Geolocalización

android.location

Permisos

- <uses-permission android:name="android.permission. ACCESS_FINE_LOCATION" />
- <uses-permission android:name="android.permission. ACCESS_COARSE_LOCATION" />

Gestor de localizaciones

LocationManager locationManager = (LocationManager) this.getSystemService(Context.LOCATION_SERVICE);

Proveedores de señales

- LocationManager. NETWORK_PROVIDER
- LocationManager. GPS_PROVIDER

Disponibilidad

- locationManager.isProviderEnabled(LocationM anager.GPS_PROVIDER)
- locationManager.isProviderEnabled(LocationM anager.NETWORK_PROVIDER)

Activar GPS

startActivity(new Intent(Settings.ACTION_LOCATION_SOURCE_SETTIN GS));

Última localización conocida

- Location ultimaRed = locationManager. getLastKnownLocation(LocationManager. NETWORK_PROVIDER);
- Location ultimaGPS = locationManager. getLastKnownLocation(LocationManager. GPS_PROVIDER);

LocationListener

```
LocationListener locationListener = new LocationListener() {
  @Override
  public void onLocationChanged(Location location) {
  @Override
  public void on Status Changed (String provider, int status, Bundle
  extras) {
  @Override
  public void onProviderEnabled(String provider) {
  @Override
  public void onProviderDisabled(String provider) {
```

Obtener localizaciones

- locationManager.requestLocationUpdates(LocationManager. GPS_PROVIDER, tiempo, distancia, locationListener);
- locationManager.requestLocationUpdates(LocationManager.NETWORK_PROVIDER, tiempo, distancia, locationListener);
- locationManager.removeUpdates(locationListe ner);

Procesar localizaciones

```
@Override
public void onLocationChanged(Location
 location) {
  location.getAccuracy();
  location.getAltitude();
  location.getLatitude();
  location.getLongitude();
  location.getProvider();
```