Project Development Phase

Sprint - 3

Team ID	PNT2022TMID35229
Project Name	CONTAINMENT ZONE ALERTING

MainActivity.java

```
package com.example.client_containment;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
import android.Manifest;
import android.app.PendingIntent;
import android.content.Intent;
import android.content.SharedPreferences;
import android.content.pm.PackageManager;
import android.os.Bundle;
import android.util.Log;
import android.widget.TextView;
import android.widget.Toast;
import com.example.client containment.Service.MyLocationService;
import com.google.android.gms.location.FusedLocationProviderClient;
import com.google.android.gms.location.LocationRequest;
import com.google.android.gms.location.LocationServices;
import com.karumi.dexter.Dexter;
import com.karumi.dexter.PermissionToken;
import com.karumi.dexter.listener.PermissionDeniedResponse;
import com.karumi.dexter.listener.PermissionGrantedResponse;
import com.karumi.dexter.listener.PermissionRequest:
import com.karumi.dexter.listener.single.PermissionListener;
public class MainActivity extends AppCompatActivity {
static MainActivity instance;
LocationRequest locationRequest;
TextView loc:
FusedLocationProviderClient fusedLocationProviderClient:
SharedPreferences sharedPreferences;
public static MainActivity getInstance() {
return instance;
@Override
```

```
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
instance = this:
loc = findViewById(R.id.location_text);
sharedPreferences =
getApplicationContext().getSharedPreferences("user_data", 0);
Log.d("shared pref", sharedPreferences.getString("name", "0"));
Dexter.withActivity(this)
.withPermission(Manifest.permission.ACCESS_FINE_LOCATION)
.withListener(new PermissionListener() {
@Override
public void on Permission Granted (Permission Granted Response
response) {
updateLocation();
}
@Override
public void onPermissionDenied(PermissionDeniedResponse response)
Toast.makeText(MainActivity.this, "No location",
Toast.LENGTH_LONG).show();
@Override
public void onPermissionRationaleShouldBeShown(PermissionRequest
permission, PermissionToken token) {
}).check();
private void updateLocation() {
buildLocationRequest();
fusedLocationProviderClient =
LocationServices.getFusedLocationProviderClient(this);
if (ActivityCompat.checkSelfPermission(this,
Manifest.permission.ACCESS_FINE_LOCATION) !=
PackageManager.PERMISSION_GRANTED &&
ActivityCompat.checkSelfPermission(this,
Manifest.permission.ACCESS_COARSE_LOCATION) !=
PackageManager.PERMISSION_GRANTED) {
// TODO: Consider calling
// ActivityCompat#requestPermissions
// here to request the missing permissions, and then overriding
// public void onRequestPermissionsResult(int requestCode, String[]
permissions,
```

```
// int[] grantResults)
// to handle the case where the user grants the permission. See the
documentation
// for ActivityCompat#requestPermissions for more details.
return;
fused Location Provider Client.request Location Updates (location Request, the control of the 
getPendingIntent());
private PendingIntent getPendingIntent() {
Intent intent = new Intent(this, MyLocationService.class);
intent.setAction(MyLocationService.ACTION PROCESS UPDATE);
return
PendingIntent.getBroadcast(this,0,intent,PendingIntent.FLAG_UPDATE
_CURRENT);
}
private void buildLocationRequest(){
locationRequest = new LocationRequest();
locationRequest
.setPriority(LocationRequest.PRIORITY_HIGH_ACCURACY);
locationRequest.setInterval(3000);
locationRequest.setFastestInterval(1000);
locationRequest.setSmallestDisplacement(10f);
public void updateTextView(String location){
MainActivity.this.runOnUiThread(new Runnable() {
 @Override
public void run() {
loc.setText(location);
}
});
```

SignUp.java

```
package com.example.client_containment;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.EditText;
import com.android.volley.Request;
import com.android.volley.RequestQueue;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.JsonObjectRequest;
import com.android.volley.toolbox.Volley;
import org.json.JSONException;
import org.json.JSONObject;
public class SignUp extends AppCompatActivity {
private EditText name;
private EditText email;
private EditText password;
SharedPreferences sharedpreferences;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity sign up);
name = findViewById(R.id.name);
email = findViewById(R.id.email);
password = findViewById(R.id.password);
sharedpreferences =
getApplicationContext().getSharedPreferences("user_data", 0);
SharedPreferences.Editor editor = sharedpreferences.edit();
editor.clear();
editor.commit();
if(sharedpreferences.getAll().size() >= 3){
Intent intent = new Intent(this, MainActivity.class);
startActivity(intent);
}
public void signUp(View view) {
if(!name.getText().equals("") || !email.getText().equals("") ||
!password.getText().equals("")){
```

```
postDataUsingVolley(name.getText().toString(),email.getText().toString()
,password.getText().
toString());
}
private void postDataUsingVolley(String name, String email, String
password) {
final RequestQueue queue = Volley.newRequestQueue(this);
String url = "http://192.168.43.234:5000/android_signup";
JSONObject postparams = new JSONObject();
try {
postparams.put("name", name);
postparams.put("email", email);
postparams.put("password", password);
} catch (JSONException e) {
e.printStackTrace();
}
JsonObjectRequest jsonObjReq = new
JsonObjectRequest(Request.Method.POST, url,
postparams,
response -> {
Log.d("response",response.toString());
try {
int userId = response.getInt("id");
SharedPreferences.Editor editor = sharedpreferences.edit();
editor.putString("name", name);
editor.putString("email", email);
editor.putInt("id", userId);
editor.commit();
System.out.println("The user id is: "+name+" "+email+" "+userId);
Intent intent = new Intent(SignUp.this,MainActivity.class);
startActivity(intent):
} catch (JSONException e) {
e.printStackTrace();
}
error -> Log.d("error",error.toString()));
queue.add(isonObiReq);
```

Screenshots



