

ALEXANDER SOUZA

APPLIED PROJECT AND MINOR DISSERTATION

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Supervisor

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Application deployed on AWS and Heroku:

http://54.210.4.37/mycareer/

GitHub

https://github.com/alexpt2000gmit/4Year_MainProject_MyCareer

YouTube video:

https://youtu.be/6NChE0NcoLw



THE PROJECT





MyCareer is a system that fully supports the recruitment and selection process of HR, provides an internal system to manage resumes, jobs, and a tool that can be integrated with the current system of the company that will make the company's own website in an online recruiter of candidates.

MyCareer is an application that, in addition to being scalable, uses the best in development, appearance, security and robustness frameworks.





Applicants

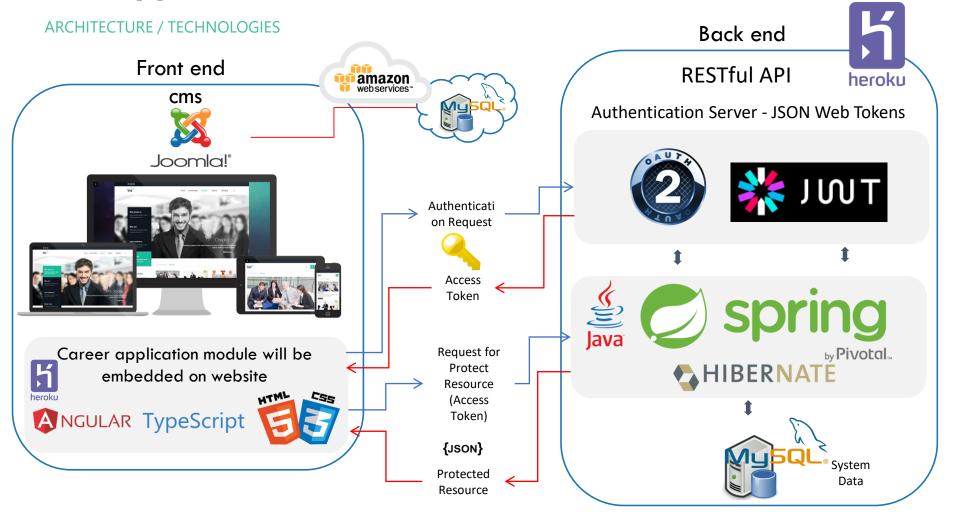
- View available jobs.
- Apply for the selected work through the website.
- Submit the email to the job alert receipt





Administrator

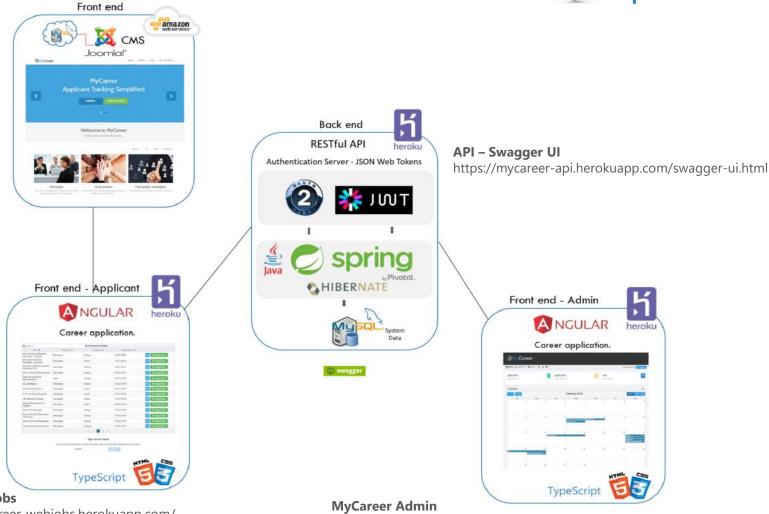
- Manage all available jobs.
- View all applicants.
- View applicants per job.
- The process of evaluation of the candidate in the act of the interview.
- Assessment with technical questions for candidates, divided by topics.
- Manage schedule for interviews and other appointments.



Website

http://54.210.4.37/mycareer/



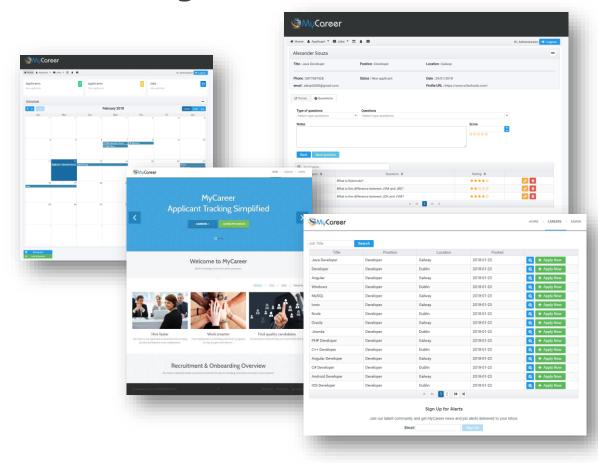


MyCareer Jobs

https://mycareer-webjobs.herokuapp.com/

https://mycareer-webadmin.herokuapp.com/

Technologies



For this project I will use various technologies, techniques and tools, such as:

IDE - Development environment

• Spring Tool Suite / Visual Studio Code

API - Back end

- Spring Security
- JSON Web Token (JWT)
- Spring Boot
- Maven
- Hibernate
- Flyway
- Swagger UI

Database Environment

MySQL

Front end

- Joomla
- HTML5 and CSS
- Angular 4
- PrimeNG is a collection of rich UI components.

Cloud services

- AWS
- Heroku

Website

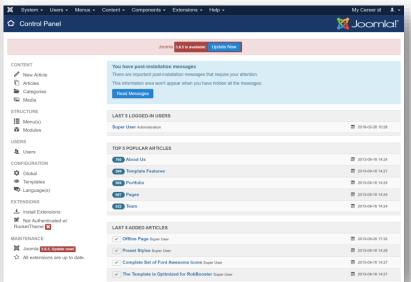
Joomla



The system also demonstrates how the system can also be used on the company's current website, in which case it has been used by CMS Joomla, a powerful website development tool that allows users to manage website content from a backend.

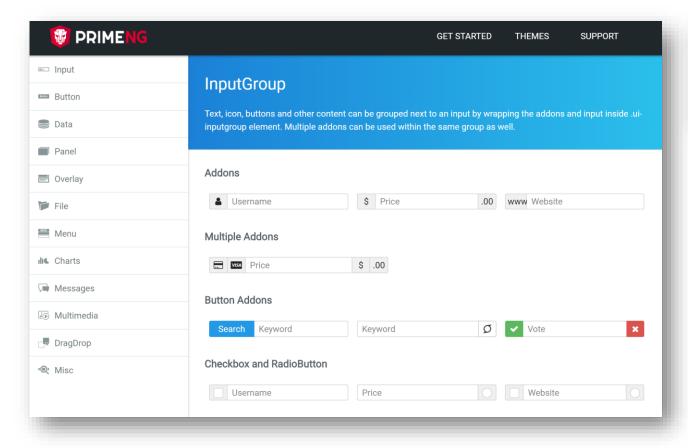
Access URL for the Website page:

http://54.210.4.37/mycareer/



PrimeNG

UI components.

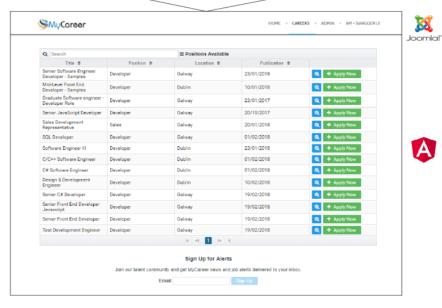


<div< th=""><th>class="ui-inputgroup"></th></div<>	class="ui-inputgroup">
	<pre><i class="fa fa-user"></i></pre>
	<pre><input pinputtext="" placeholder="Username" type="text"/></pre>
<td>v></td>	v>
<div< td=""><td>class="ui-inputgroup"></td></div<>	class="ui-inputgroup">
	<pre><i class="fa fa-credit-card"></i></pre>
	<pre><i class="fa fa-cc-visa"></i></pre>
	<pre><input pinputtext="" placeholder="Price" type="text"/></pre>
	<pre>\$</pre>
	<pre>.00</pre>
<td>v></td>	v>

The front-end (Applicants)

Joomla and Angular





Through the job application module, the applicant can view a list of all available jobs on the page and also be able to submit their personal data to the selected position.

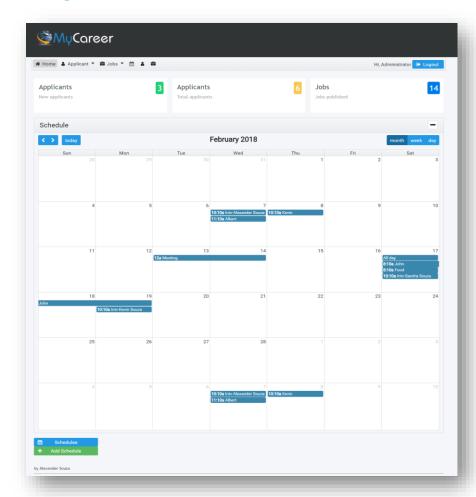
Access URL for the front-end Applicants page:

https://mycareer-webajobs.herokuapp.com/

Apply for Graduate Softv	are engineer - Developer Role	
lame	Email	
Phone number	URL Profile	
over Letter		
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Backend (Admin - Applicants)

Angular

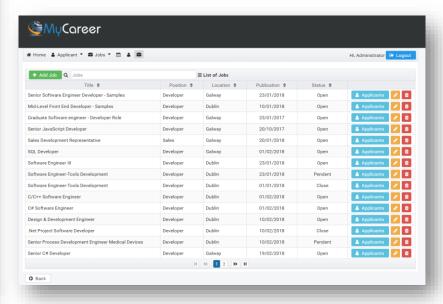


Through this module, the administrator can manage the data provided by the API, such as:

- Manage published work;
- Manage applicants;
- · Manage the system agenda;
- Candidate evaluation system;
- · List of questions for the interview process.

MyCareer Admin

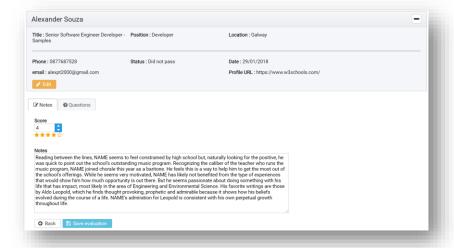
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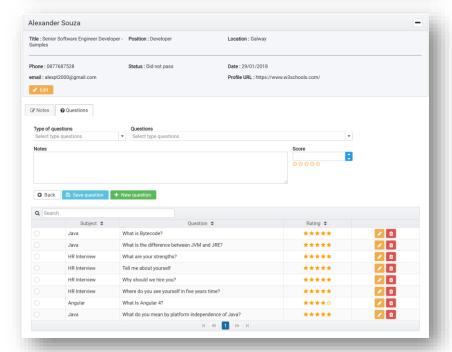
Backend (Admin - Applicants)

Angular



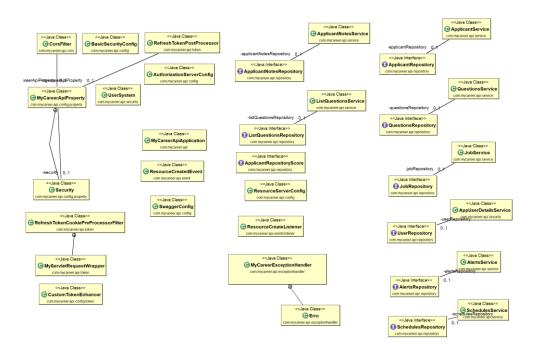






API

Spring boot



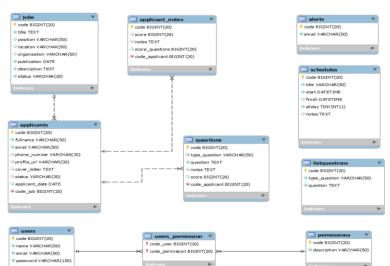
For the MyCareer project, the API will serve as the data for the UI, the persistence of the data and also to ensure the security of the application.

This is a RESTful API that uses the following technologies:

- Spring Boot;
- String Security;
- JWT
- Hibernate;

API - Swagger UI

https://mycareer-api.herokuapp.com/swagger-ui.html



API - Security

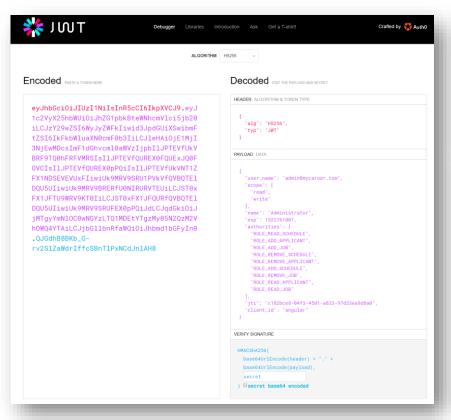
Spring boot



Server 1. POST /users/login with username and password 2. Creates a JWT with a secret 3. Returns the JWT to the Browser 4. Sends the JWT on the Authorization Header 5. Check JWT signature. Get user information 6. Sends response to the client from the JWT

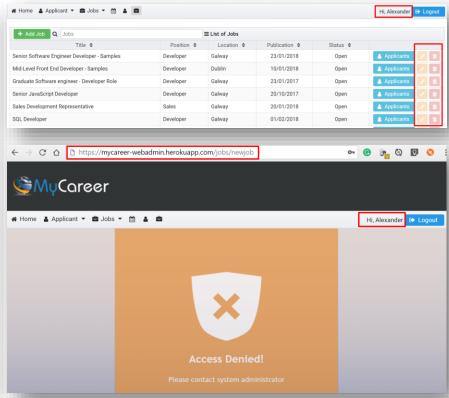
API - Security

Spring boot

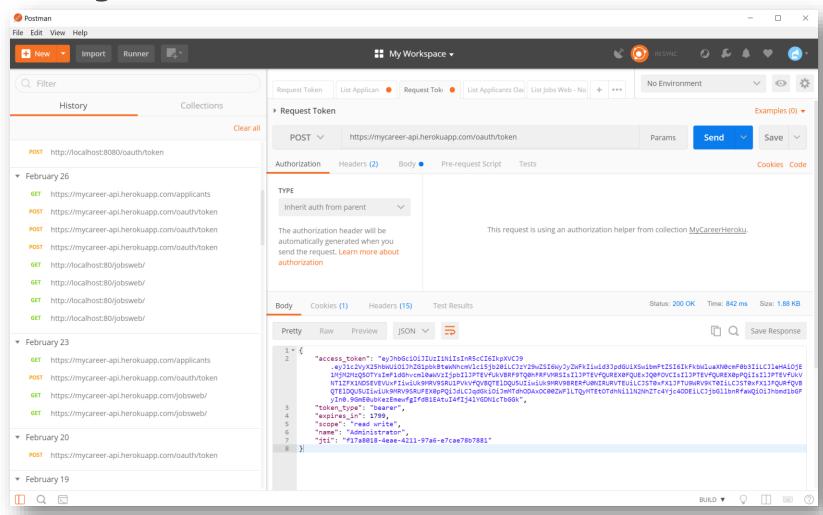


These rules (Payload) will be used in the system in order to be able to enable or disable system functionalities, thus creating different levels of access.

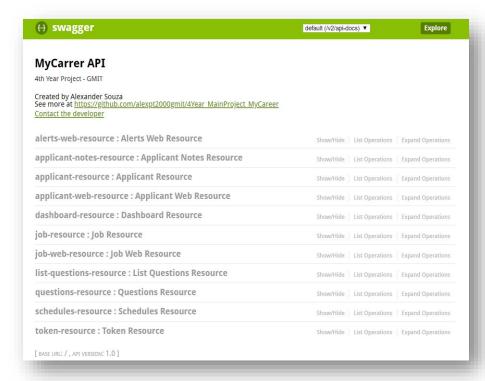
The UI applies this rule over the buttons, which can disable or make them invisible.



Testing the API

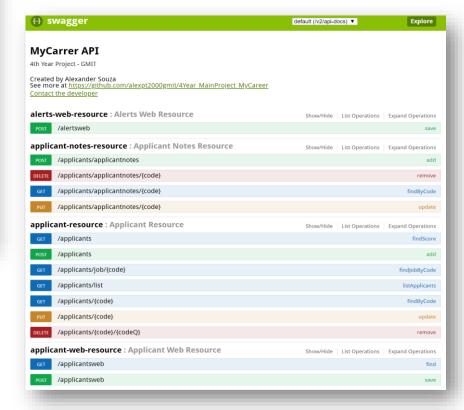


Testing the API



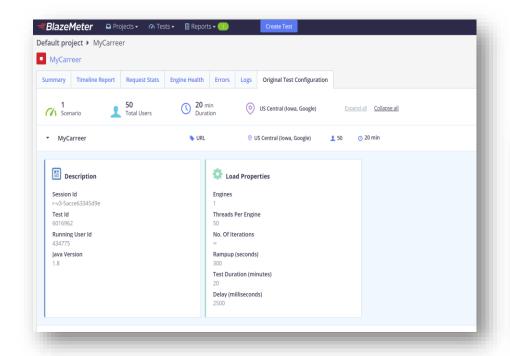
API - Swagger UI

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Testing the API

BlazeMeter



BlazeMeter provides developers with tools using the Amazon Elastic Compute Cloud (EC2) service that provides mobile, web application, website, webservice or database testing that can simulate thousands of users.

