

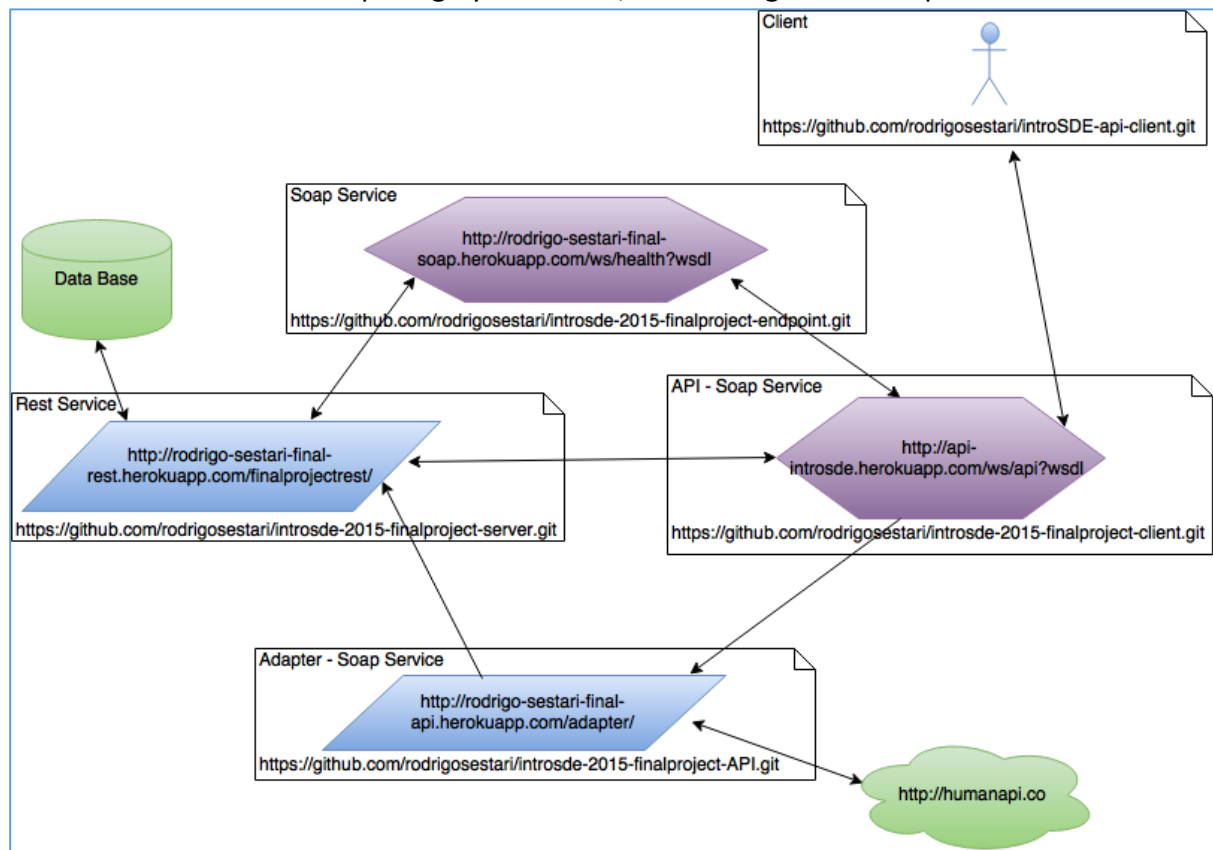
Introduction to Service Design and Engineering | University of Trento |

Name: Rodrigo Sestari

API: api-introsde.herokuapp.com/ws/api?wsdl

The API allows *register health and lifestyle measurements* such as steps walked during a day, heart rate, weight, sleeping hours, blood pressure, calories per meal etc. Is possible define lifestyle goals to achieve, such as *sleeping at least 8 hours a day, walking more than 5000 steps a day*. Have feedback on measures and on the progress toward achieving goals.

The API architecture is composing by 4 services, in the image bellow is possible is it:



Services

Service: <http://rodrigo-sestari-final-rest.herokuapp.com/finalprojectrest>

GitHub: <https://github.com/rodrigosestari/introsde-2015-finalproject-server.git>

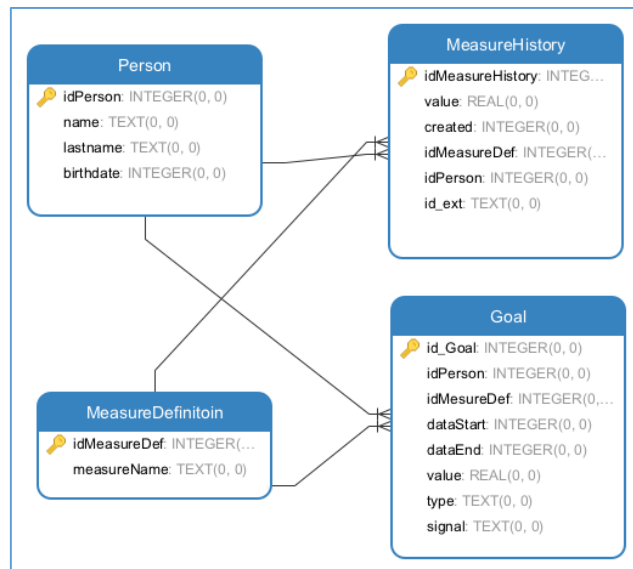
Type: Rest

This service contains the layers **Local Dataservices** and **Business Logic Services**. The function available are:

1. GET /person
2. GET /person/{id}
3. PUT /person/{id}
4. POST /person
5. DELETE /person/{id}
6. GET /person/{id}/{measureType}

7. GET /person/{id}/{measureType}/{mid}
8. POST /person/{id}/{measureType}
9. GET /measureTypes
10. GET /goal/{personId}
11. POST /goal/{personId}/{measure}
12. GET /goalValuation/{goalId}

In the image bellow is possible see the database diagram:



Person: Contains information's about people.

MeasureDefinition: Measurements types how weight, blood pressure.

MesuaureHistory: contains the measures, the field *id_ext* come used by extern data.

Goal: contains the goals generated by user.

Service: <http://rodrigo-sestari-final-soap.herokuapp.com/ws/health?wsdl>

GitHub: <https://github.com/rodrigosestari/introsde-2015-finalproject-endpoint>

Type: SOAP

This service come used to replaces some function from **rodrigo-sestari-final-rest.herokuapp.com**. The functions available are:

1. readPersonList()
2. readPerson(Long id)
3. updatePerson(Person p)
4. createPerson(Person p)
5. deletePerson(Long id)
6. readPersonHistory(Long id, String measureType)
7. readMeasureTypes()
8. readPersonMeasure(Long id, String measureType, Long mid)
9. savePersonMeasure(Long id, Measure m)

Service: <https://rodrigo-sestari-final-api.herokuapp.com/adapter/>

GitHub: <https://github.com/rodrigosestari/introsde-2015-finalproject-API>

Type: Rest

This service allow import information's about measurements(weight/bloodPressure) from <https://www.humanapi.co/> to **rodrigo-sestari-final-rest.herokuapp.com**. The function available are:

1. GET /BloodPressure/{personId}/{token}
 2. GET /Weight/{personId}/{token}
-

Service: <http://api-introsde.herokuapp.com/ws/api?wsdl>

GitHub: <https://github.com/rodrigosestari/introsde-2015-finalproject-client>

Wiki: <https://github.com/rodrigosestari/introsde-2015-finalproject-client/wiki>

Type: SOAP

This is the API interface, it brings together the main functions of the other three services, the functions available are:

1. createPerson(Person p)
 2. deletePerson(Long id)
 3. getGoals(Long personId)
 4. getGoalValitation(Long id)
 5. importMeasure(Long personId, String token, String type);
 6. readMeasureTypes()
 7. readPerson(Long id)
 8. readPersonHistory(Long id, String measureType)
 9. readPersonList()
 10. saveGoal(Long idperson, String measure, String datastart, String dataend, String type, String signal, String value)
 11. savePersonMeasure(Long id, Measure m)
-

GitHub: <https://github.com/rodrigosestari/introsde-2015-finalproject-client>

Client

```
Rodrigo Joni Sestari
1 - List id all People
2 - Enter person
3 - Create person
4 - Delete person
e - exit
2
Person id: 2
1 - get measure types
2 - get measure history
3 - save measure
4 - get Goals
5 - get goal valitation
6 - create goal
7 - connect Adapter
e - exit
```

The application client implements the call API. Is possible create/delete a person, get the measures history and types.

Was implemented also the goals, is possible get/create goals and have a feedback from goal on progress.

Is possible also import measure from adapter (<http://humanapi.co/>)
