

Sede Regional San Carlos

Computer Engineering Department

Componentes y comunicaciones en internet

Professor: Dennis Valverde

First programmed project: Audits

Alonso Vega, 201042592  
Gabriel Fallas, 201030952

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# Problem Description

# Problem Solution

## Design

The first part was the design. We had to think the way in which we wanted to show the four views. As soon as you enter the site you find the Login view, with just a few controls to enter the username and password, and click or tap a button to continue.

Next we needed to show a Main view. In this one, there should be two options: one for entering a new audit, and another one to navigate to the history view. The creation of a new audit would be through a dialog window. Here you could choose a headquarters, then a sub-list of buildings. Subsequently, a list of rooms grouped by floor would show up whenever a building is chosen. Finally, the button to create the audit will become enabled. Once clicked/tapped, the button will navigate to the Audit View to be modified.

In the Audit view you can see a list of assets. Each one is editable though a series of controls, including: a check to make sure the asset is in the room, a slider to select a score from 1 to 10, a switch to select a state (good or bad) and a comment. The audit can also save a comment.

From the History view, you can see the list of all the audits that are pending and completed. The list also shows relevant information about every audit, including the date it was created and the place (headquarters, building and room). From this list, the user can navigate to each audit. There’s also the option of removing it. In touch-supporting devices, the slide left or slide right gesture will prompt the user, while when there’s no touch support, a button will be shown.

## Data

Everything is saved within a JSON object, declared in the audit JavaScript file. The structure is as follows:

* Headquarters
  + Name
  + Buildings
    - Name
    - Rooms
      * Name
      * Floor
      * Assets
        + ID
        + Score
        + State
        + In-room
        + Comment

The exception to this is the audit list, which is declared separately. Each audit has information about the Room it is assigned to.

## Non-functional requirements

The software is developed with mobile support by using JQuery Mobile library, version 1.3.0.

# Result Analysis

# Conclusions and Recommendations

# Cited literature