# End of degree project

## Introduction

Welcome to the repository for my end of degree project. Here you will find an app (Front-end based on Angular and back-end on Spring Boot) to audit companies. Auditors can audit companies with questionnaires, manage audited company employees.

The webpage can be found on <https://app-upaudit.firebaseapp.com/index>

You can find me on [Linkedin](https://www.linkedin.com/in/anderlakidain/) or [Github](https://github.com/lakidain) and ask me any doubt

### Repository content

* [Front-end](https://github.com/lakidain/TFG/tree/master/auditorias-app): Front-end based on **Angular**. Used Boostrap
* [Back-end](https://github.com/lakidain/TFG/tree/master/spring-boot-backend): Back-end based on **Spring Boot**. Used AWS S3, OAuth 2.0 and Itext.
* [Database](https://github.com/lakidain/TFG/tree/master/Resources): Prepared **Mysql** database filled with all the data needed to test the deploy

### Webpage access

On the database provided you can use the following username-password to enter the application

- **Audit Boss**: 18273634A-qwerty

- **Audit Employee**: 39405948Z-qwerty

- **Client Boss**: 65746353Y-qwerty

- **Admin**: 11111111Z-123456

### How to deploy

Here I describe the steps to deploy the solution like I did, it's not the only way, for example you can use an EC2 Amazon Web Service machine.

#### Deploying Back-End

##### 1. Heroku configuration

1. Create or use an active account on Heroku.
2. Create New App and install Heroku CLI.
3. On the app resources -> Addons add JawsDB as a resource.

*2. Create AWS account*

1. Create or use an active account on Amazon Web Service.
2. Create a new user with S3 privileges.
3. Create a new bucket on Amazon S3, select the region and put public privileges. After that create two folders pdf and images.

*3. Preparing Deploy*

1. Open Windows PowerShell and use in order this commands

* cd Project Directory  
  heroku login  
  heroku git:remote -a nameProjectOnHeroku  
  heroku plugins:install java  
  heroku addons:create jawsdb  
  heroku config:get JAWSDB\_URL
* On the last step you will get your DB connection settings.

*4. Preparing application.properties*

There is an application.properties on the project. You must change the following parameters

* spring.datasource.url=Obtained with JAWSDB\_URL
* spring.datasource.username=Obtained with JAWSDB\_URL
* spring.datasource.password=Obtained with JAWSDB\_URL
* amazon.accessKey=Obtained when creating Amazon S3 user
* amazon.secretKey=Obtained when creating Amazon S3 user
* amazon.bucketRegion=Look for the link of your region. Paris is eu-west-3
* amazon.bucketName=Name of the bucket create on Amazon S3

##### 5. Deploy backend

Use following commands

.\mvnw clean package  
heroku jar:deploy

Using the url, username and password you can connect to the database using for example Phpmyadmin and load data. \_\_\_

#### Deploying Front-End

Programming on Atom IDE and having the command prompt open execute

ng build --prod

This will create a new dist folder wich contains javascript code. Open dist and create a public folder, putting all on this folder. Next step will be creating a Firebase account and creating a new project. We come back to Atom and introduce the next commands on prompt (been on dist folder)

npm install -g firebase-tools  
firebase login  
firebase init  
firebase use --add  
firebase deploy