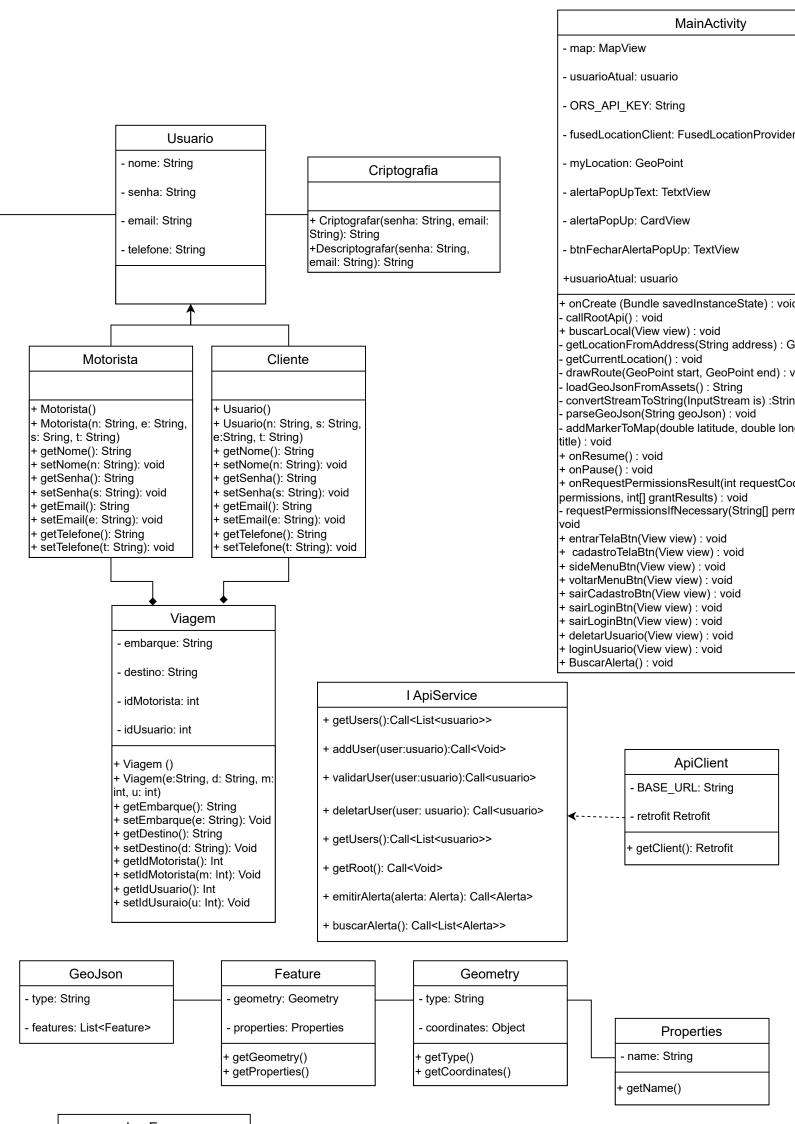## Alerta

- nomeUsuario: String

- longitude: double

- latitude: double

- tipoAlerta: String

+ Alerta(nomeUsuario: String, longitude: double, latitude:double, tipoAlerta: String): void
+ Alerta(longitude: double, latitude:double, tipoAlerta: String): void
+getNomeUsuario(): String
+getLongitude():

Alertas

- nomeUsuarioAtual : String

- fusedLocationClient : FusedLocationProviderClient

- latitude : Double

- longitude : Double

- tipoAlerta : String

- rbCelular : RadioButton

- rbCarro : RadioButton

- apiService : ApiService

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onCreate(Bundle savedInstanceState) : void
- getCurrentLocation() : void
- tipoRadioGroup() : void
- EmitirAlerta() : void

MeuPerfil

---

onCreate(Bundle savedInstanceState) : void

Usuario

- nome: String
- senha: String
- email: String
- telefone: String

Criptografia

+ Criptografar(senha: String, email: String): String
+Descriptografar(senha: String, email: String): String

Motorista

+ Motorista()
+ Motorista(n: String, e: String, s: Sring, t: String)
+ getNome(): String
+ setNome(n: String): void
+ getSenha(): String
+ setSenha(s: String): void
+ getEmail(): String
+ setEmail(e: String): void
+ getTelefone(): String
+ setTelefone(t: String): void

Cliente

+ Usuario()
+ Usuario(n: String, s: String, e:String, t: String)
+ getNome(): String
+ setNome(n: String): void
+ getSenha(): String
+ setSenha(s: String): void
+ getEmail(): String
+ setEmail(e: String): void
+ getTelefone(): String
+ setTelefone(t: String): void

MainActivity

- map: MapView
- usuarioAtual: usuario
- ORS_API_KEY: String
- fusedLocationClient: FusedLocationProvider
- myLocation: GeoPoint
- alertaPopUpText: TetxtView
- alertaPopUp: CardView
- btnFecharAlertaPopUp: TextView
+usuarioAtual: usuario

+ onCreate (Bundle savedInstanceState) : void
- callRootApi() : void
+ buscarLocal(View view) : void
- getLocationFromAddress(String address) : G
- getCurrentLocation() : void
- drawRoute(GeoPoint start, GeoPoint end) : v
- loadGeoJsonFromAssets() : String
- convertStreamToString(InputStream is) :Strin
- parseGeoJson(String geoJson) : void
- addMarkerToMap(double latitude, double long
title) : void
+ onResume() : void
+ onPause() : void
+ onRequestPermissionsResult(int requestCo
permissions, int[] grantResults) : void
- requestPermissionsIfNecessary(String[] perm
void
+ entrarTelaBtn(View view) : void
+ cadastroTelaBtn(View view) : void
+ sideMenuBtn(View view) : void
+ voltarMenuBtn(View view) : void
+ sairCadastroBtn(View view) : void
+ sairLoginBtn(View view) : void
+ sairLoginBtn(View view) : void
+ deletarUsuario(View view) : void
+ loginUsuario(View view) : void
+ BuscarAlerta() : void

Viagem

- embarque: String
- destino: String
- idMotorista: int
- idUsuario: int

+ Viagem ()
+ Viagem(e:String, d: String, m: int, u: int)
+ getEmbarque(): String
+ setEmbarque(e: String): Void
+ getDestino(): String
+ setDestino(d: String): Void
+ getIdMotorista(): Int
+ setIdMotorista(m: Int): Void
+ getIdUsuario(): Int
+ setIdUsuraio(u: Int): Void

I ApiService

+ getUsers():Call<List<usuario>>
+ addUser(user:usuario):Call<Void>
+ validarUser(user:usuario):Call<usuario>
+ deletarUser(user: usuario): Call<usuario>
+ getUsers():Call<List<usuario>>
+ getRoot(): Call<Void>
+ emitirAlerta(alerta: Alerta): Call<Alerta>
+ buscarAlerta(): Call<List<Alerta>>

ApiClient

- BASE_URL: String
- retrofit Retrofit

+ getClient(): Retrofit

GeoJson

- type: String
- features: List<Feature>

Feature

- geometry: Geometry
- properties: Properties

+ getGeometry()
+ getProperties()

Geometry

- type: String
- coordinates: Object

+ getType()
+ getCoordinates()

Properties

- name: String

+ getName()

Client

d

eoPoint

oid

g

gitude, String

de, String[]

missions) :

```
LogErros
- logErro: String

- apiService: ApiService

+ LogErros(e:Exception): void
+ CriarLogErros(): void
+ getErrosLog(): String
+ setErrosLog(errosLog: String)
```