

Qatium Tech - Take Home Exercise

Child care

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About

The project has been developed in Angular, the web development framework I'm currently working with.

The project has been organized in different modules; each module is a "block" of functionality so:

- Landing page: Control of the landing page, in this case we've only one but here would be the code to load different ones based on client, for example.
- Portal: Layout control, first module loaded after the landing page. Here we define the way the app is going to look like (header, menus, footer...) in this case and to simplify only header and content.
- Child-care: the content. Here you could find the different components used to show each one of the functionalities requested in the exercise:
 - o List of childcares
 - o Add a care
 - o Add a parent
 - o Show balance
 - o Show "transactions", this is minimum number of childcare requests to net the time debts.
- Shared: this is a special module I like to create in my projects to keep components or services that are used all over the application in this case:
 - o A custom dropdown: can be reused to load it with different data, customize the placeholder, select a default option...
 - o Loader
 - o Feedback-button: a regular button that the developer can configure with different texts and is disabled and change the icon while the communication with the API hasn't finished (to avoid double clicks and double calls).

All the data has been mocked in the `child-care.service.ts`.

The project has tests, implemented with jest. I haven't covered 100% of the code because most of them are almost the same, so I've tried to cover, at least, one test per functionality:

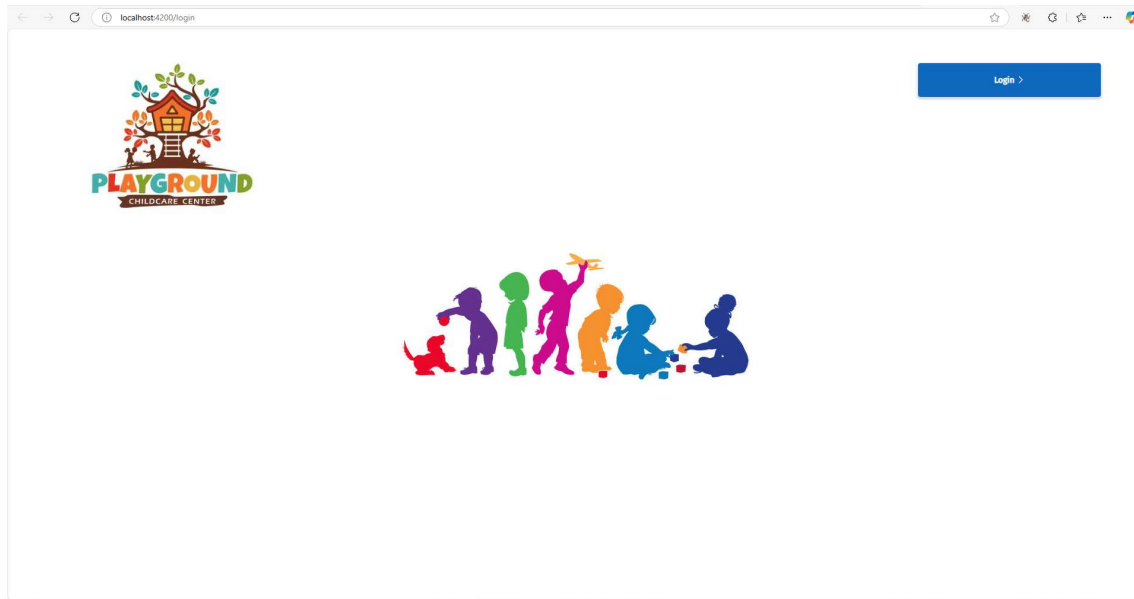
- API calls
- Component creation
- Component behaviour depending on API returned data
- Button clicks
- Algorithms

How to execute the app

1. Clone the repo <https://github.com/vruizl/Qatium-Child-Care.git>
2. To generate the dependency files execute npm install (could be necessary to add - -force)
3. Execute npm start

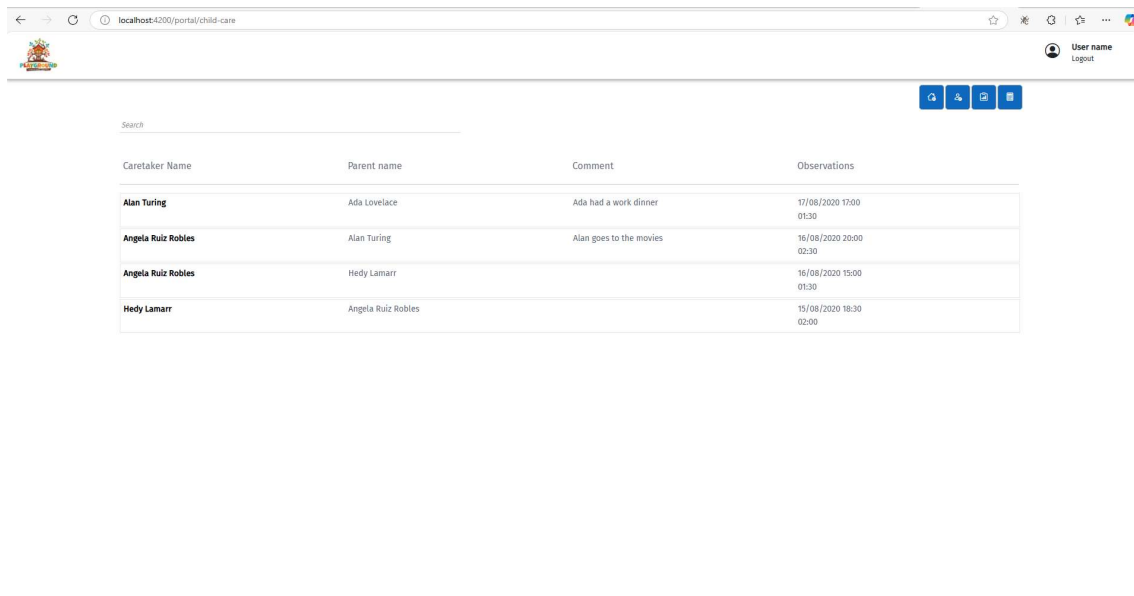
The app

If you don't want to execute the app from the code or have some problems, some screenshots:



Landing page

If you click on the Login button, you will navigate to the portal and you will be able to see the list of already created child cares:



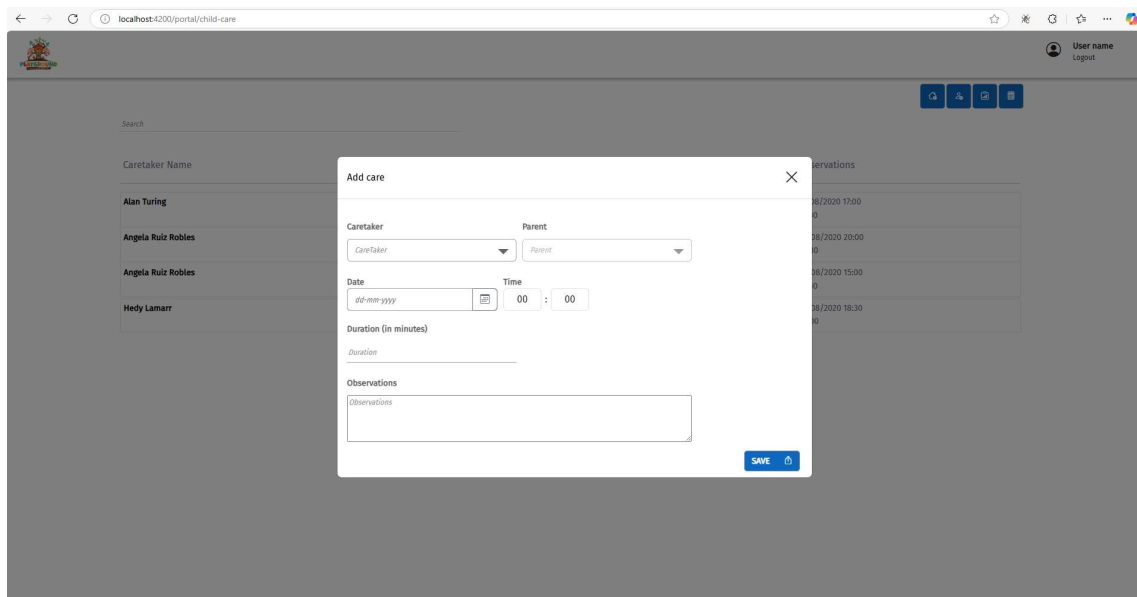
The rest of functionalities can be tested with the four buttons upper right



Add childcare

Allows the user to select a caretaker, then a parent (can't be the same as the caretaker) and then the rest of mandatory information.

The time-picker I've used is not the best in the world, but for the purpose of the development I think is enough.



The screenshot shows a web application interface with a modal form titled 'Add care'. The modal contains the following fields:

- Caretaker:** A dropdown menu with 'Caretaker' selected.
- Parent:** A dropdown menu with 'Parent' selected.
- Date:** A text input field with a calendar icon, showing 'dd-mm-yyyy'.
- Time:** A time picker showing '00 : 00'.
- Duration (in minutes):** A text input field with a placeholder 'Duration'.
- Observations:** A text area with a placeholder 'Observations'.
- SAVE:** A blue button with a checkmark icon.

The background shows a list of caretakers and a table of observations.

Add a parent

localhost:4200/portal/child-care

User name
Logout

Search

Caretaker Name	Parent name	Comment	Observations
Alan Turing	Ada Lovelace	Ada had a work dinner	17/08/2020 17:00 01:30
Angela Ruiz Robles	Alan Turing	Alan goes to the movies	16/08/2020 20:00 02:30
Angela Ruiz Robles			18/2020 15:00 0
Hedy Lamarr			18/2020 18:30 0

Add parent

Name

SAVE

Balance

localhost:4200/portal/child-care

User name
Logout

Search

Caretaker Name	Parent	Balance	Observations
Alan Turing			18/2020 17:00 0
Angela Ruiz Robles			18/2020 20:00 0
Angela Ruiz Robles			18/2020 15:00 0
Hedy Lamarr			18/2020 18:30 0

Balance


Parent	Balance
Alan Turing	- 01:00
Ada Lovelace	- 01:30
Angela Ruiz Robles	02:00
Hedy Lamarr	00:30

Transactions

← → ↺

localhost:4200/portal/child-care

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User name
Logout

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Search

Caretaker Name

Alan Turing

Angela Ruiz Robles

Angela Ruiz Robles

Hedy Lamarr

Time debts

Caretaker	Parent	Duration
Alan Turing	Angela Ruiz Robles	01:00
Ada Lovelace	Angela Ruiz Robles	01:00
Ada Lovelace	Hedy Lamarr	00:30

ervations

8/2020 17:00

0

8/2020 20:00

0

8/2020 15:00

0

8/2020 18:30

0

Comments

Some comments about the development:

- As I've said, the tests are not covering 100% of the code or all the use-cases, happy paths, errors... I've tried to cover a bit of everything.
- Validations, not all the validations are implemented, in a real case scenario all the validations will be there (empty values, error returned, undefined values, when enable/disable buttons...)
- Localize, all the texts are written in the code, in a real project I would have use a translation file to be able to cover multilanguage.