Climedo Health - Full-Stack

v.2.0 2021

Introduction

Dear software engineer, with this test we want to assess the level of your skills. **Please make sure to read the full document before you start implementing.**

Requirements

For the completion of this task please use the following frameworks:

- **Frontend Framework**: Angular (Latest stable version)
- **Styling**: Bootstrap, Font Awesome
- **Backend**: (ExpressJS, NodeJS, MongoDB) (latest stable versions)
- **Other:** Feel free to use any existing open source libraries e.g. npm packages … Whatever you need to complete the task.

Task Description

The web application you will develop for this test will be a hospital department management in a very simple form. You should be able to **create, edit, delete and search** through departments.

Below is the mockup for the required web app.

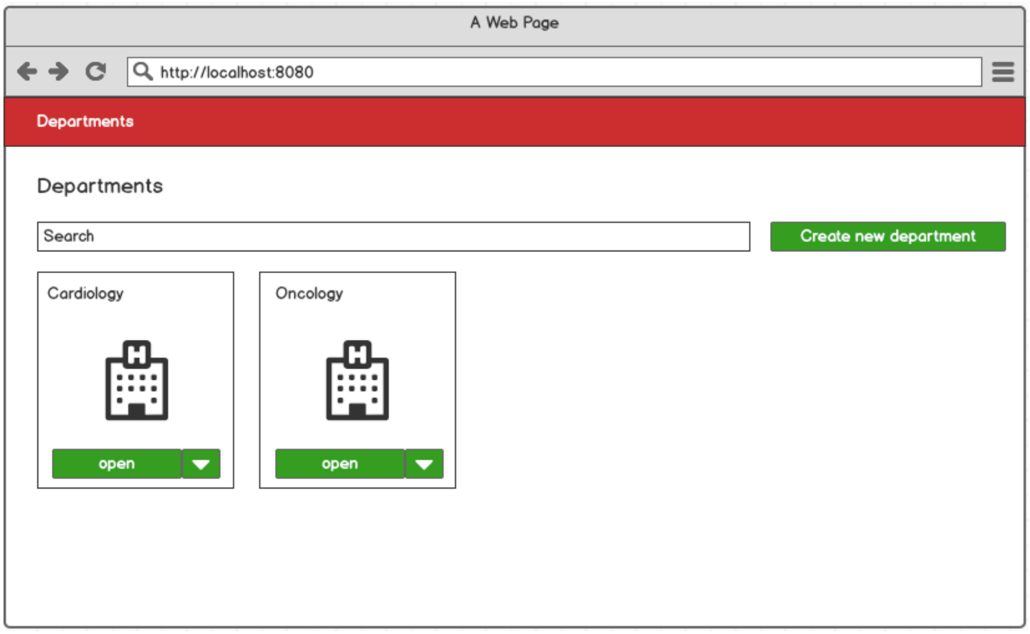
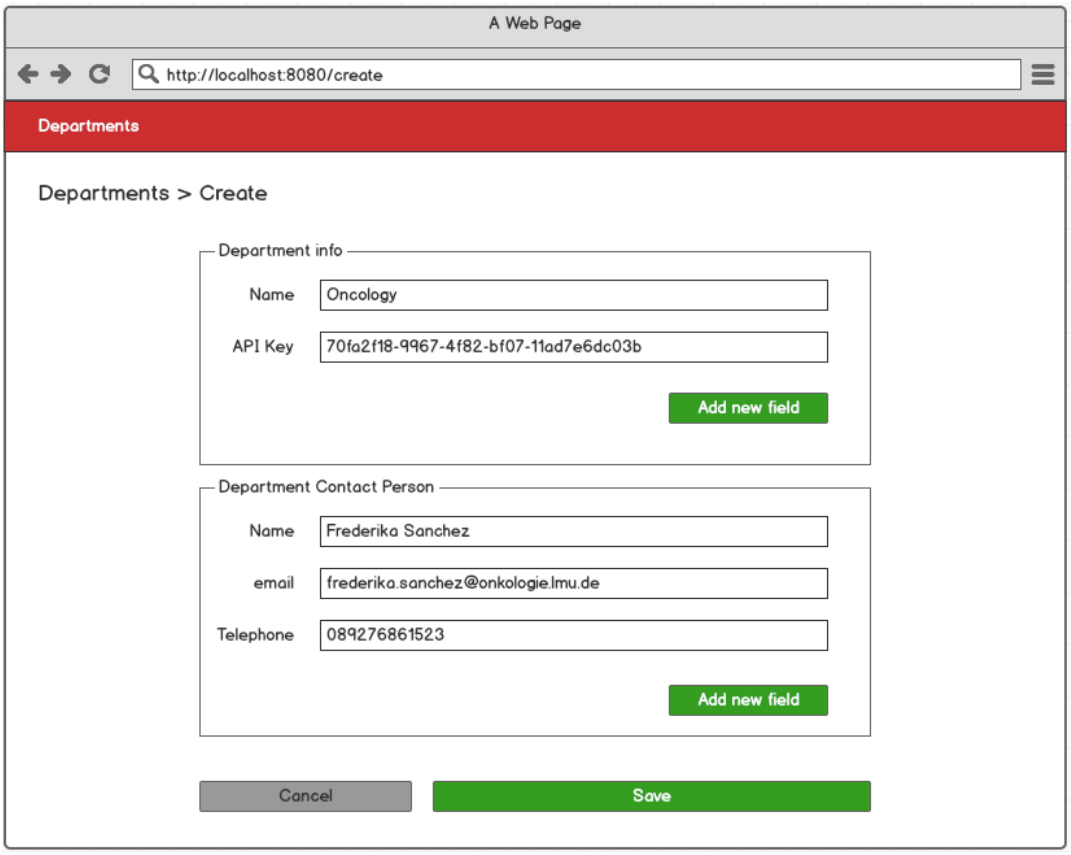


Figure 1. Department Listing (home page)

As shown on Figure 1, the main view will have search, create new department button and the department cards.

The search should consider all properties of the department object not only its name. For example, it should be able to search by api key or name for the contact person.



Department info

Name	Oncology
API Key	70fa2f18-9967-4f82-bf07-11ad7e6dc03b

Department Contact Person

Name	Frederika Sanchez
email	frederika.sanchez@onkologie.lmu.de
Telephone	089276861523

Figure 2. Create new department

When clicking on create, you will be navigated to a screen like shown on Figure 2 where you can fill data for the fields shown on the screen. After filling and saving the user will be redirected to the main screen. By clicking on cancel again the user will be redirected to the main screen without any changes done.

BONUS: If you finish all tasks, a bonus task would be if you implement a mechanism for dynamically extending the fixed model fields. So when you click on Add new field, a modal is popping up asking the user to type the field name and after saving this *field extension* will be accessible for all departments.

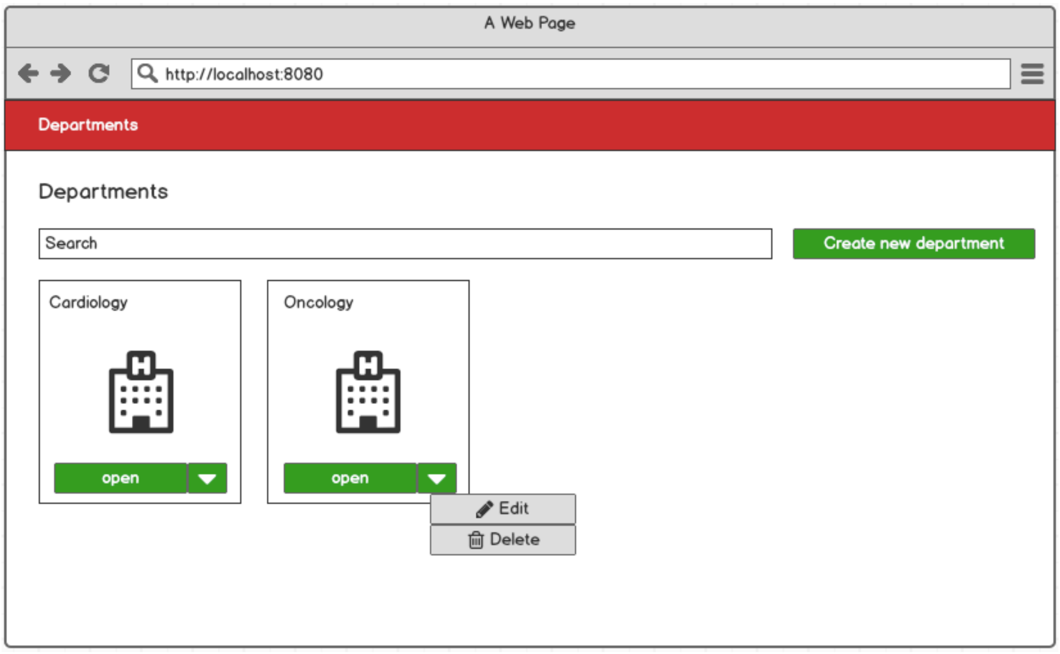


Figure 3. Edit/Delete via button dropdown

On the main screen, from the dropdown button of the card, the user can edit or delete the department object. When pressing **Edit** the user will navigate to the screen from figure 4. When pressing on **Delete**, a standard **"Are you sure"** modal will pop up. When confirming this the department would be deleted from the system.

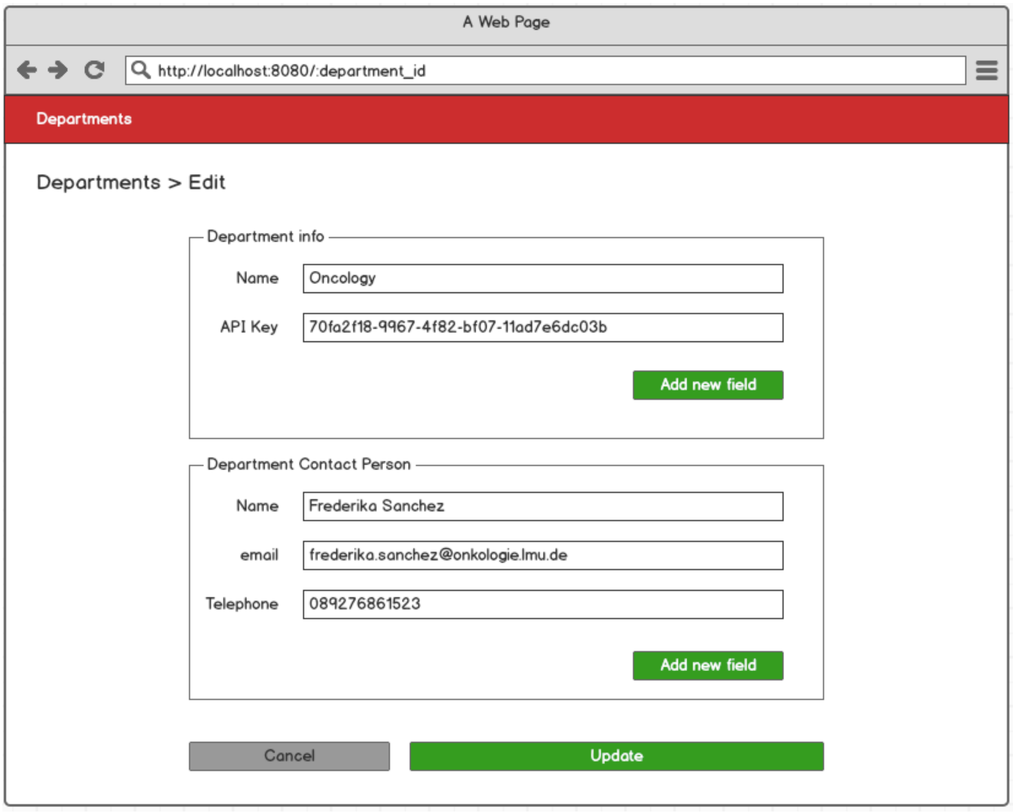


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Figure 4. Department Edit

Evaluation criteria

- TypeScript best practices (for the Angular part)
- Javascript best practices (in case you use it in the backend, but feel free to do it with Typescript as well)
- Show us your work through your commit history
- We're looking for you to produce working code, with enough room to demonstrate how to structure components in a small program
- Completeness: did you complete the features?
- Correctness: does the functionality act in sensible, thought-out ways?
- Maintainability: is it written in a clean, maintainable way?
- Testing: is the system adequately tested?
- Timing: please spend around 3-4 hours on this task but It is also fine if you want/need to spend more time on it. We will consider the quality/quantity/time ratio.

Deliverables

Please create a **PRIVATE** github repository and work there. When you are finished please invite ClimedoHealthCodingTests to the repository. We will download your solution from there, review it internally and come back to you with next steps. **Please add this PDF to the root of the repository as well.**

Please do not use a PUBLIC repository as a way to deliver the result and do not expose this test to anyone apart from yourself.

Please organize, design, test, and document your code as if it were going into production and add a Readme where you will explain how to start/test the app. Additionally at the bottom of the Readme please add **application details section** containing**:**

- **Name:** Your full name
- **Email:** The email that you used to apply for the job at climedo
- **Position:** The position you are applying for

Because those things might not be 100% clear from your github user details.

Good luck and have fun!