# Project

## T-health

### Introduction: (Explain the framework of the project and the problem to be solved)

Nowadays we need to give better assistencial services with less resources. One way can be use telematic services. if we can automate same services without risk, we'll get more time in others. From few years ago to now have appeared a new kind of devices: "the wearables". Now, we can running having a precise monitoring of our life constants. Heart rate, blood pressure or temperature are simple to record. Also we can combine it with other non health sensors like accelerometers or GPS. And all using a very cheap, however not simple device. At 2018 we can speak about wrist computers

### Project Brief: (Describe the project specifying the main objective and its outcomes, design specifications, etc...)

The main goal of this project is to design and if we can to build, an automatic health test system. To do it, we must follow the next indications:

- For the project we must select one commercial device. It must be non expensive, but with enough power to do what we want. It must be smartphone dependant or standalone.
- the data we obtain, we'll must send to a "sentilo" class server. Sentilo is a sensor data acquiring system. It's "easy" to use and open source. We can get virtual images at the web.
- Merging this device data, we must design what kind of services we can give. Services like "fall test" for the 3rd age people or early heart alert for people with
cardiac problems can be an example.
– If we'll have enough time, build a prototype system

### Company

<table>
<thead>
<tr>
<th><strong>Name:</strong></th>
<th>Neàpolis</th>
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<tbody>
<tr>
<td><strong>Address:</strong></td>
<td>Rambla de l'Exposició, 59, 08800 Vilanova i la Geltrú, Barcelona</td>
</tr>
<tr>
<td><strong>Contact person:</strong></td>
<td>Josep Farré (company supervisor)</td>
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### Project team:

<table>
<thead>
<tr>
<th><strong>Number of students:</strong></th>
<th>Ideally 5.</th>
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| **Students speciality:** | X Business Management  
X Mechanical engineering  
☐ Electrical engineering  
X Electronics engineering  
☐ Chemical engineering  
X Computer engineering.  
X Telecommunications engineering.  
X Design.  
X Life Science.  
☐ ............ |

At least one programming, one electronics, and one design oriented student in the team.