ALTERNANZA SCUOLA-LAVORO
2018/2019

SUIT

What we've learned during the ASL project

Start of ASL project

C

Git & GitHub

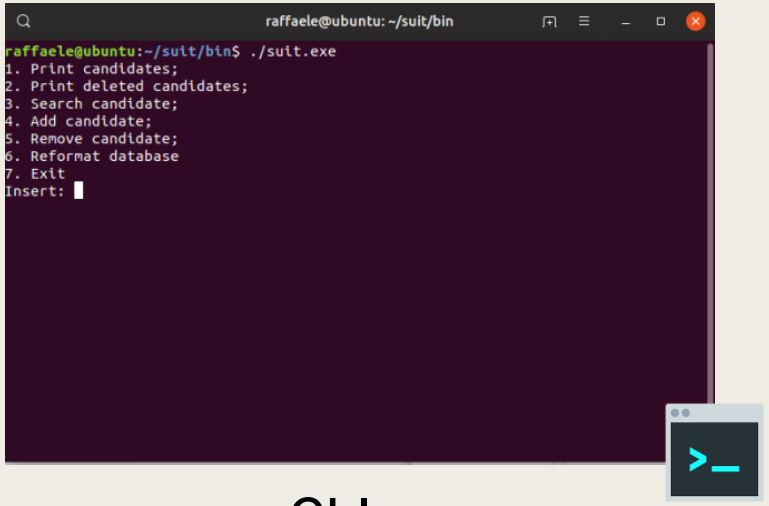
Databases & MySQL

Bootstrap

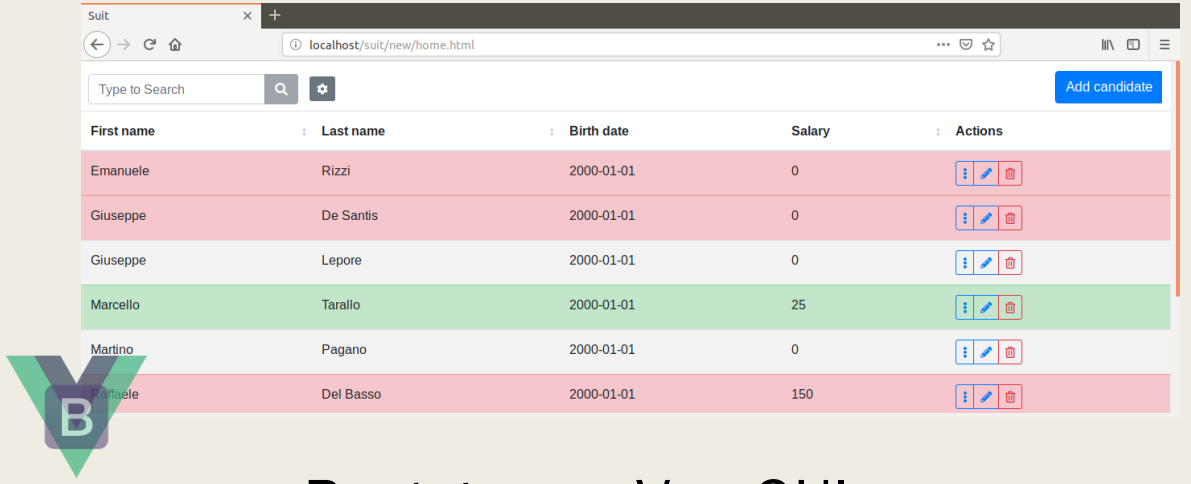
Vue.js

Web Servers & Apache

Software Timeline



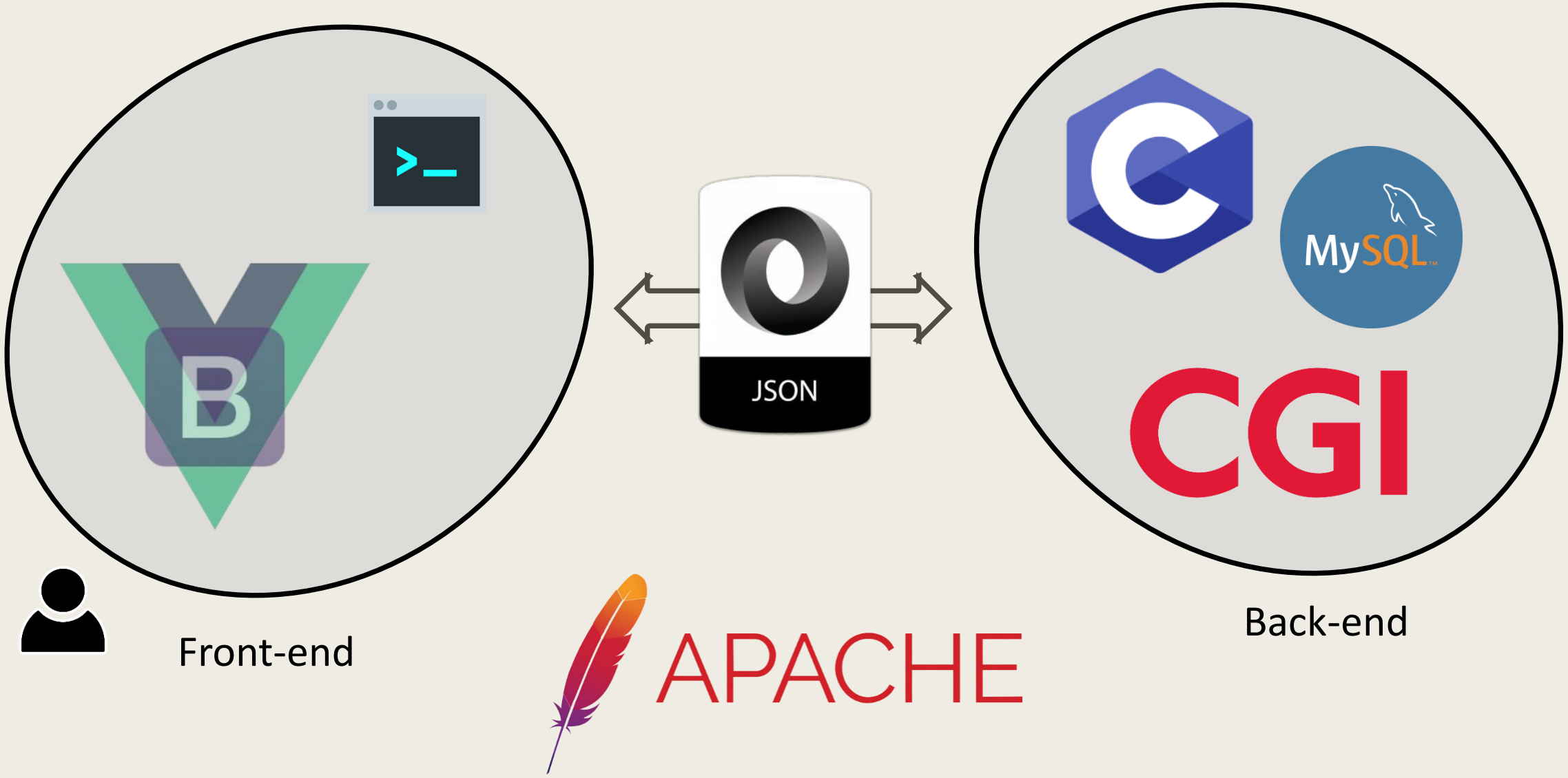
CLI



Bootstrap + Vue GUI

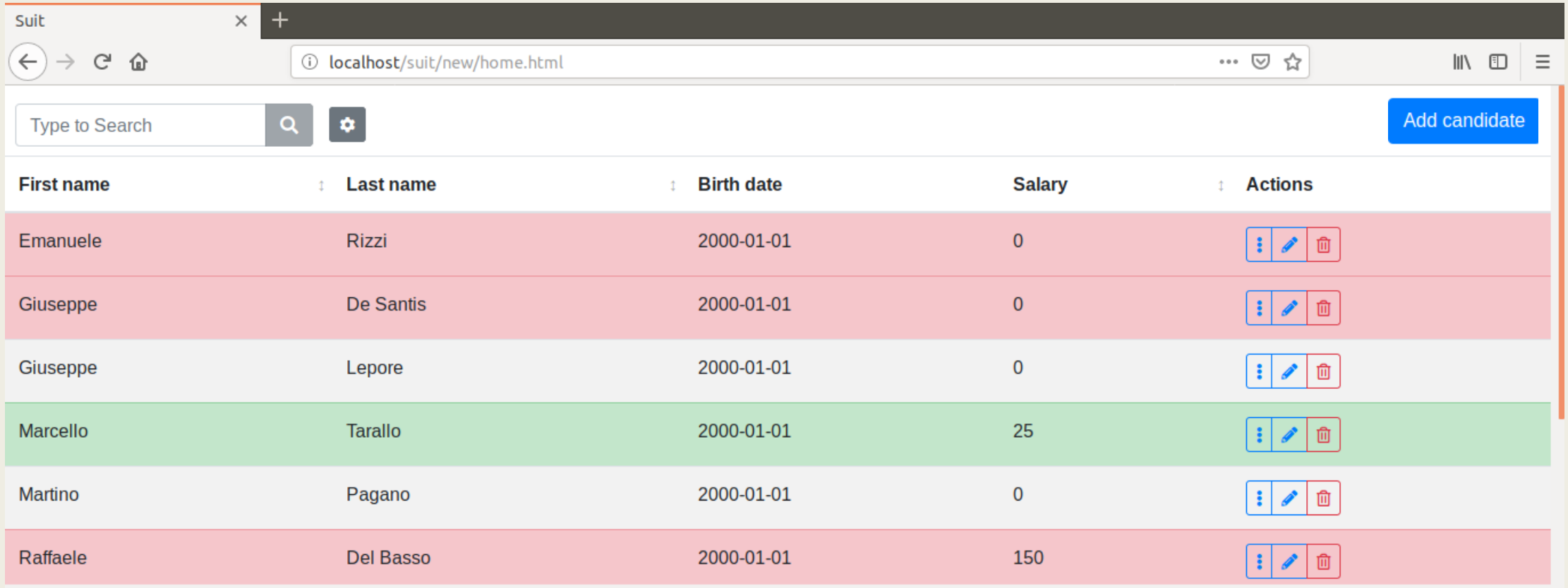
Basic HTML GUI

How is it made?



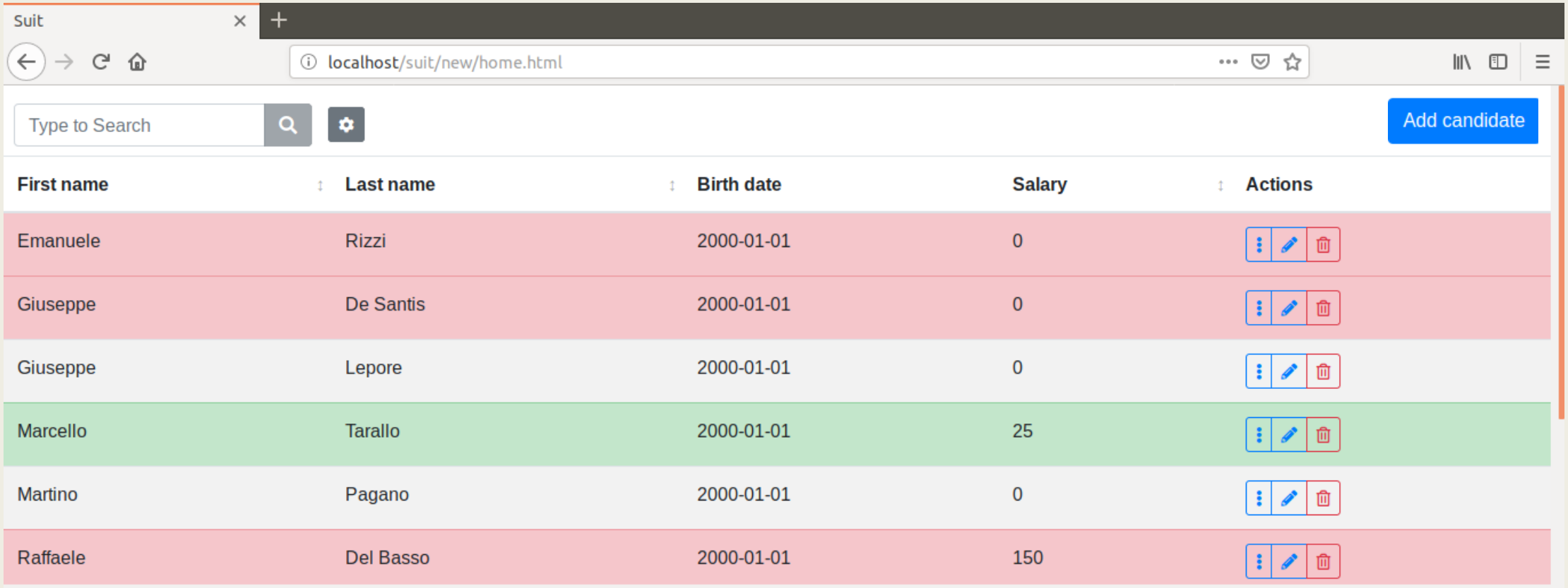
What is «Suit»?

Suit is our HR management web app that aims to simplify the process of finding and hiring employees.



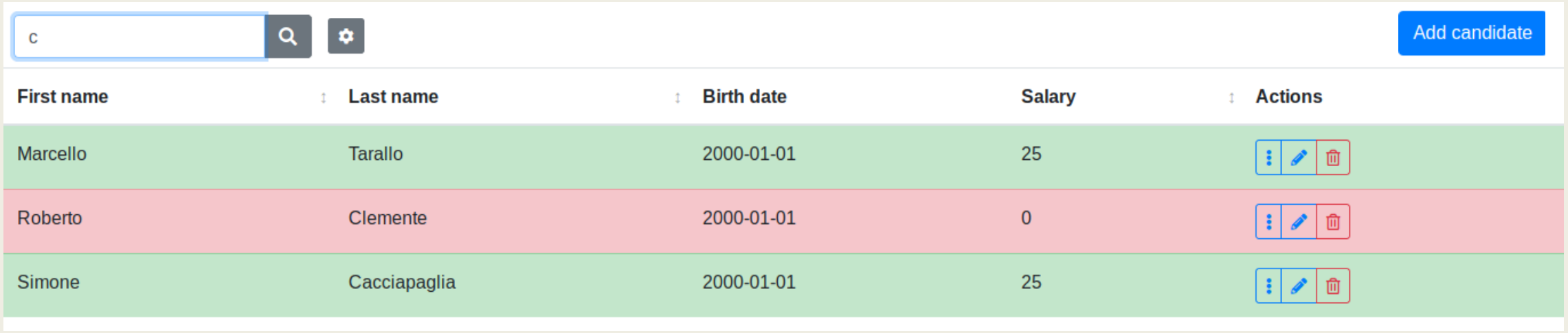
How does it work?

The software has a top section which contains the search bar and the filter panel, and the main section which shows the candidates in a table.



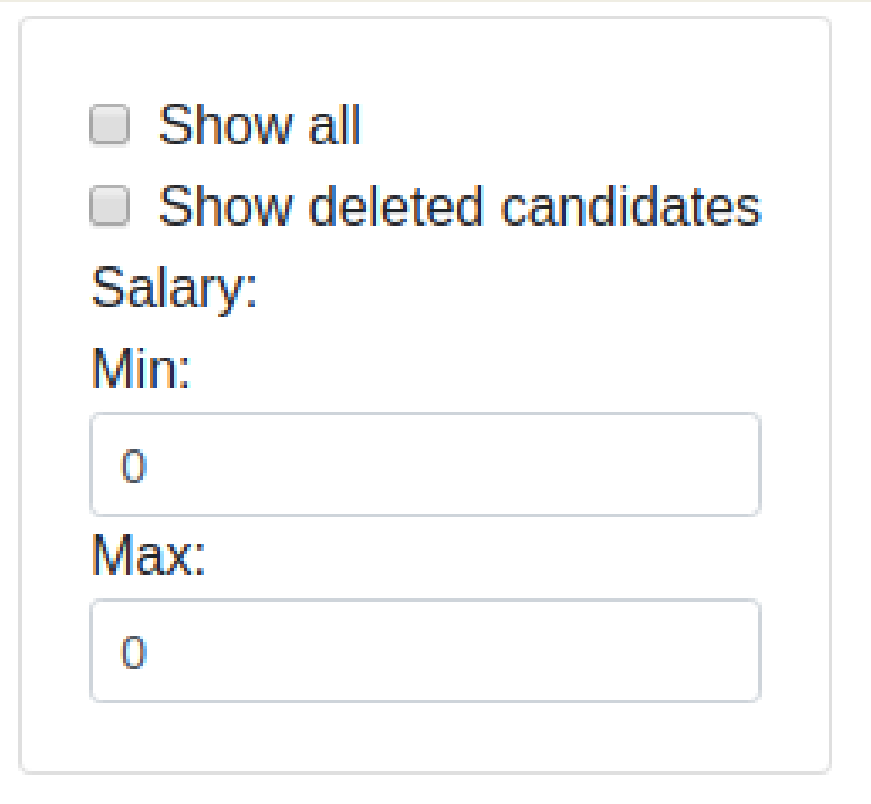
Search and filters • Search bar

The search bar allows you to search for a candidate by first name and last name using the incremental search method ***(case insensitive)***.



Search and filters • Filters

The following panel allows you to apply and combine filters for a more detailed search.

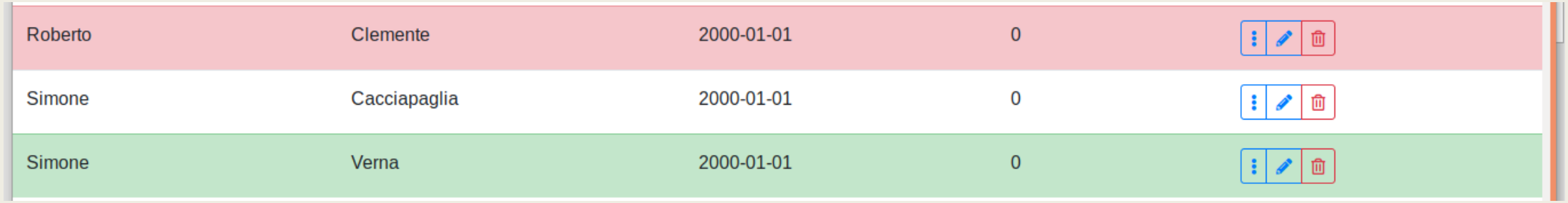


Rows and candidates

Rejected or hired candidate

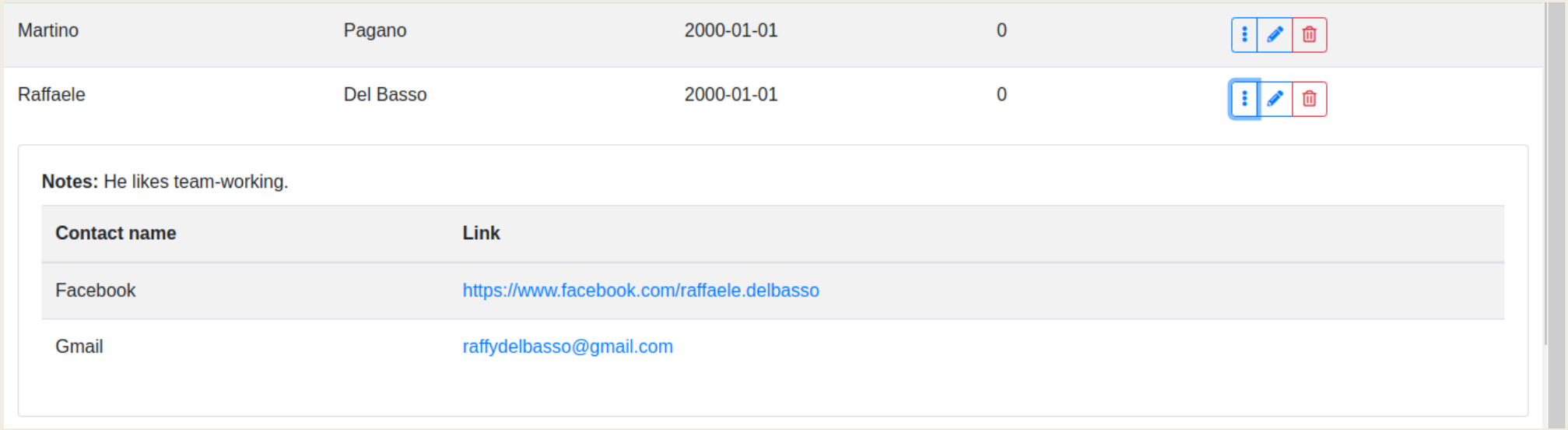
Not deleted and not employed candidate

Employed candidate



Action list • Details

This button allows you to see all the candidate information.

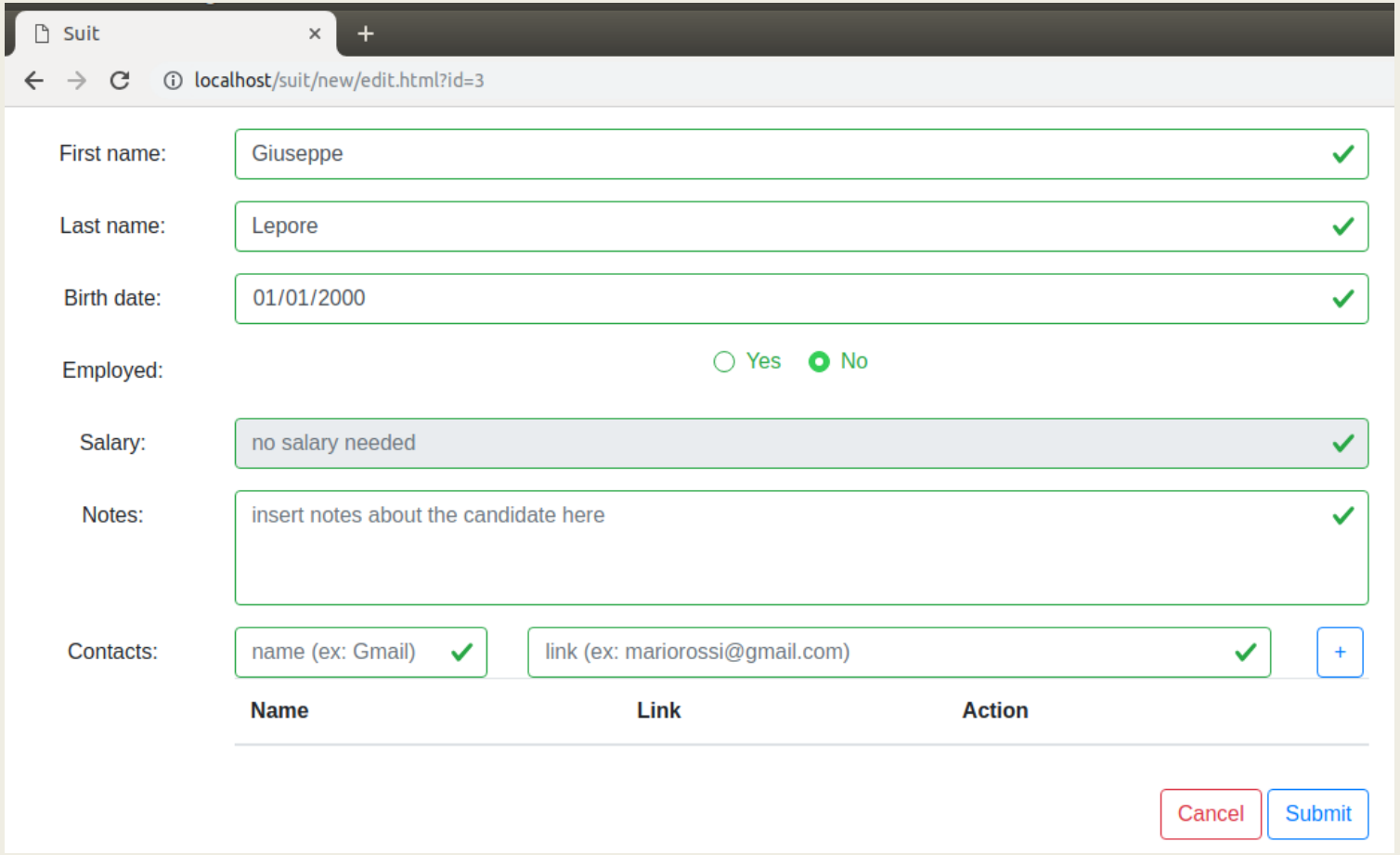


The row expands and shows the following information (if inserted):

- Notes about the candidate;
- All the contact links or mails which have been registered.
  - If you click on a web link, you will be redirected to the site you clicked (ex: Facebook profile);
  - If you click on an email, your email client will open.

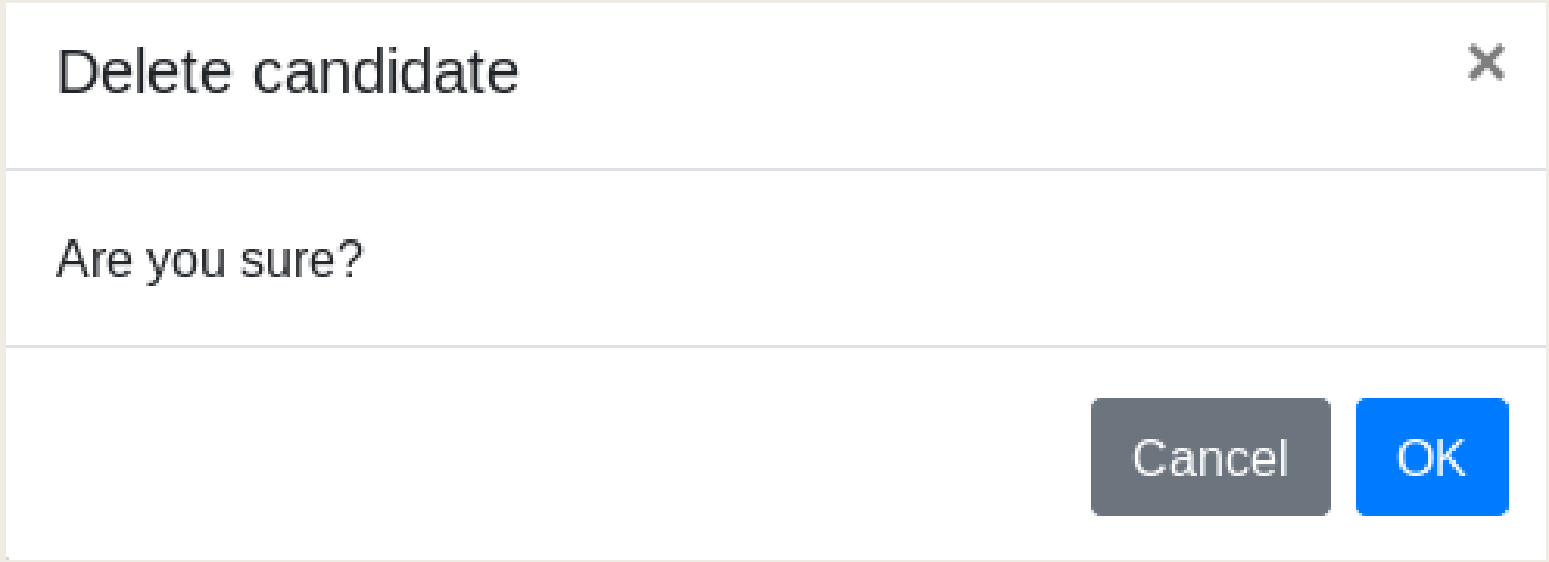
Action list • Edit candidate

This button lets you edit the candidate information.



Action list • Delete candidate

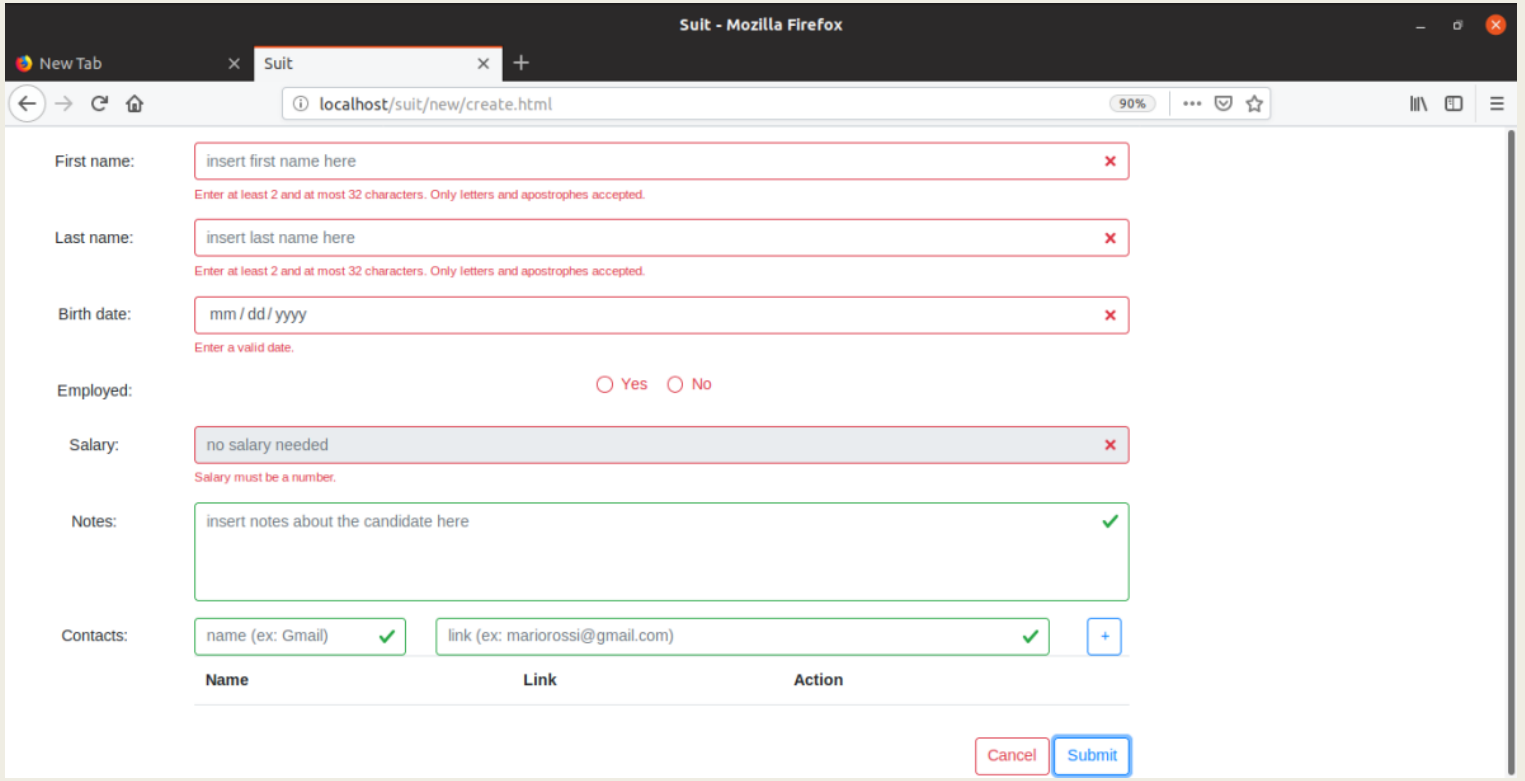
This button lets you delete the candidate. It will still be possible to see the deleted candidates through the filter panel.



Add candidate

This button lets you add a new candidate.

The text fields are red when there is something wrong. Otherwise, they will be green. You can submit a candidate only if all the text fields are green.



Conclusions

Our software has the goal to help the company during the hiring process.

Coming features:

- *A better interface;*
- *New filters.*

The app might be updated in the future to allow to manage all the employees becoming a more general tool for the company.

GitHub project link: https://github.com/lt-scuolalavoro/suit

Thank you for the attention.

Backup slides

- Deploy
- What's *Alternanza Scuola-Lavoro*?
- Why C + CGI?
- Why JSON?
- Why Bootstrap + Vue?
- New filters
- Better GUI
- DB Versioning System

Deploy

To run the software you need to read and follow the instructions located in the GitHub repository wiki.

Link: https://github.com/lt-scuolalavoro/suit/wiki

What's *Alternanza Scuola-Lavoro*?

Alternanza Scuola Lavoro (School – Work experience model) is the innovative educational discipline which allowed us to 'work' for the company during our school years.

During the last two years we alternated school days with work ones, in which we discovered the working life and how it feels.

Why C + CGI?

We used C and CGI in the backend essentially because we studied C during our last school year.

Even if we know that C is not used so much nowadays, we wanted to use our C knowledge to achieve our goals.

Another reason is that C is still one of the fastest languages in the computer science industry and we got the proof of it during the development of this project.

Why JSON?

We needed to let the db communicate with the frontend frameworks (Bootstrap + Vue), so we found JSON the easiest way for us to manage this task.

Why Bootstrap + Vue?

These two frontend frameworks simplified the GUI design and develompent due to their flexibility and their approachability.

TODO: New filters

We are going to add new filters like:

- Order the table by addition date
- Order by age
- Show only unemployed candidates
- Show only employed candidates

TODO: Better GUI

We want to improve the GUI adding more feedback messages that aim to enhance the user experience.

DB Versioning System

We created a database versioning system to automate the process of updating the database on every machine.

We use sql and sh scripts to execute queries automatically.

Everything is managed by a shell script called ‘db_update.sh’ at the moment.

It checks the current version of the database and updates it to the latest version.

We are designing a better script which accepts arguments (e.g. --help, etc.) because we want to create a valid tool.