

## Web Project

### Students:

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### General Characterization

Target: Our project is based on a client web page for an Hotel. The project has been written in HTML5, CSS and JS.

The page is divided in two parts:

- Clients
- Workers

**Clients:** The client side contain 2 different pages:

1. *Index.html*: Here the client is able to book a room, see pictures of the hotel and send messages to a Hotel worker.
2. *Rooms.html*: Here the client can see a general picture and details of the rooms and book one as well.

**Workers:** The worker side contain 2 different pages:

1. *admin.html*: Here a worker that has been registered by an administrator or an administrator would be able to sign in to the woker/admin dashboard.
2. *dashboard.html*: Here the user would be able to see all kind of features depending on his worker status.
  - Admin features:
    - 1- See a profit chart at the beginning of the page
    - 2- See occupancy chart and stats.
    - 3- See and delete customers on database.
    - 4- Add and delete new workers to the system.
    - 5- Watch room details and the booking history of each room.
    - 6- Read, delete and answer messages that were received from main.html
  - Normal features:

Normal worker will have all the features said above except of points 1 and 4.

## Technical Characterization

### index.html:

Index page is divided in 8 parts:

#### 1- Header:

- Logo: By clicking on it take us to the index.html.
- Book a room: Click scroll us to the booking part.
- Rooms: Click take us to rooms.html.
- Images: Click scroll us to the image grid.
- Contact us: Click scroll us to the Contact us part.

#### 2- Image Carousel: Bootstrap carousel will show three pictures. While hovering the mouse on it, the carousel will stop on the specific image.

#### 3- Booking part: The client will be able to make a booking reservation. By pressing on the check in and check out date it will appear a third party calendar(see on third part api's) where the client will enter his desired date. By pressing on adults and childrens select box the client will choose the amount of people on the room. By pressing on "Check availability" button it will open a multiple collapse (see on Bootstrap doc) with the room cards.

#### 4- Room cards: When the client press on "Check availability" button, the system will check the availability on every type of room. In case that any type is full on the chosen date, the card of the room that has no availability will be blocked. The rest will be available for continuing the reservation. After clicking "Book now" we will be transferred to rooms.html on the corresponding room type with the previously entered details.

#### 5- Welcome Part: A welcome note.

#### 6- Picture Grid: A picture grid made with all kind of Bootstrap classes.

#### 7- Send message Part: The client will be able to send a message to the hotel management. When any of the fields are not enter, the system will show an error message to the client.

## 8- Contact us Part: All kind of details of the company.

### **Rooms.html:**

Rooms page is divided in 4 parts:

1. **Header:** Same as in index.html
2. **Clickable carousel:** This time we chose for a different carousel where you can pass the pictures manually.
3. **Rooms cards:** Each room contains the picture of the room and his details.  
By clicking on "Book now" link a modal will be open.
4. **Booking modal:** The booking modal contains three parts. Details, Pay and Details of your book.  
In case you don't enter some of the details or the dates are not valid the system will show an alert.  
Each time the client complete any of the stages in the modal, the new stage is going to be available for continuing the process.  
When the booking is finished all the data is going to be entered on the database.

### **Admin.html:**

The admin.html page has an only login card for a already registered user to login. When logging in, we will be transferred to the dashboard.html page with the corresponding permissions. The login mechanism has been implemented with firebase authentication.

### **Dashboard.html:**

Dashboard page is divided in 5 parts:

1. **Charts:** The first thing the worker will see when entering to the dashboard. This charts are also from a third party api.  
The "Profits on current year" chart will change dynamically depending on reservations made on each month.  
The "Occupancy on each type of room right now" chart will change dynamically depending on the amount of rooms that are occupied right now on the hotel depending on the room type.  
"Occupancy on hotel" card: Will change dynamically in base of the current occupation on the hotel.  
"Number of clients on system" card: Shows the amount of clients ever booked any kind of room on system.

“Number of messages” card: Shows amount of messages received.

2. **Clients**: The worker will be able to see all clients details on a bootstrap table form and it will be able to delete any of the clients from database. This table is going to refresh automatically.
3. **Rooms**: The worker will be able to see all room details on the database on a bootstrap table form.  
By clicking on “+”, you will be able to see all booking history of the selected room.
4. **Manage Users(Only for admin users)**: The worker will be able to see all the workers on the system and he will be able to sign up a new worker or delete a worker.
5. **Messages**: Implemented with bootstrap collapse class. The worker will be able to read all message on the database, delete messages and answer them.  
While answering a message, a mail program(ex. Outlook) will open with the email to respond.

## Database Characterization

We have choose Firebase for our database use.

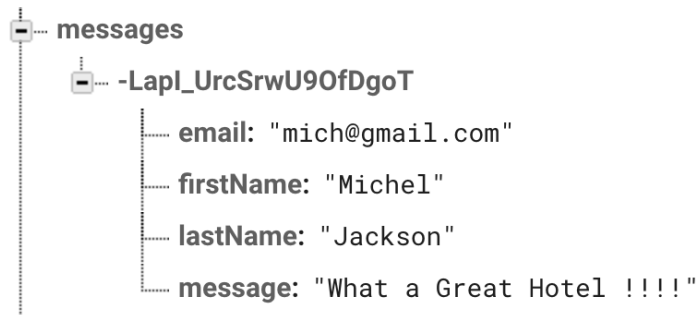
Our database is divided on 5 branches:

### Clients:



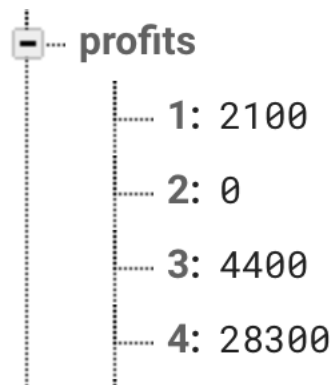
Each time a book is confirmed, the system will add a new branch to Clients with the data that the client entered.

### Messages:



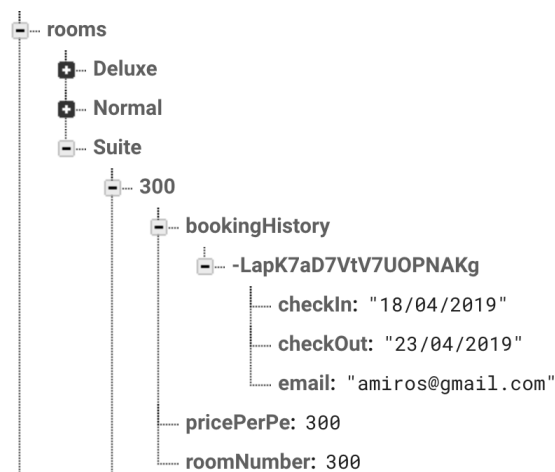
When a message is send, it will add a new branch to messages with the following data.

## Profits:



Each time a reservation is made, the system will check the check in date that it has been made and update the profit on the corresponding month.

## Rooms:



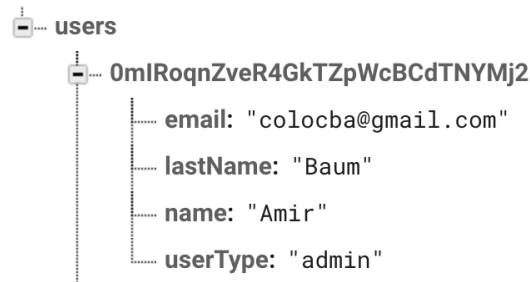
There are three types of rooms:

Each type of room have a room number branch.

Each room number have his own details such as price per person, room number and a branch of booking history.

Each time a reservation is made, the system checks which room is available, and it will enter the check in, check out and email of the client that has made the reservation.

## Users:



When a new user is sing up by and admin, the system will make a new branch with all the user data including his type.

## Third party API'S

- Font awesome: Different Icons API
- Bootstrap
- JQuery
- PureJSCalendar: API for a calendar UI.
- SweetAlert: API for stylish alerts.

## Github links

Source code: [https://github.com/colocba/coolHotel\\_WebProject](https://github.com/colocba/coolHotel_WebProject)

Html links: [https://colocba.github.io/coolHotel\\_WebProject/index.html](https://colocba.github.io/coolHotel_WebProject/index.html)  
[https://colocba.github.io/coolHotel\\_WebProject/admin.html](https://colocba.github.io/coolHotel_WebProject/admin.html)

User for project checking with admin permissions:

User: [eiran@gmail.com](mailto:eiran@gmail.com)

Password: eiran123

Thank You ! 😊