LP saint quentin

TP TRACKING

La protection de nos enfants avant tout

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INTRODUCTION

Tp tracking est une application mobile qui, préconfigurée, envoie un message sur la position de votre enfant.

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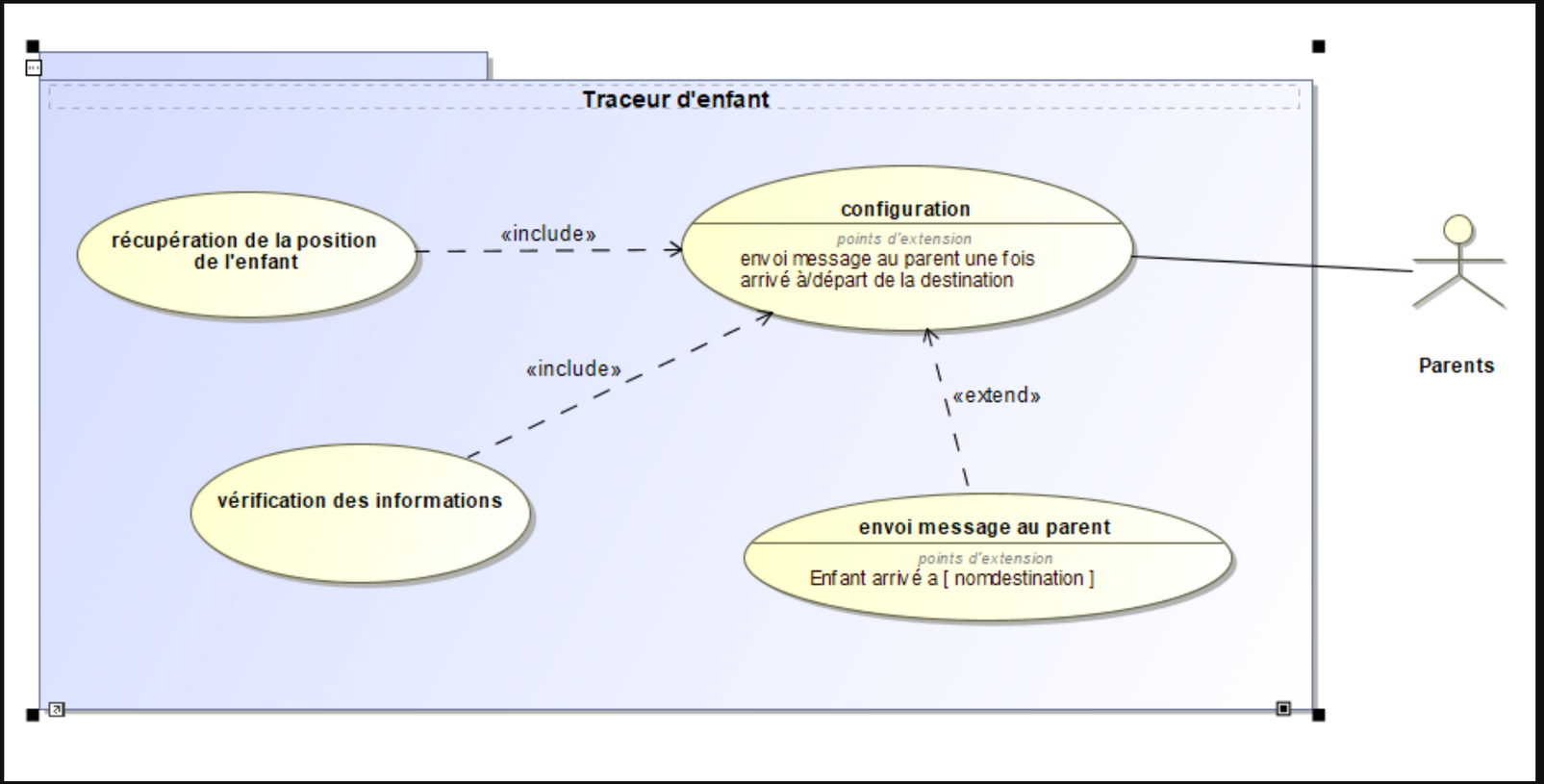
DIAGRAMME CAS D'USAGE



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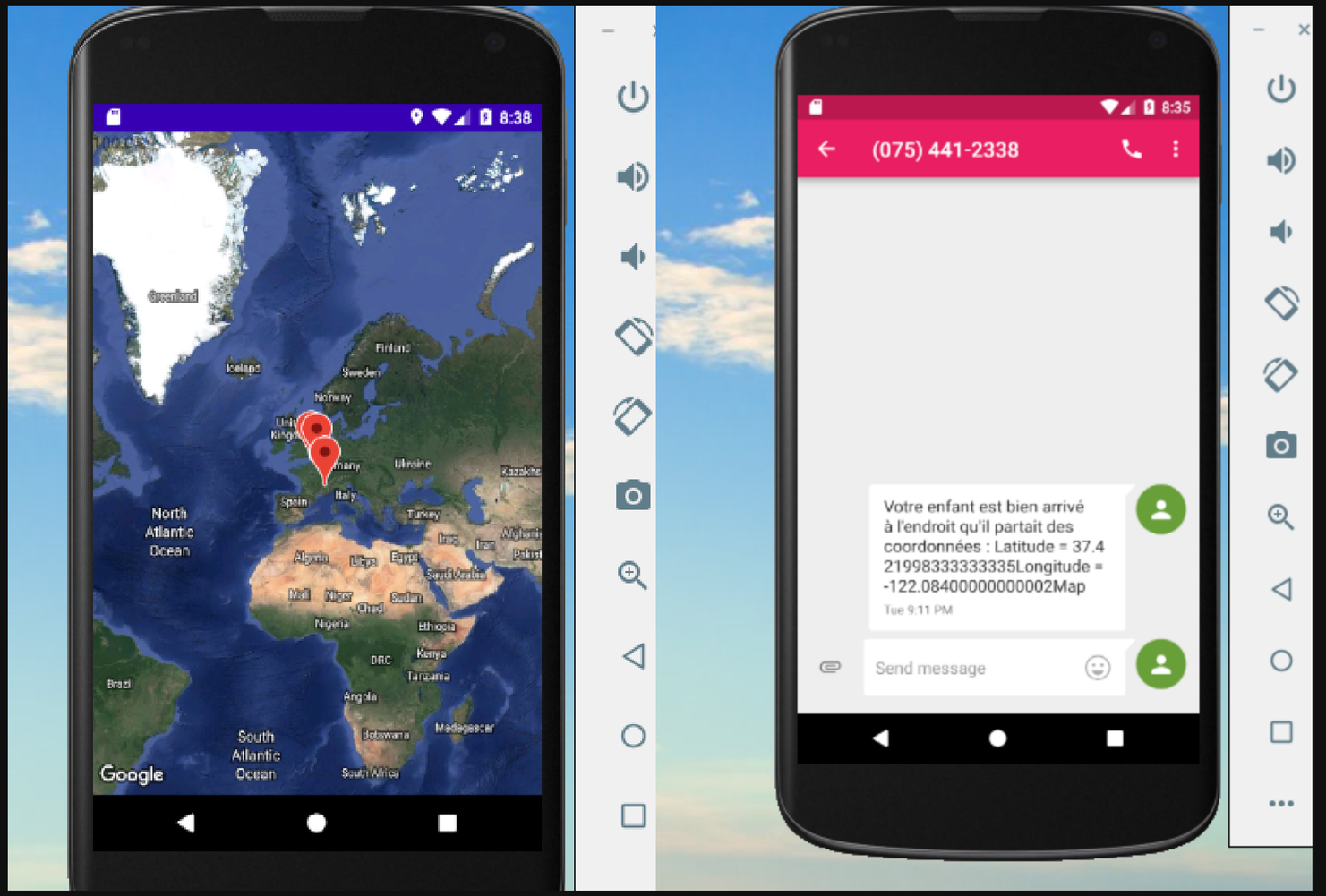
IHM



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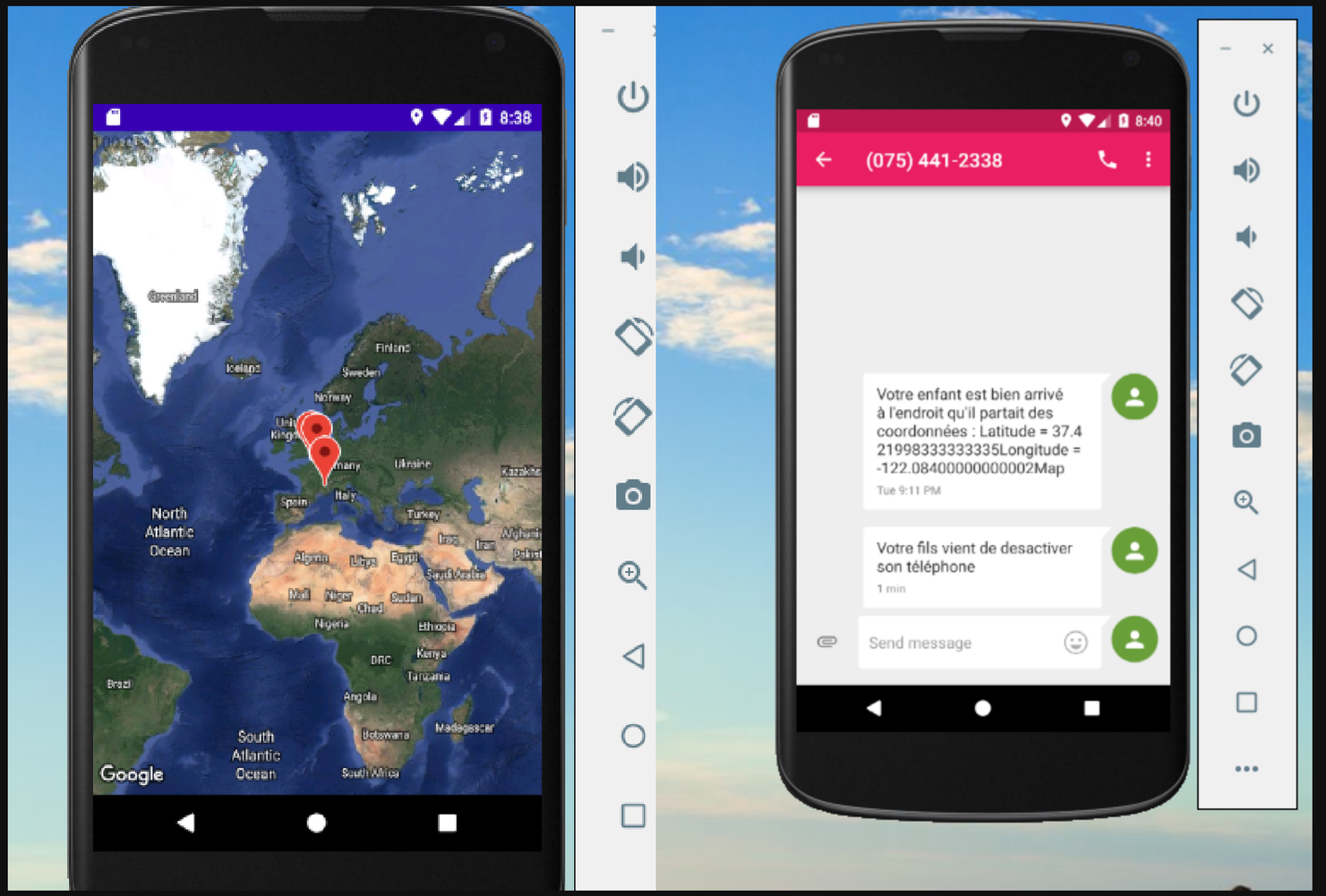
IHM



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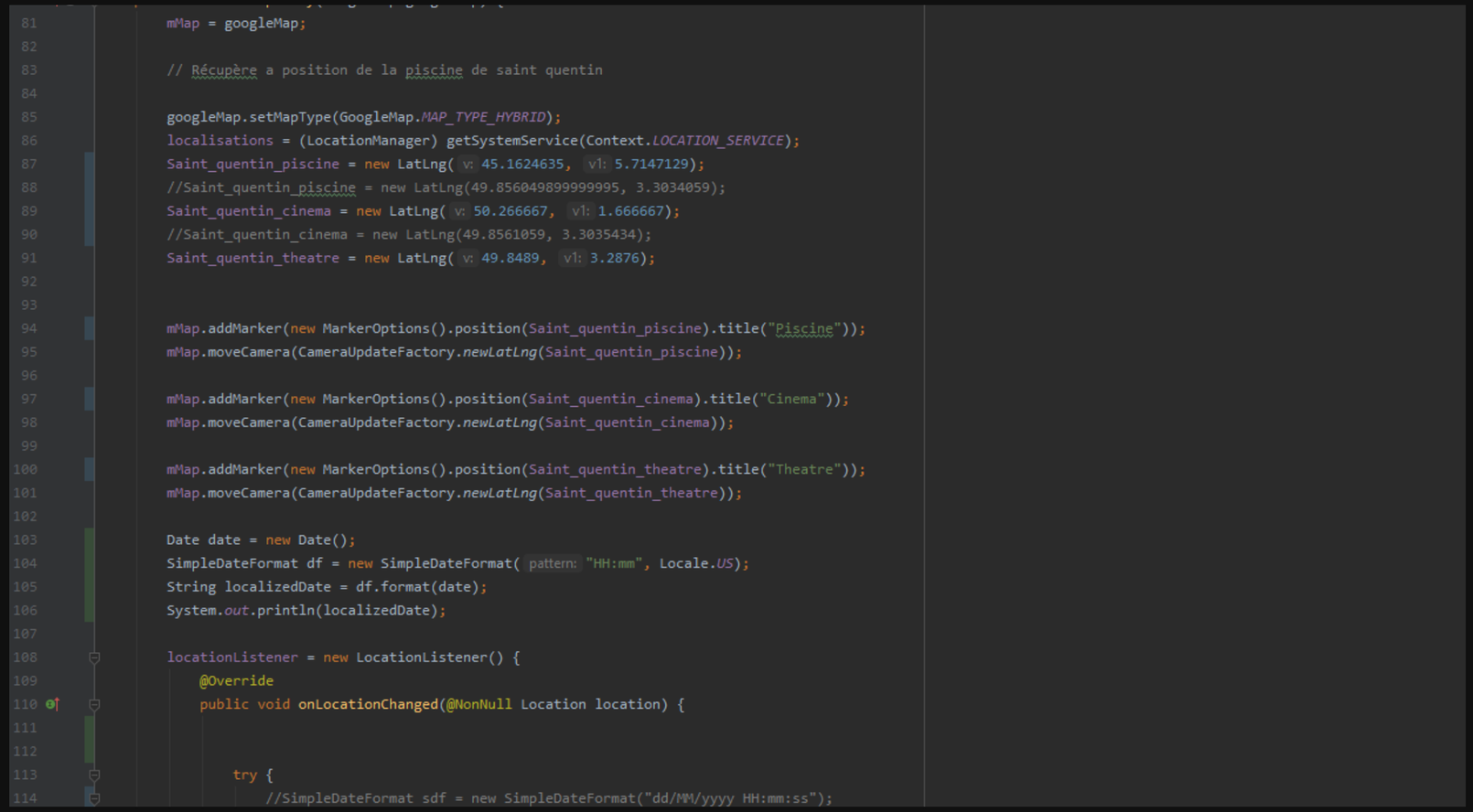
CODE



```
81          mMap = googleMap;
82
83          // Récupère a position de la piscine de saint quentin
84
85          googleMap.setMapType(GoogleMap.MAP_TYPE_HYBRID);
86          localisations = (LocationManager) getSystemService(Context.LOCATION_SERVICE);
87          Saint_quentin_piscine = new LatLng( v: 45.1624635,  v1: 5.7147129);
88          //Saint_quentin_piscine = new LatLng(49.856049899999995, 3.3034059);
89          Saint_quentin_cinema = new LatLng( v: 50.266667,  v1: 1.666667);
90          //Saint_quentin_cinema = new LatLng(49.8561059, 3.3035434);
91          Saint_quentin_theatre = new LatLng( v: 49.8489,  v1: 3.2876);
92
93
94          mMap.addMarker(new MarkerOptions().position(Saint_quentin_piscine).title("Piscine"));
95          mMap.moveCamera(CameraUpdateFactory.newLatLng(Saint_quentin_piscine));
96
97          mMap.addMarker(new MarkerOptions().position(Saint_quentin_cinema).title("Cinema"));
98          mMap.moveCamera(CameraUpdateFactory.newLatLng(Saint_quentin_cinema));
99
100         mMap.addMarker(new MarkerOptions().position(Saint_quentin_theatre).title("Theatre"));
101         mMap.moveCamera(CameraUpdateFactory.newLatLng(Saint_quentin_theatre));
102
103         Date date = new Date();
104         SimpleDateFormat df = new SimpleDateFormat( pattern: "HH:mm", Locale.US);
105         String localizedDate = df.format(date);
106         System.out.println(localizedDate);
107
108         locationListener = new LocationListener() {
109             @Override
110             public void onLocationChanged(@NonNull Location location) {
111
112
113                 try {
114                     //SimpleDateFormat sdf = new SimpleDateFormat("dd/MM/yyyy HH:mm:ss");
```

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CODE

```
public void reslong(LatLng latLng){


    mMap.addMarker(new MarkerOptions().position(latLng).title("Ma position"));
    mMap.moveCamera(CameraUpdateFactory.newLatLng(latLng));

    String phoneNumber = "0754412338";
    String myLatitude = String.valueOf(latLng.latitude);
    String myLongitude = String.valueOf(latLng.longitude);

    String message = "Votre enfant est bien arrivé à l'endroit qu'il partait des coordonnées : Latitude = " + myLatitude + "Longitude = " + myLongitude + getTitle();
    SmsManager smsManager = SmsManager.getDefault();
    smsManager.sendTextMessage(phoneNumber,  scAddress: null, message,  sentIntent: null,  deliveryIntent: null);
}

private double Dist(double lat1, double lon1, double lat2, double lon2)
{
    int R = 6373; // radius of the earth in kilometres
    double lat1rad = Math.toRadians(lat1);
    double lat2rad = Math.toRadians(lat2);
    double deltaLat = Math.toRadians(lat2-lat1);
    double deltaLon = Math.toRadians(lon2-lon1);

    double a = Math.sin(deltaLat/2) * Math.sin(deltaLat/2) +
            Math.cos(lat1rad) * Math.cos(lat2rad) *
                    Math.sin(deltaLon/2) * Math.sin(deltaLon/2);
    double c = 2 * Math.atan2(Math.sqrt(a), Math.sqrt(1-a));

    double d = R * c;
    return d;
}
```

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CODE

```
//Recuperation de la charge de battery
private BroadcastReceiver batterylevelReceiver = (context, intent) → {
        int level = intent.getIntExtra(BatteryManager.EXTRA_LEVEL,  defaultValue: -1);
        int scale = intent.getIntExtra(BatteryManager.EXTRA_SCALE,  defaultValue: -1);
        float batteryPct = level * 100 / (float)scale;

        battery.setText(String.valueOf(batteryPct)+"%");


        if (batteryPct == 0){
            String message = "Le téléphone de votre enfant est déchargé";
            SmsManager smsManager = SmsManager.getDefault();
            String phoneNumber = "0754412338";
            smsManager.sendTextMessage(phoneNumber,  scAddress: null, message,  sentIntent: null,  deliveryIntent: null);
        }else {

            String message = "Votre fils vient de desactiver son téléphone";
            String phoneNumber = "0754412338";
            SmsManager smsManager = SmsManager.getDefault();
            smsManager.sendTextMessage(phoneNumber,  scAddress: null, message,  sentIntent: null,  deliveryIntent: null);
        }
};
```