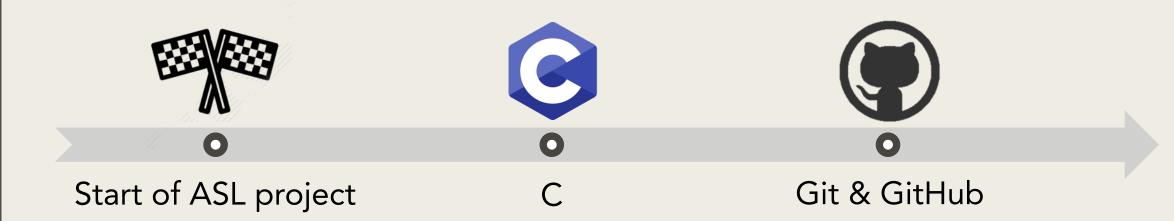
ALTERNANZA SCUOLA-LAVORO 2018/2019







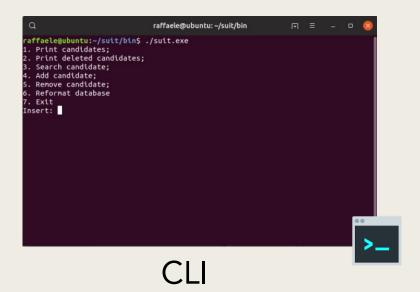
What we've learned during the ASL project

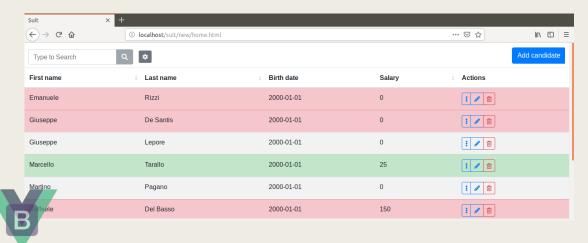






Software Timeline





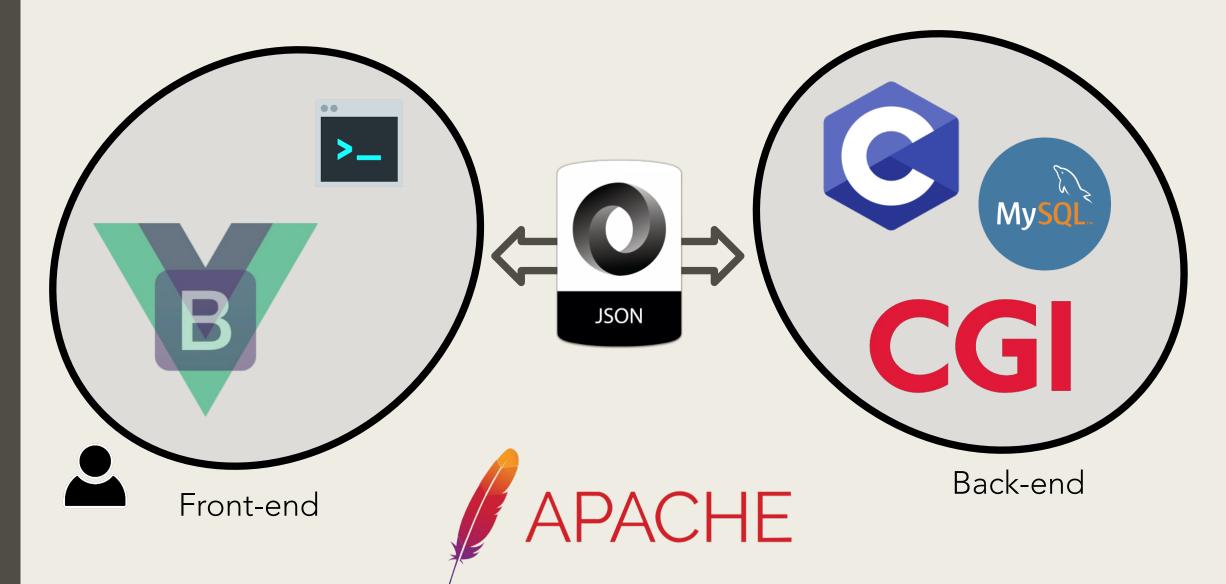
Bootstrap + Vue GUI

Basic HTML GUI





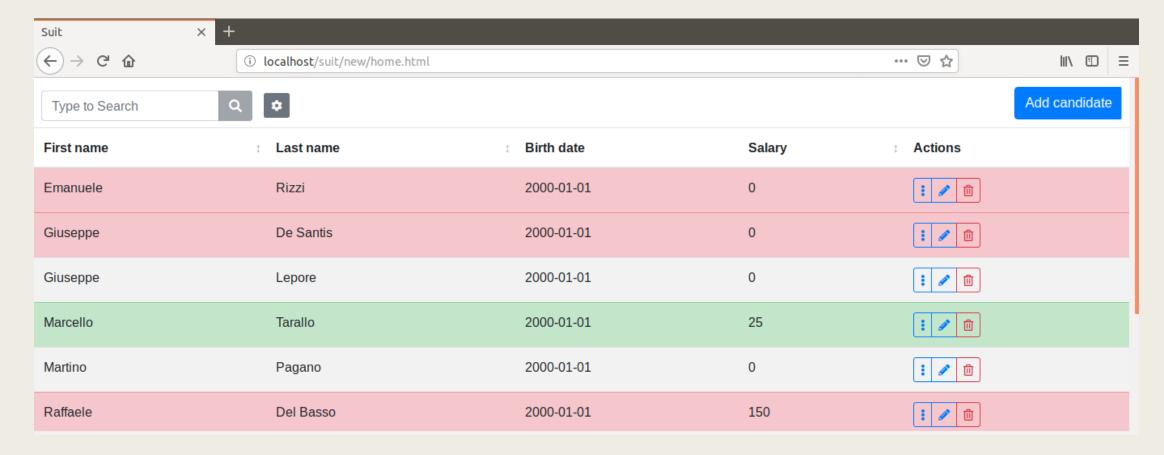
How is it made?





What is «Suit»?

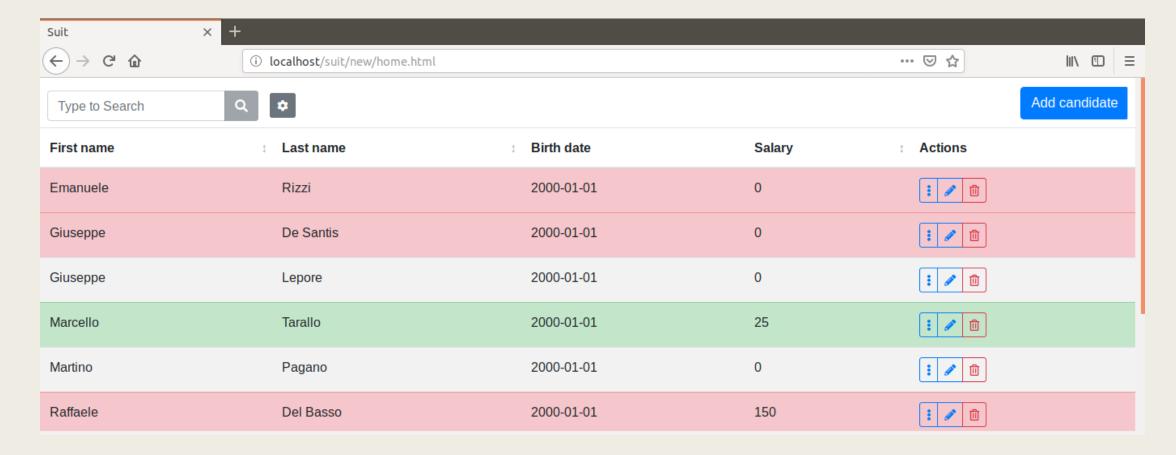
Suit is our HR management web app that aims to simplify the process of finding and hiring employees.





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

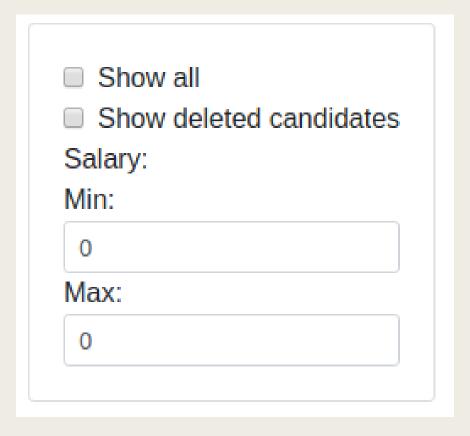
The search bar allows you to search for a candidate by first name and last name using the incremental search method *(case insensitive)*.





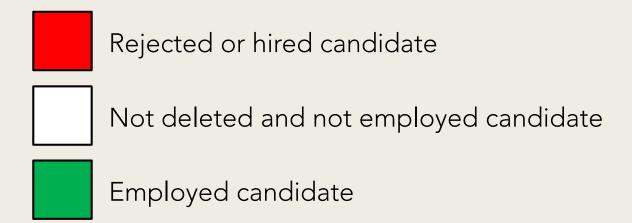
Search and filters • Filters

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





Rows and candidates



Roberto	Clemente	2000-01-01	0	
Simone	Cacciapaglia	2000-01-01	0	: / 🗓
Simone	Verna	2000-01-01	0	



Action list • Details



This button allows you to see all the candidate information.

Martino	Pagano	2000-01-01	0			
Raffaele	Del Basso	2000-01-01	0			
Notes: He likes team-working.						
Contact name	Link					
Facebook	https://www.	https://www.facebook.com/raffaele.delbasso				
Gmail	raffydelbass	raffydelbasso@gmail.com				

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

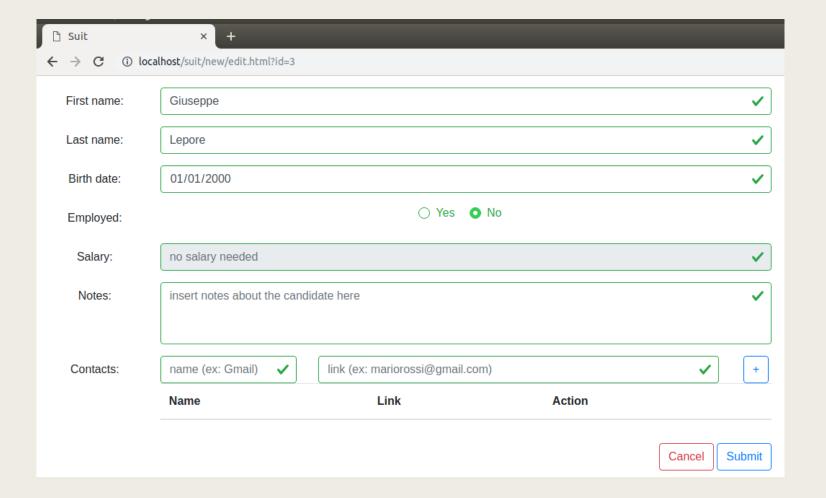
- Notes about the candidate;
- All the contact links or mails which have been registered.
 - If you click on a web link, you will be redirected to the site you clicked (e.g., Facebook profile);
 - If you click on an email, your email client will open.



Action list • Edit candidate



This button lets you edit the candidate information.





Action list • Delete candidate



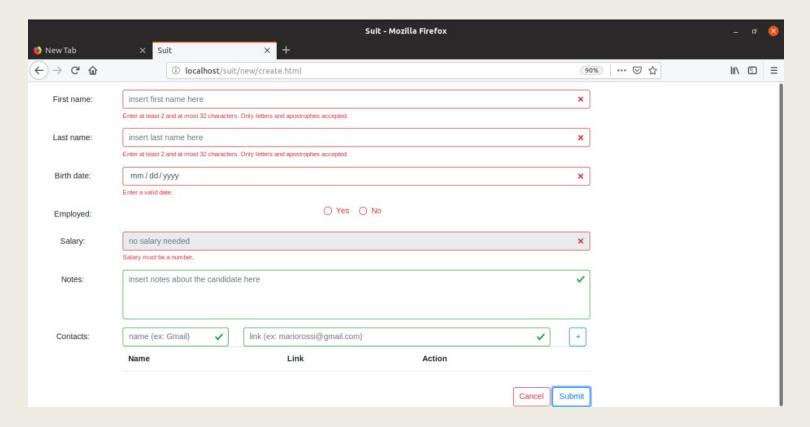
This button lets you delete the candidate. It will still be possible to search for deleted candidates through the filter panel.

Delete candidate	×
Are you sure?	
	Cancel



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 the most suitable language for this kind of application, we wanted to use our C knowledge to achieve our goals, in order to get a deeper understanding on what we were doing.

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 do that.





Why Bootstrap + Vue?

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





TODO: New filters

We are going to add new filters like:

- Order the table by record insertion 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 and make easier the user experience.



DB Versioning System

We created a database versioning system to automate the process of updating the database schema and data 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 modular script capable of execute single or multiple operations by the use of arguments (e.g. –help for synopsis, etc.).

