maps.SupportMapFragment;

import com.google.android.gms.maps.model.LatLng;

import com.google.android.gms.maps.model.Marker;

import com.google.android.gms.maps.model.MarkerOptions;

import java.util.ArrayList;

import java.util.List;

public class MyLocationsMapsActivity extends FragmentActivity implements

OnMapReadyCallback, GoogleMap.OnMarkerClickListener {

private GoogleMap mMap;

// Model Creation

private List<MapMarkerLocation> locations = new ArrayList<>();

private int listPosition;

// Room Database

private VisitedLocationsDatabase roomDatabase;

private VisitedLocationsDao visitedLocationsDao;

private List<VisitedLocations> visitedLocationsList = new ArrayList<>();

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

roomDatabase = VisitedLocationsDatabase.getDatabase(this);

visitedLocationsDao = roomDatabase.visitedLocationsDao();

setContentView(R.layout.activity\_my\_locations\_maps);

SupportMapFragment mapFragment = (SupportMapFragment) getSupportFragmentManager()

.findFragmentById(R.id.map);

mapFragment.getMapAsync(this);

}

@Override

public void onMapReady(GoogleMap googleMap) {

mMap = googleMap;

moveCameraToHome();

fetchNShowLocationMarkers();

mMap.setOnMarkerClickListener(this);

}

private void moveCameraToHome() {

String[] home = UserInfoSharedPreferences.getHomeLatLng(this).split(",");

LatLng homeLatLng = new LatLng( Double.valueOf(home[0]), Double.valueOf(home[1]));

mMap.moveCamera(CameraUpdateFactory.newLatLngZoom(homeLatLng, 16.5f));

}

private void fetchNShowLocationMarkers() {

roomDatabase.databaseWriteExecutor.execute(new Runnable() {

@Override

public void run() {

visitedLocationsList = visitedLocationsDao.fetchAll();

listPosition = 0;

for (VisitedLocations visitedLocation: visitedLocationsList) {

/

String[] splitLLDT = visitedLocation.splitPrimaryKey();

final MapMarkerLocation location = new MapMarkerLocation(splitLLDT[0], splitLLDT[1]);

locations.add(location);

runOnUiThread(new Runnable() {

@Override

public void run() {

String markerTitle = locations.get(listPosition).getMeaningfulDateTime();

LatLng markerLatLng = new LatLng(locations.get(listPosition).getLatitude(), locations.get(listPosition).getLongitude());

Marker myLocationMarker =

mMap.addMarker( new MarkerOptions().position(markerLatLng).title(markerTitle));

myLocationMarker.setTag(

locations.get(listPosition).getRawLatLon() +

"\_"+

locations.get(listPosition).getRawDateTime()

);

listPosition++;

}

});

}

}

});

}

@Override

public boolean onMarkerClick(final Marker marker) {

final String tag = (String) marker.getTag();

AlertDialog Dialog = new AlertDialog.Builder(this)

.setMessage(marker.getTitle())

.setPositiveButton("Delete", new DialogInterface.OnClickListener() {

@Override

public void onClick(DialogInterface dialog, int which) {

// delete location from local db

roomDatabase.databaseWriteExecutor.execute(new Runnable() {

@Override

public void run() {

visitedLocationsDao.deletebyPrimaryKey(tag);

}

});

marker.remove();

Toast.makeText(MyLocationsMapsActivity.this, "location removed", Toast.LENGTH\_LONG)

.show();

dialog.dismiss();

}

})

.setNegativeButton("dismiss", new DialogInterface.OnClickListener() {

@Override

public void onClick(DialogInterface dialog, int which) {

dialog.dismiss();

}

})

.show();

return false;

    }

}