Provider

- Create Provider through this command: **curl -v -H "Accept: application/json" -H "Content-type: application/json" -X POST -d '{"provider":{"name": "surrey", "description": "University of Surrey testbed resources", "urn_prefix": "iot.surrey.uk", "user_id": 1}}' http://129.194.70.52:8000/providers**
- List of providers **http://129.194.70.52:8000/providers/index.json** #Experiments
- Create Experiment **curl -v -H "Accept: application/json" -H "Content-type: application/json" -X POST -d '{"experiment":{"title":"Students Location Pattern","description":"Please join us to this experiment. We are trying to map location pattern of students location during the second semester of the year.","start_datetime":"23-02-2015", "end_datetime":"28-02-2015","participation":"null","voters":"0" ,"ranking":"0", "interaction":"","status":"null","location":"Luleå", "radius":"6", "minimum_age":"18","maximum_age":"25","gender":"Any", "employment_sector":"Education","employment_status":"Student", "camera":"","accelerometer":"","magnetometer":"","location_sensor":"true"}}' 129.194.70.52:8000/experiments**
- Get list of Experiments **http://129.194.70.52:8000/experiments/index.json** # API for nodes

Get List of all nodes

curl -v -X GET http://129.194.70.52:8000/nodes/index.json

Get List of all nodes by provider

129.194.70.52:8000/nodes/nodes_by_provider.json?provider_id=2

Get List of all nodes by location(latitude,longitude)

Node with latitude=46.176388 and longitude=6.139959

Create a node:

```
**curl -v -h "accept: application/json" -h "content-type:
application/json" -x post -d ' {"node":{"name":"telosb
mote","phone_flag":"false","urn":"unige.a",
```

```
"latitude":"46.176388","longitude":"6.139959"}}'
129.194.70.52:8000/nodes**
```

- Set up API for resources
  Get list of resources by type

- Get List of all nodes
  curl -v -X GET http://129.194.70.52:8000/nodes/index.json
- Create a node:
  curl -v -H "Accept: application/json" -H "Content-type: application/json" -X POST -d '{"resource":{"ipso_index": 0, "function_set_id": 9, "node_id": 1, "resource_type_id": 49, "name":"test resource"}}' http://129.194.70.52:8000/resources
  #USER API ##List of all users: **http://129.194.70.52:8000/users/index.json**
- Create a user through the following command: **curl -v -H "Accept: application/json" -H "Content-type: application/json" -X POST -d '{"user":{"name": "Jean-Michel", "surname": "LeChaire", "address": "Rue de ssdds", "hometown": "LeLocle", "country": "Suisse", "gender": "m", "education": "PhD", "birthdate": "03/03/1930", "employment_sector": "Education", "employment_status": "Retired", "username": "jeanmichel", "password_hash": "", "email": "jml@iot.ch", "email_confirmed": "jml@iot.ch", "security_stamp": "", "phone_number": "0041787991232", "phone_number_confirmed": "0041787991232", "two_factor_confirmed": "false"}}' 129.194.70.52:8000/users**
- Get details of a user for a given ID **curl -v -X GET http://129.194.70.52:8000/users/1.json**
  #Reservation API ##List of all reservations
  curl -v -X GET http://129.194.70.52:8000/reservations/index.json
  ##Create reservation
  curl -v -H "Accept: application/json" -H "Content-type: application/json" -X POST -d '{"reservation":{"start_datetime":"23-02-2015 14:30:00", "end_datetime":"23-02-2015 14:50:00","reservation_key":"uMysLOdoTwSF8vllOaBtJqyo8OSm8Mcd2A__pk65qjqbrMwx6St80AA","use 1}}' http://129.194.70.52:8000/reservations #Resource_Reservation
  API
- Insert Resource_Reservation
  curl -v -H "Accept: application/json" -H "Content-type: application/json" -X POST -d '{"resource_reservation":{"resource_id":1,"reservation_id": 1}}' localhost:3000/resource_reservations
- Get list of all Resource_Reservations
  curl -v -X GET http://localhost:3000/reservations/index.json