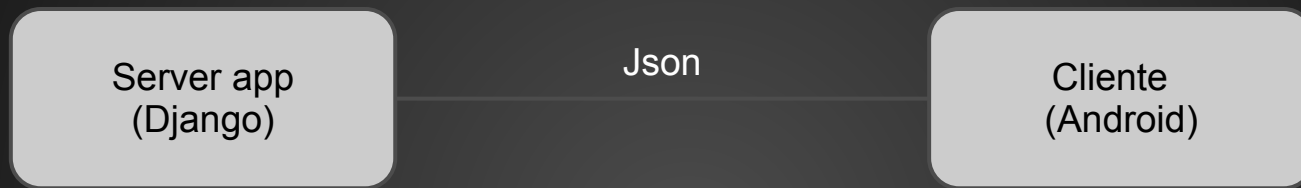


Autopricing

Charlas on the go (Mayo)
Mayte Giménez

Arquitectura de la aplicación



Django

- Framework de alto nivel de python.
- Modela la base de datos. (spatialite (sqlite con soporte GIS))
- Sistema de plantillas.
- Diseño de urls.
- Permite internacionalización

Geodjango



OpenLayers



KML

GML

WKT

GeoJSON

GeoRSS

geodjango



GEOS

PROJ.4



ORACLE®



OSM & Open Layers

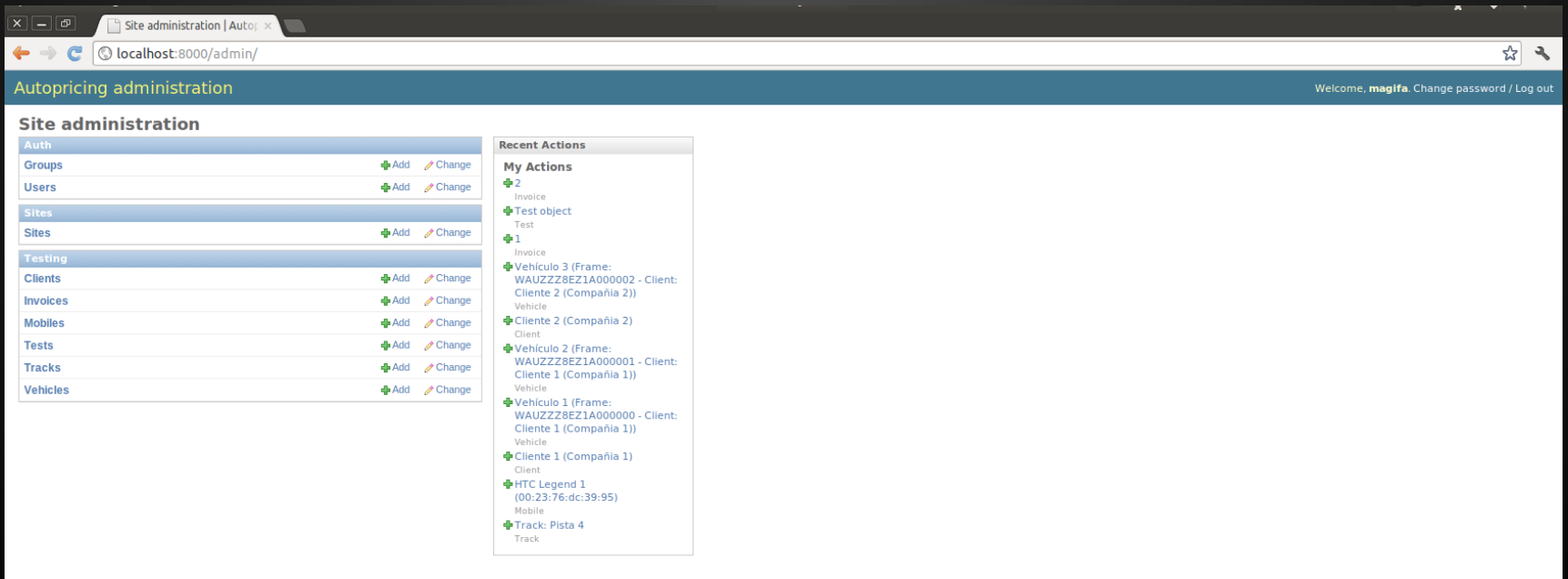
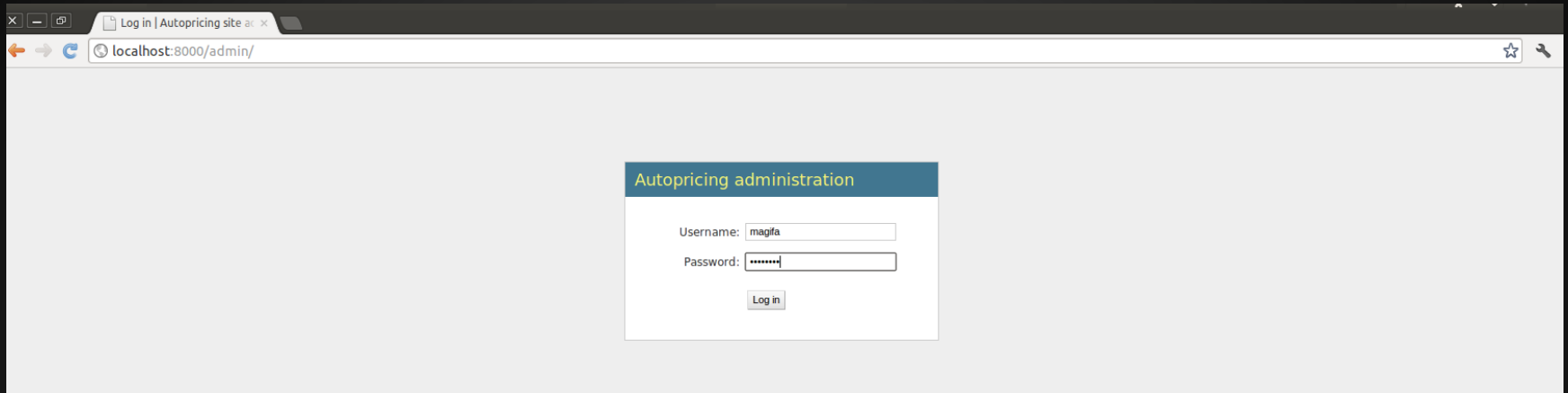


- Open Database License (ODbL)
- Dibujamos las pistas sobre una capa de Open Layers sobre OSM.
- Se utiliza el formato estándar WKT para dibujar estas pistas.

Javascript

- Open Layers utiliza javascript para incluir los mapas en la web.
- Inyectamos las dependencias (las pistas) desde Django.
- Plantillas javascript en el proyecto django.

Admin: pantallas de inicio



Admin: Car

Browser tabs: Add vehicle | Autopricing | x

Address bar: localhost:8000/admin/testing/vehicle/add/

Autopricing administration Welcome, **magifa**. [Change password](#) / [Log out](#)

Home > Testing > Vehicles > Add vehicle

Add vehicle

Name:

Color:

Frame:

[Save and add another](#) [Save and continue editing](#) [Save](#)

Browser tabs: Select vehicle to change | x

Address bar: localhost:8000/admin/testing/vehicle/

Autopricing administration Welcome, **magifa**. [Change password](#) / [Log out](#)

Home > Testing > Vehicles

Select vehicle to change

[Add vehicle](#) +

Action: [Go](#) 0 of 2 selected

<input type="checkbox"/>	Vehicle
<input type="checkbox"/>	Vehiculo 2 (Frame: WAUZZZ8EZ1A000001)
<input type="checkbox"/>	Vehiculo 1 (Frame: WAUZZZ8EZ1A000000)

2 vehicles

Admin: Clients

Browser tabs: Add client | Autopricing sli x

Browser address bar: localhost:8000/admin/testing/client/add/

Autopricing administration Welcome, **magifa**. Change password / Log out

Home > Testing > Clients > Add client

Add client

Name:

Company:

Browser tabs: Select client to change | A x

Browser address bar: localhost:8000/admin/testing/client/

Autopricing administration Welcome, **magifa**. Change password / Log out

Home > Testing > Clients

✓ The client "Cliente 2 (Compañía 2)" was changed successfully.

Select client to change

Action: 0 of 2 selected

<input type="checkbox"/>	Client
<input type="checkbox"/>	Cliente 2 (Compañía 2)
<input type="checkbox"/>	Cliente 1 (Compañía 1)

2 clients

Admin: Invoice

Change invoice | Autoprice | x

localhost:8000/admin/testing/invoice/1/

Autopricing administration

Welcome, **magifa**. Change password / Log out

Home > Testing > Invoices > 1

Change invoice

History

Date:	2012-05-21 Today
Client:	Cliente 1 (Compañía 1)
Total:	0.0

Delete

Save and add another Save and continue editing **Save**

Select invoice to change | x

localhost:8000/admin/testing/invoice/

Autopricing administration

Welcome, **magifa**. Change password / Log out

Home > Testing > Invoices

Select invoice to change

Add invoice

Action: Go 0 of 1 selected

Invoice
1

1 invoice

Admin: Mobile

Browser tabs: Add mobile | Autopricing

Address bar: localhost:8000/admin/testing/mobile/add/

Autopricing administration Welcome, **magifa**. Change password / Log out

Home > Testing > Mobiles > Add mobile

Add mobile

Name:

Mac:

Browser tabs: Select mobile to change

Address bar: localhost:8000/admin/testing/mobile/

Autopricing administration Welcome, **magifa**. Change password / Log out

Home > Testing > Mobiles

Select mobile to change

Action: 0 of 1 selected

<input type="checkbox"/>	Mobile
<input checked="" type="checkbox"/>	HTC Legend 1 (00:23:76:dc:39:95)

1 mobile

Admin: Tests

Browser tabs: Add test | Autopricing site x

Address bar: localhost:8000/admin/testing/test/add/

Autopricing administration Welcome, **magifa**. Change password / Log out

Home > Testing > Tests > Add test

Add test

Mobile:	HTC Legend 1 (00:23:76:dc:39:95) ▼ +
Car:	Vehiculo 1 (Frame: WAUZZZ8EZ1A000000 - Client: Cliente 1 (Compañía 1)) ▼ +
Track:	Track: Pista 1 ▼ +
Minutes:	<input type="text" value="5"/>
Price:	<input type="text" value="25"/>
Invoice:	<input type="text" value="1"/> ▼ +

Admin: Tracks

Change track | Autopricing

localhost:8000/admin/testing/track/1/

Autopricing administration

Welcome, magifa. Change password / Log out

Home > Testing > Tracks > Track: Pista 1


Change track

History

Name:

Price:

Area:



Delete all Features

Delete

Save and add another

Save and continue editing

Save

Home > Testing > Tracks

The track "Track: Pista 4" was added successfully.

Select track to change

Add track +

Search

Action: Go 0 of 4 selected

<input type="checkbox"/>	Name
<input checked="" type="checkbox"/>	Pista 4
<input type="checkbox"/>	Pista 3
<input type="checkbox"/>	Pista 2
<input type="checkbox"/>	Pista 1

4 tracks

Admin: Vehicle


Browser tabs: Add vehicle | Autopricing | x

Address bar: localhost:8000/admin/testing/vehicle/add/

Autopricing administration Welcome, **magifa**. Change password / Log out

Home > Testing > Vehicles > Add vehicle

Add vehicle

Name:	<input type="text" value="Vehiculo 1"/>
Color:	<input type="text" value="crimson red"/>
Frame:	<input type="text" value="WAUZZZ8EZ1A000000"/>
Client:	<div>Cliente 1 (Compañía 1) ▼ </div>


Browser tabs: Select vehicle to change | x

Address bar: localhost:8000/admin/testing/vehicle/

Autopricing administration Welcome, **magifa**. Change password / Log out

Home > Testing > Vehicles

Select vehicle to change



Action: 0 of 3 selected

<input type="checkbox"/>	Vehicle
<input checked="" type="checkbox"/>	Vehiculo 3 (Frame: WAUZZZ8EZ1A000003 - Client: Cliente 2 (Compañía 2))
<input type="checkbox"/>	Vehiculo 2 (Frame: WAUZZZ8EZ1A000001 - Client: Cliente 1 (Compañía 1))
<input type="checkbox"/>	Vehiculo 1 (Frame: WAUZZZ8EZ1A000000 - Client: Cliente 1 (Compañía 1))

3 vehicles


Client: Tracks

Tracks

localhost:8000/tracks/

Autopricing

Tracks



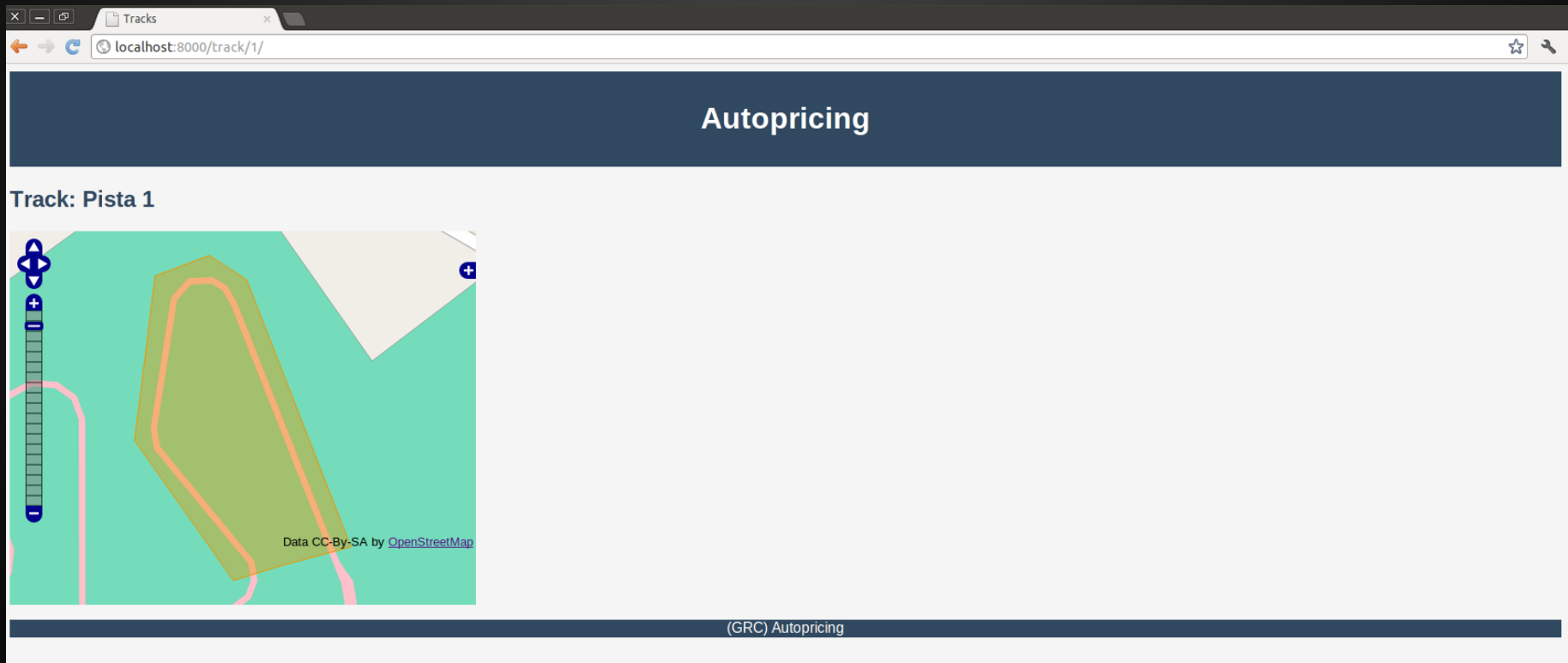
Pista 1 - POLYGON ((-0.6268000000000000 39.4869029999999981, -0.6273580000000000 39.4867699999999999, -0.6284950000000000 39.4880119999999977, -0.6282590000000000 39.4894699999999972, -0.6276370000000000 39.4896519999999995, -0.6272080000000000 39.4894370000000023, -0.6260060000000000 39.4870680000000007, -0.6268000000000000 39.4869029999999981))

Pista 2 - POLYGON ((-0.6262310000000000 39.4867950000000008, -0.6260280000000000 39.4868609999999975, -0.6259200000000000 39.4867539999999977, -0.6258770000000000 39.4865629999999967, -0.6259310000000000 39.4862899999999968, -0.6261460000000000 39.4859840000000020, -0.6267250000000000 39.4856440000000006, -0.6272610000000000 39.4852550000000022, -0.6316490000000000 39.4829280000000011, -0.6322719999999999 39.4824479999999980, -0.6338170000000000 39.4819919999999982, -0.6345570000000000 39.4815619999999967, -0.6346430000000000 39.4817269999999994, -0.6292250000000000 39.4846750000000029, -0.6266180000000000 39.4861080000000015, -0.6262210000000000 39.4864389999999972, -0.6262310000000000 39.4867950000000008))

Pista 3 - POLYGON ((-0.6325940000000000 39.4854290000000034, -0.6328940000000000 39.4838719999999981, -0.6326790000000000 39.4835909999999970, -0.6323150000000000 39.4834749999999985, -0.6288600000000000 39.4852470000000011, -0.6291820000000000 39.4856610000000003, -0.6295470000000000 39.4857769999999988, -0.6305770000000000 39.4854789999999980, -0.6305980000000000 39.4856279999999984, -0.6297180000000000 39.4869360000000000, -0.6299110000000000 39.4873830000000012, -0.6300829999999999 39.4873669999999990, -0.6304480000000000 39.4874330000000029, -0.6309630000000000 39.4872340000000008, -0.6314560000000000 39.4868530000000035, -0.6318430000000000 39.4861410000000035, -0.6320570000000000 39.4857769999999988, -0.6324010000000000 39.4855609999999970, -0.6325940000000000 39.4854290000000034))

Pista 4 - POLYGON ((-0.6278090000000000 39.4865050000000011, -0.6275940000000000 39.4862240000000000, -0.6283660000000000 39.4857930000000010, -0.6289460000000000 39.4858759999999975, -0.6291170000000000 39.4860579999999999, -0.6293110000000000 39.4863890000000026, -0.6292890000000000 39.4882769999999965, -0.6294610000000000 39.4883439999999979, -0.6297180000000000 39.4883439999999979, -0.6325720000000000 39.4868200000000016, -0.6334950000000000 39.4855779999999967, -0.6338170000000000 39.4857099999999974, -0.6329370000000000 39.4869860000000017, -0.6297400000000000 39.4887239999999977, -0.6292030000000000 39.4887239999999977, -0.6289460000000000 39.4885260000000002, -0.6287960000000000 39.4882610000000014, -0.6289030000000000 39.4864719999999991, -0.6288170000000000 39.4863069999999965, -0.6286670000000000 39.4861739999999983, -0.6284090000000000 39.4862070000000003, -0.6283660000000000 39.4861410000000035, -0.6279160000000000 39.4864060000000023, -0.6278090000000000 39.4865050000000011))

Client: Track_id



Json services

```
localhost:8000/api/tracks/ x
localhost:8000/api/tracks/
[
  {
    "pk": 1,
    "model": "testing.track",
    "fields": {
      "price": 5.0,
      "name": "Pista 1",
      "area": "POLYGON ((-0.6268000000000000 39.4869029999999981, -0.6273500000000000 39.4867699999999999, -0.6284950000000000 39.4880119999999977, -0.6282590000000000 39.4894699999999972, -0.6276370000000000 39.4896519999999995, -0.6272080000000000 39.4894370000000023, -0.6260060000000000 39.4870680000000007, -0.6268000000000000 39.4869029999999981)))"
    }
  },
  {
    "pk": 2,
    "model": "testing.track",
    "fields": {
      "price": 10.0,
      "name": "Pista 2",
      "area": "POLYGON ((-0.6262310000000000 39.4867950000000008, -0.6260280000000000 39.4868609999999975, -0.6259200000000000 39.4867539999999977, -0.6258770000000000 39.4865629999999967, -0.6259310000000000 39.4862899999999968, -0.6261460000000000 39.4859840000000020, -0.6267250000000000 39.4856440000000006, -0.6272610000000000 39.4852550000000022, -0.6316490000000000 39.4829280000000011, -0.6322719999999999 39.4824479999999980, -0.6338170000000000 39.4819919999999982, -0.6345570000000000 39.4815619999999967, -0.6346430000000000 39.4817269999999994, -0.6292250000000000 39.4846750000000029, -0.6266180000000000 39.4861080000000015, -0.6262210000000000 39.4864389999999972, -0.6262310000000000 39.4867950000000008)))"
    }
  },
  {
    "pk": 3,
    "model": "testing.track",
    "fields": {
      "price": 15.0,
      "name": "Pista 3",
      "area": "POLYGON ((-0.6325940000000000 39.4854290000000034, -0.6328940000000000 39.4838719999999981, -0.6326790000000000 39.4835009999999970, -0.6323150000000000 39.4834749999999985, -0.6288600000000000 39.4852470000000011, -0.6291820000000000 39.4856610000000003, -0.6295470000000000 39.4857769999999988, -0.6305770000000001 39.4854789999999980, -0.6305980000000000 39.4856279999999984, -0.6297180000000000 39.4869360000000000, -0.6299110000000000 39.4873830000000012, -0.6300829999999999 39.4873669999999990, -0.6304480000000000 39.4874330000000029, -0.6309630000000001 39.4872340000000008, -0.6314560000000000 39.4868530000000035, -0.6318430000000000 39.4861410000000035, -0.6320570000000000 39.4857769999999988, -0.6324010000000000 39.4855609999999970, -0.6325940000000000 39.4854290000000034)))"
    }
  },
  {
    "pk": 4,
    "model": "testing.track",
    "fields": {
      "price": 20.0,
      "name": "Pista 4",
      "area": "POLYGON ((-0.6278090000000000 39.4865050000000011, -0.6275940000000000 39.4862240000000000, -0.6283660000000000 39.4857930000000010, -0.6289460000000000 39.4858759999999975, -0.6291170000000000 39.4860579999999999, -0.6293110000000000 39.4863890000000026, -0.6292890000000000 39.4882769999999965, -0.6294610000000000 39.4883439999999979, -0.6297180000000000 39.4883439999999979, -0.6325720000000000 39.4868200000000016, -0.6334950000000000 39.4855779999999967, -0.6338170000000000 39.4857099999999974, -0.6329370000000000 39.4869860000000017, -0.6297400000000000 39.4887239999999977, -0.6292030000000000 39.4887239999999977, -0.6289460000000000 39.4885260000000002, -0.6287960000000000 39.4882610000000014, -0.6289030000000000 39.4864719999999991, -0.6288170000000000 39.4863069999999965, -0.6286670000000000 39.4861739999999983, -0.6284090000000000 39.4862070000000003, -0.6283660000000000 39.4861410000000035, -0.6279160000000000 39.4864060000000023, -0.6278090000000000 39.4865050000000011)))"
    }
  }
]
```

Json services (2)

```
localhost:8000/api/clients/

[
  {
    "pk": 1,
    "model": "testing.client",
    "fields": {
      "company": "Compa\u00f1ia 1",
      "name": "Cliente 1"
    }
  },
  {
    "pk": 2,
    "model": "testing.client",
    "fields": {
      "company": "Compa\u00f1ia 2",
      "name": "Cliente 2"
    }
  }
]
```

```
localhost:8000/api/mobile/

[
  {
    "pk": 1,
    "model": "testing.mobile",
    "fields": {
      "mac": "00:23:76:dc:39:95",
      "name": "HTC Legend 1"
    }
  }
]
```

```
localhost:8000/api/clients/

[
  {
    "pk": 1,
    "model": "testing.client",
    "fields": {
      "company": "Compa\u00f1ia 1",
      "name": "Cliente 1"
    }
  },
  {
    "pk": 2,
    "model": "testing.client",
    "fields": {
      "company": "Compa\u00f1ia 2",
      "name": "Cliente 2"
    }
  }
]
```

Siguientes pasos:

- Extensión de la vista cliente de la aplicación django.
- Generación de estadísticas web
- Desarrollo de la aplicación cliente Android
 - Generación de datos GPS
 - Consumo de los servicios de la aplicación web por parte de la aplicación Android.
 - Generación de web-services con la información móvil para ser consumidos por la aplicación web.