

STUDYROOM

TRENTOSE2K14

#### WHY

Students are always asking for empty places to study in. We make you save time and study better.

No more worries about wasting time!

#### **WHAT**

StudyRoom is a innovative web application that shares in real-time if the rooms are full or empty. You can stop running all the university long in order to decide where you will study.

#### HOW

People share if the room they are in is busy or not. Social share makes the app enjoyable and reliable.

#### DATA INSIGHT

80% stay in university after the end of the lessons.

70% would try to use an app like this.

40% stay in the library 60% in the rooms.

4 is the mean number of people in a group of study.

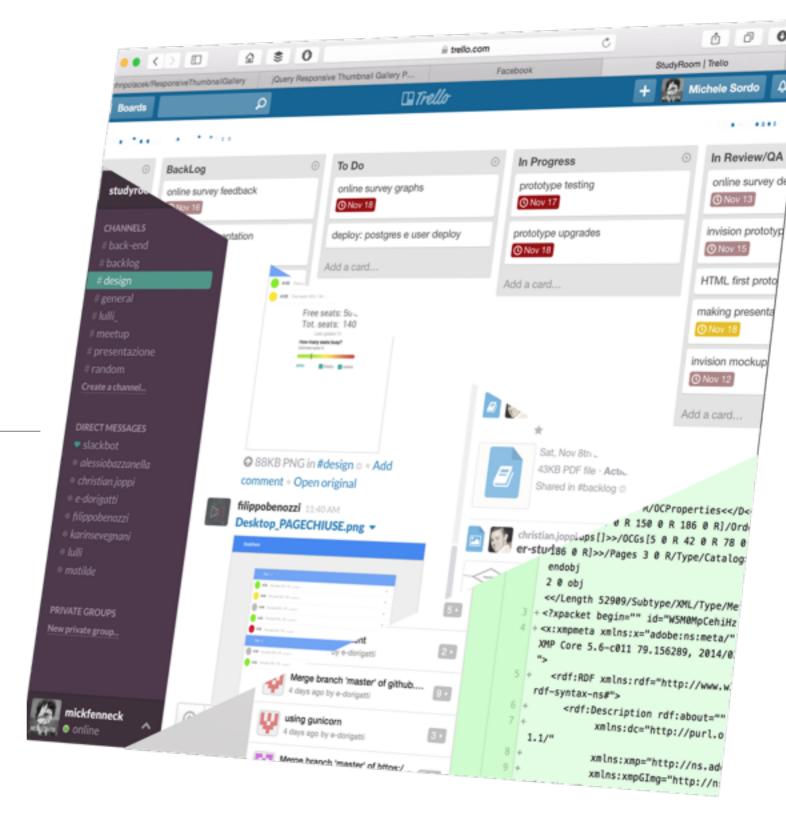
We've built the prototype driven by the feedback of the users, with the users.

#### TECHNOLOGY INSIGHT

Organization
Prototype Design
Frontend
Backend

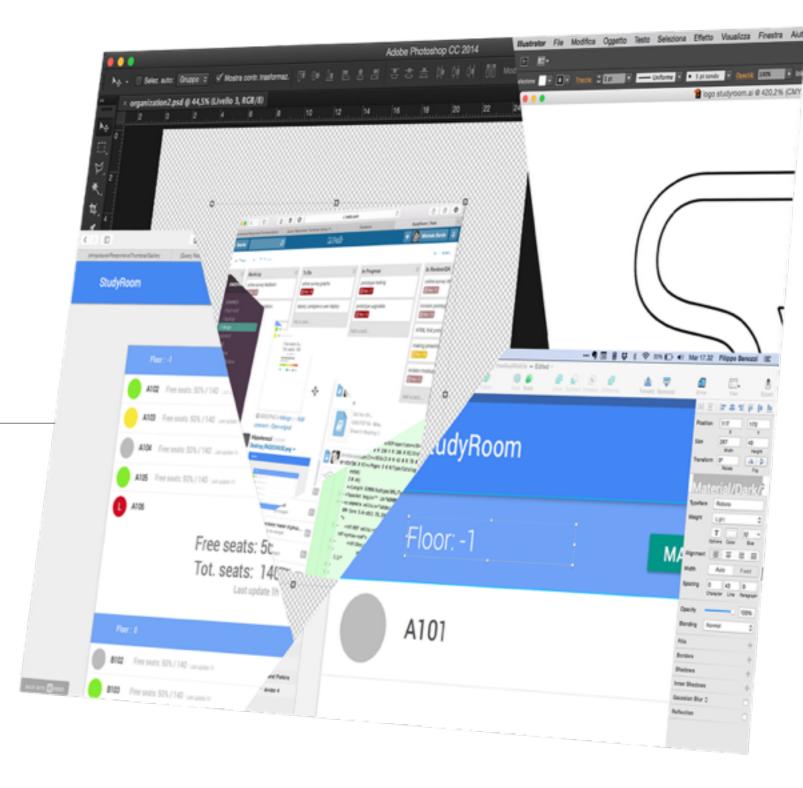
### Organization

Slack Trello Git Github



## Prototype Design

Adobe Photoshop Adobe Illustrator Sketch Invision



#### Frontend

Html5
Css3
Less
Javascript
jQuery
Bootstrap

```
PARK_Site - [ master - ]
                                               <a class="navbar-brand navtitle" href="#home"><font color=#</pre>
                                       <div class="collapse navbar-collapse" id="bs-example-navbar-collaps</pre>
   .titleHome:
font-fami<sup>SS</sup>
                                           <a href="#aboutMe" title="about me">aboutMe</a>
      font-size:
      letter-spacing
      margin-top: 3%;
                                              <a href="#contactme" title="contactme">contactMe</a>
     font-family: "hasteristico
     font-size: 30px;
                                          <a href="./it/index.html" title="italiano">IT</a>
     letter-spacing: 4px;
     line-height: 0%;
                                              <a href="./index.html" title="english">EN</a>
     color: rgba(240,240,240,0.7);
 .arrow[
     width: 60px;
    margin-top: 10%;
 .arrow:hover{
                                                  /logohome.png" alt="Logo_Home" class="imgHome"
    width: 68px;
                                                    'eHome flipInX"><f
    margin-top: 18%;
                                                                      ont color=#db1734>Phil
                                                      'le">Graphic Designer <font color=#d
                                                            src="img/arrow.png" class="
.title_aboutme{
   font-family: code-light, helvetica-light, sans-serif;
                                                                               ..bs.dropdown', relatedTar
   text-align: center;
                                                                          Orrigger('hidden.bs.dropdown',
   padding-top: 10%;
   color: w
.subtitle_aboutme{
                                                                s.attr('data-target')
  font-family: code-light, helvetica-light, sans-serif;
                                                          $this.attr('href')
  margin: 45 20% 1% 20%;
                                                          selector && /#[A-Za-z]/.test(selector) && select
  text-align: center;
  color: white;
                                                   $parent && $parent.length ? $parent : $this.parent()
 font-family: helvetica-light, arial, sans-d
                                           // DROPDOWN PLUGIN DEFINITION
```

#### Backend

Amazon AWS
Nginx
gunicorn
postgresql
docker
python
django

```
ubuntu@ig-172-31-30-103; ~
                                                                                                                                         Selecting previously unselected package postgresql-9.3.
                                                                                                                                         (Reading database ... 61864 files and directories currently installed.)
                                                                                                                                        Preparing to unpack ... /postgresql-9.3_9.3.5-Bubuntu0.14.04.1_and64.deb 
Unpacking postgresql-9.3 (9.3.5-Bubuntu0.14.04.1) ...
                          grip, disable 'MSZE [1-6]']. '
                          gris, types text/plain text/btml text/xml text/css
                                                 text/comma-separated-values
                                                                                                                                        Processing triggers for postgresql-common (154)
                                                 text/javascript application/x-javascript
                                                                                                                                       Building PostgreSQL dictionaries from installed myspell/humspell packages.
Removing absolete dictionary files:
                                                application/atom=xml;
                                                                                                                                       Setting up postgresql-9.3 (9.3.5-Gubuntu0.14.04.1)
                       server [
listen 80 default;
                                                                                                                                       update-alternatives: using /usr/share/postgresql/9.3/man/man1/postmaster.1.gz
                                                                                                                                       are/man/man1/postmaster.1.gz (postmaster.1.gz) in auto mode
                         client_max_body_size 40
                                                                                                                                       * Starting PostgreSQL 9.3 database server
                         keepelive_timeout $
                                                                                                                                     root@ip-172-31-30-103:/home/ubuntu/docker# apt-get purge postgresgl-9.3
                                                                                                                                    Reading package lists... Done
                                                                                                                                   Building dependency tree
Reading state information... Dune
                            altas /var/waw/frontend/
                                                                                                                                   The following packages will be REMOVED:
                                                                                                                                    postgresql-9.31
                         elies /ver/mem/djengs-static/;
                                                                                                                                  0 upgraded, 0 newly installed, 1 to remove and 4 not upgraded.
                                                                                                                                 After this operation, 11.6 MB disk space will be freed.
                                                                                                                                 |Do you want to continue? [V/n] y
|(Reading database ... 61969 files and directories currently installed.)
                    location /api (
                                                                                                                          67% Removing postgressl-9.3 (9.3.5-Bubuntu0.14.64.1)
                                                                                                                                 * Stopping PostgreSQL 9.3 database server
           86_64) AppleMebEit/S37.36 (KHTML, like Gecko) (hrome/38.0.2125.122 Safari/537.36"
                                                                                                                               Purging configuration files for postgresql-9.3 (9.3.5-Oubuntu0.14.64.1)
         77.8 8.1 - - [19/Nov/2014.14.39.20 +0100] "GET /api/ HTTP/L 0" 404 - "-" "Mozilla/5 0 (X11; Linu|Dropping cluster main.

x86_64) AppleWebNiz/S37.36 (RMINL, like Gecko) Chrome/38.0.2125.122 Safari/S37.36" |Processing triggers fo
                                                                                                                             Processing triggers for postgresql-common (154)
          7.8.0 1 - - [19/Nov/2014:14:33:23 +0100] "GET /api/aule HTTP/1.0" 200 - "-" "Mozilla/5.0 (X11;
                                                                                                                            [Building PostgreSQL dictionaries from installed myspell/hunspell packages.
        nor x86_64) Applementt/537.36 (KMTML, like Gecko) Chrome/38 0 2125 122 Safari/537.36"
                                                                                                                             Removing obsolete dictionary files:
        7.0 0 1 - - [19/Nov/2014 14 33 29 +8100] "GET /apt/eule/1 HTTP/1 0" 200 - "-" "Mazille/5 0 (X11|root@tp-172-31-30-109 /home/ubuntu/docker# docker build
        (inux x88,64) Applementit/537,36 (XXTPL, like Gecko) Chrone/38.0 2125 122 Safari/537.36°
                                                                                                                            Sending build context to Docker daemon 16.38 kB
       7 0 0 1 - [15/Nov/2014 14:39:31 +0100] 'CET /api/aule/2 HTTP/1:0' 200 - "-" "Mozilla/5:0 (X11|Sending build context to Docker daemon unux x86_64) AppleMebilt/537:36 (KHTML, like Gecko) Chrone/30:0 2125 122 Safari/537:36" | Step 0 : FROM ubuntu 14:04
      8 8 1 - - [19/Nov/2014 14 33 32 +0100] "GET /api/aule/3 HTTP/1 0" 200 - "-" "Mozilla/5 0 (X11| ---> 550664266436
     Linux x86_64) AppleMebtit/537.36 (EMTML, like Gecke) Chrone/38 0 2125 122 Safari/537.36"
                                                                                                                        Step I : ROW apt-get update && apt-get install -y -q postgresql-9.3
    7.0.0 1 - - [15/Nov/2014 14 33 34 +0100] "GET /api/eule/4 HTTP/1 0" 200 - "-" "Mozilla/5 0 (X11] ---> Using cache
    Linux x86_64) Applementit/537.36 (AHTML, like Gecko) Chrome/38 0 2125 122 SaFari/537.36*
    ' 8.8.1 - [19/Nov/2004-14-33-37 +0100] 'GET /aps/aule/5 HTTP/1.0" 200 - "-" 'Mozilla/5.0 (XII|Step 2 : RUN su postgres -c "createuser -d django"
  linux x86_64) Applementit/537.36 (AMIML, like Gecko) Chrome/38.0.2125.122 Sefari/537.36*
  7.0.0.1 - - [19/Nov/2014-14-33-39 +0100] "GET /ept/eule/6 MTTP/1.0" 200 - "-" "Mozilla/5.0 (X11)
                                                                                                                          ---> Running in 6bf4d7ab8851
  inux x85_64) AppleMebNit/S37.36 (KHTML, like Gecko) Chrome/38.8.2125_122_Safari/S37.36*
Linux X8E_64) Applemental/S37.36 (Aminc. like Gecks) Chrome/38.0.2125.322 Sereri/S37.36

7.0.0.1 - [19/Nov/2014.14.33.42 +0100] "GET /apt/aule/7 HTTP/1.0" 200 - "-" "Mozille/5.0 (X11)

In the server running locally and accepting

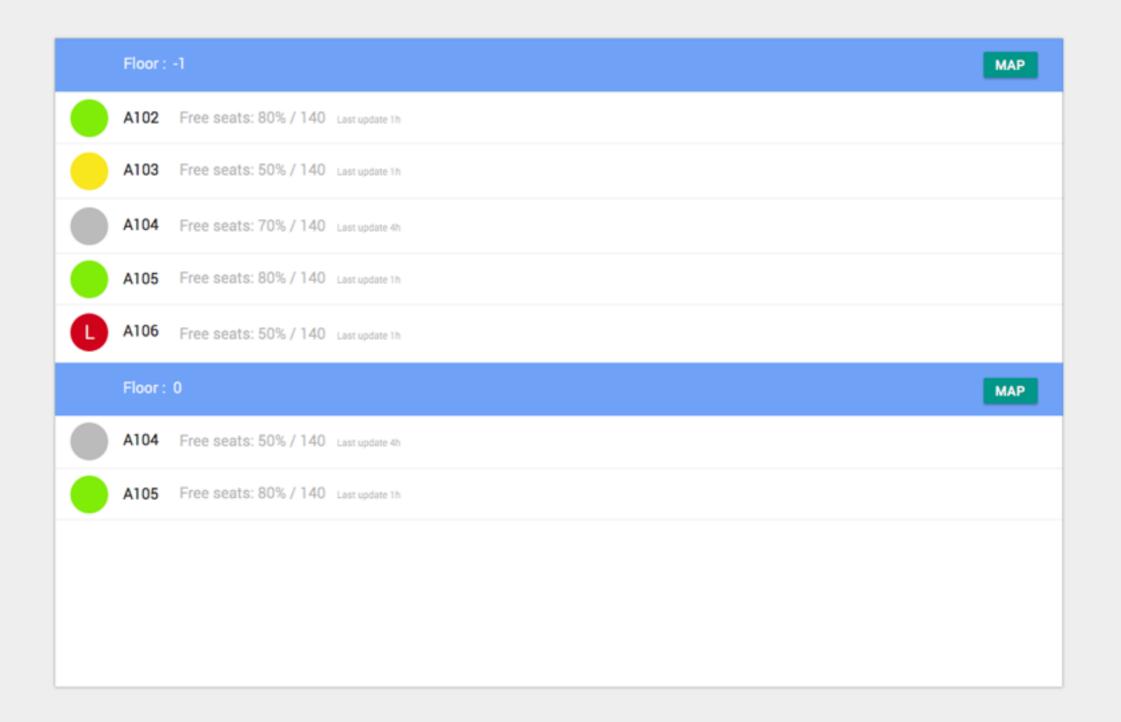
6.0.1 - [19/Nov/2014.14.33.44 +0100] "GET /apt/aule/8 HTTP/1.0" 200 - "-" "Mozille/5.0 (X11)

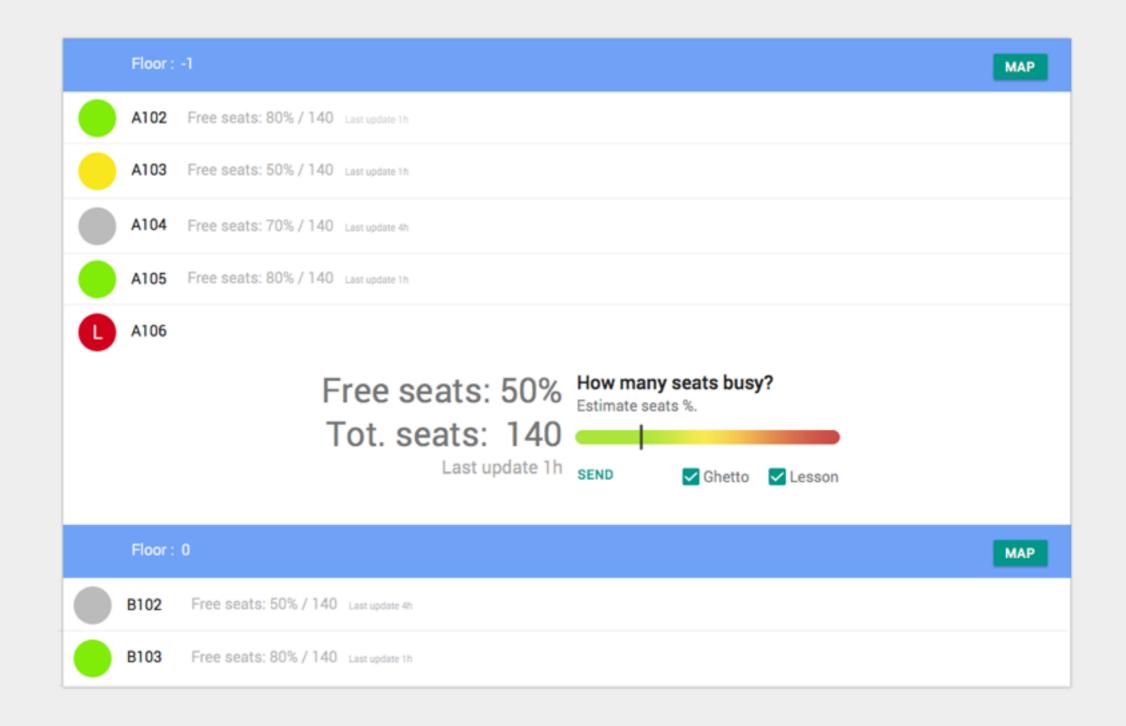
6.0.2 - [19/Nov/2014.14.33.44 +0100] "GET /apt/aule/8 HTTP/1.0" 200 - "-" "Mozilla/5.0 (X11) [2014/11/18 12.20.44 The command [/bin/sh -c su postgres -c "createuser -d dyango"] returning locally and accepting

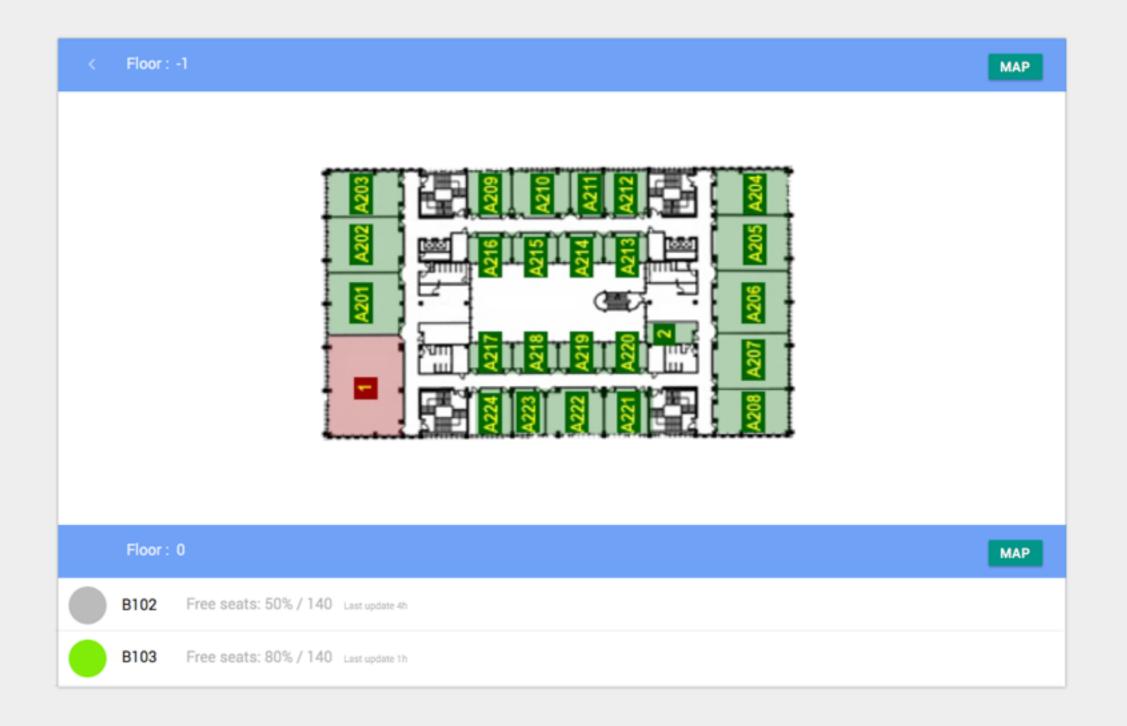
6.0.2 - [19/Nov/2014.14.33.44 +0100] "GET /apt/aule/8 HTTP/1.0" 200 - "-" "Mozilla/5.0 (X11) [2014/11/18 12.20.44 The command [/bin/sh -c su postgres -c "createuser -d dyango"] returning locally and accepting
Lnux x86_64) AppleMeBKIt/537 36 (KHTML, like Gecko) Chrome/38_0_2125_122_SeFeri/537_36*
                                                                                                                     rootgip-172-31-30-103:/home/ubuntu/docker#
```

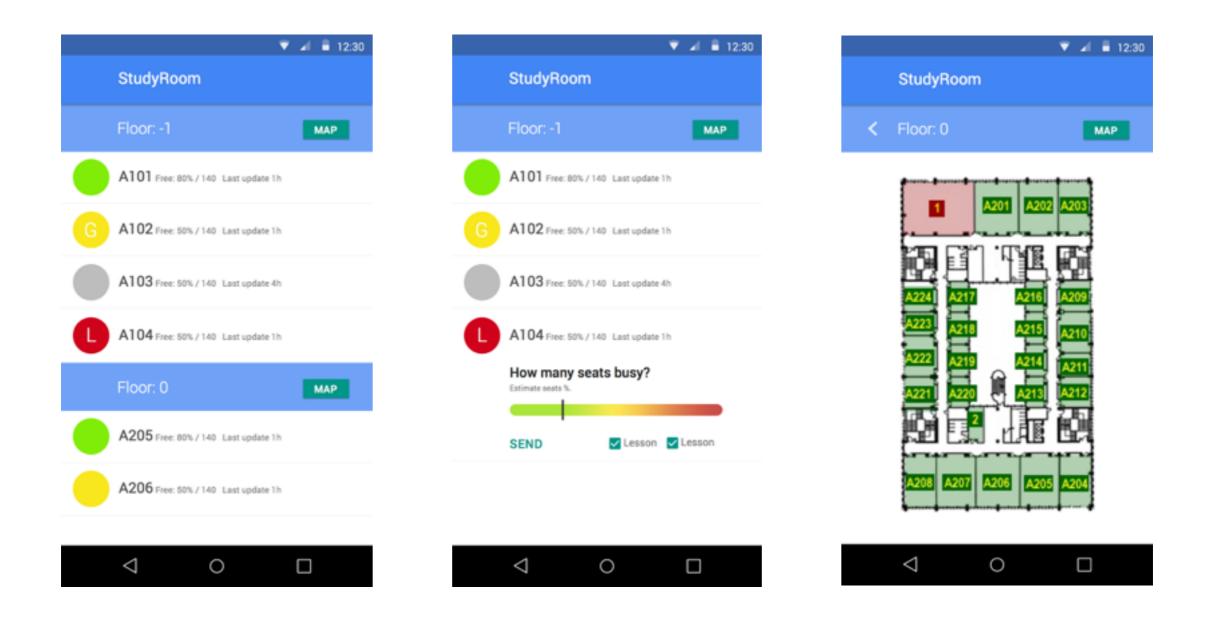
#### LET'S SEE THE

# PROTOTYPE



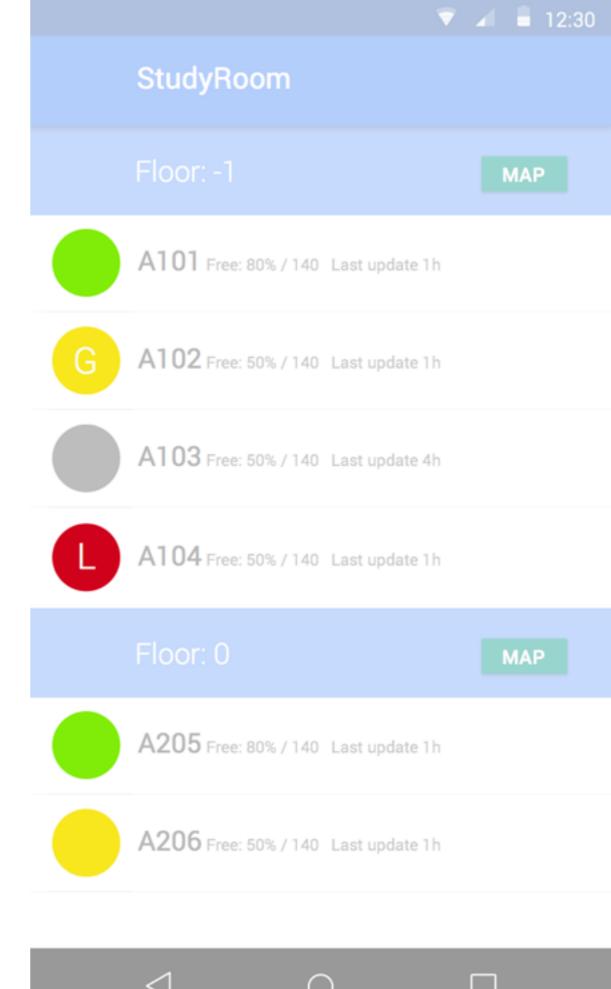






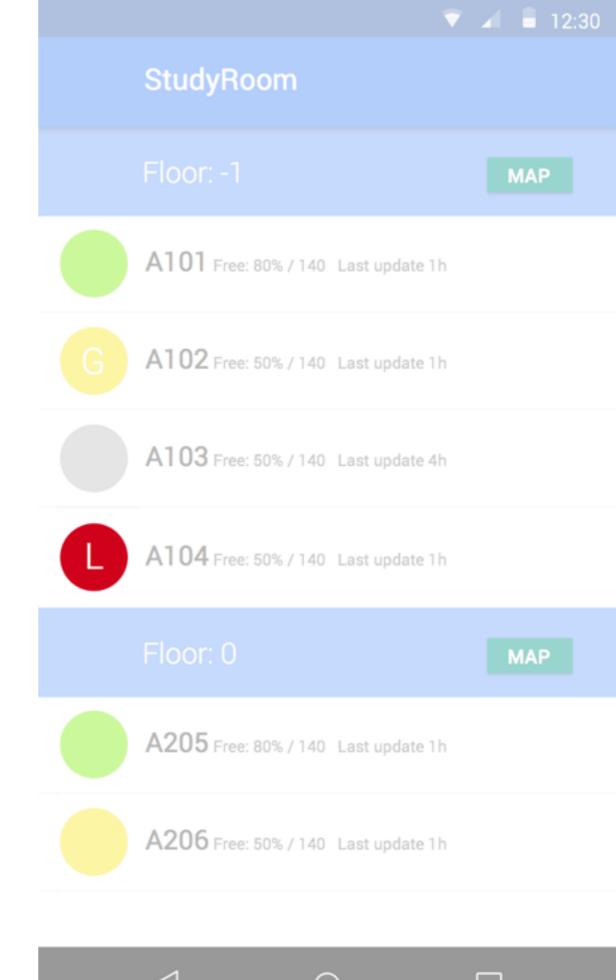
#### **USERFRIENDLY**

We have chosen the color in order to describe if the room is empty or not.



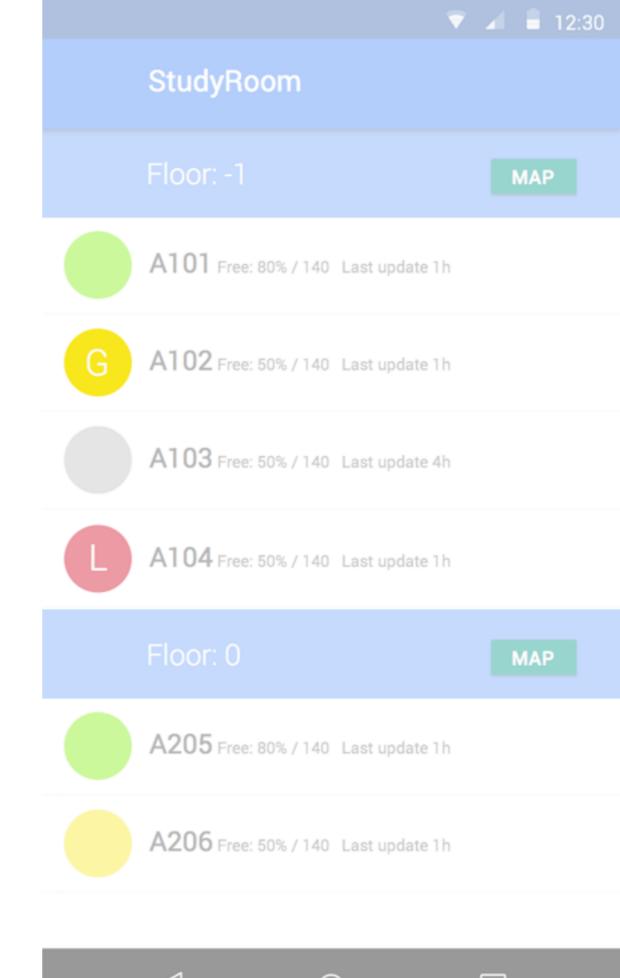
#### **SMART**

Know if there is a lesson in the room.



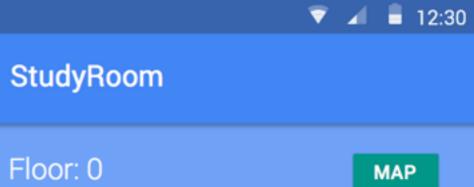
#### **GHETTO**

Ghetto means that the people inside the room are not silent and you may get distracted by them.



### QUICK

Visualize where is the room you are looking for.













# TIME = \$

#### LOGIN FREE

Ready to use!
People need to save time!
No time wasted with pointless logins!

All activities are tracked by an auto-assigned id that controls if a device is giving valuable feedback.

### OPENSOURCE REST API

Shared with everyone, to let you develop your own application. Take inspiration from our work! You just have to credit StudyRoom.

http://studyroom.noip.me/api/aule http://studyroom.noip.me/api/posti









#### Django REST framework v 2.4.4

Posti List

#### Posti List

GET /api/posti

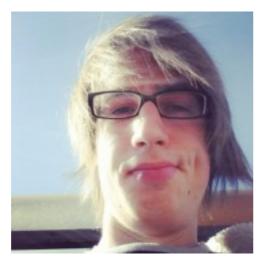
```
HTTP 200 OK
Content-Type: application/json
Vary: Accept
Allow: GET, POST, HEAD, OPTIONS
        "timestamp": "2014-11-17T18:05:56.772Z",
        "posti_liberi": 90,
        "aula": 4,
        "chaos": true,
        "lesson": false
        "timestamp": "2014-11-17T18:05:56.778Z",
        "posti_liberi": 5,
        "aula": 10,
        "chaos": false.
        "lesson": true
        "timestamp": "2014-11-17T18:05:56.786Z",
        "posti_liberi": 70,
        "aula": 2,
        "chaos": true.
```

"lesson": false

#### THE TEAM



MICHELE SORDO project manager, designer



FILIPPO BENOZZI designer frontend developer



EMILIO DORIGATTI data manager backend developer



CHRISTIAN JOPPI database architect backend developer



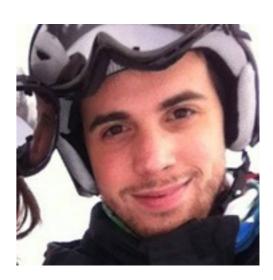
KARIN SEVEGNANI frontend developer



LUISA ZURLO survey responsible



MATILDE LESO survey responsible



ALESSIO BAZZANELLA backend integration