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MANAGEMENT APP CREATION WITH ANGULAR

- Specifications and Guidelines – 05.11.2019 v 1.0.3

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Contents

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1   DOCUMENT SCOPE

The purpose of this document is to give you specification and guides on building an **Employee Management App using Angular 7+**.

There are no specifications about sizes, spaces, font sizes or other UI details. The design we propose in this document serves as a **general guideline**.

Note: *We recommend you implement **your own design** as long as you keep a pleasant aesthetic and implement all the technical requirements.*

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2   PROJECT PREREQUISITES

To create an Employee Management App using Angular, you need the following key requirements/steps:

- PC/Laptop
- Access to internet
- NodeJS installed
- Angular CLI installed
- Visual Studio Code installed
- The *assets* folder we provide

Although access to internet is granted to you, you should still be able to **explain in detail** the general architecture and the concepts used in developing this test app.

3   PROJECT MAIN OBJECTIVE

The main goal of this application is to load the contents of the `employees.json` file and have it displayed it an organized manner, while also developing basic functionalities like: **Search**, **Delete** and **Edit**.

Sizes, spaces, font sizes or other UI details are irrelevant. **Feel free to implement your own personal design** as long as it has a **pleasing look**, and all **technical requirements are met**.

3.1   Other objectives

Besides your main task explained above, you must also respect the following methodology requirements described below:

- **Use Routing** (e.g.: for Edit Functionality).
- Use a **Shared Module** (e.g.: for Dialog Component).
- Use an **Angular Service** to load *employees.json*.
- **Embed and use** at least one of the custom fonts (fond in *assets/fonts* folder)
- Use **SCSS** or other **CSS** preprocessors.
- **Do not use Boostrap, Angular Materials** or other similar frameworks.
- The application should be **responsive** (work on different screens sizes).

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4   APPLICATION STATE 1: FULL LIST OF EMPLOYEES

4.1   Main Objectives

- Create a **New Angular** project (we recommend using Angular CLI, `ng new` command but is up to you to choose the best way to do it)
- Load the content of employees.json file, and map its contents to an interface.
- Display all employees in a list with control features: **Delete** end **Edit**.
- Disable **Edit** button if an employee has `Blocked` property set to *true*. (e.g.: **Reef Gamble**)
- Create separate components for employees list and its entries (e.g.: EmployeesList Component, and Employee Component).
- Use `@Input` and `@Output` to pass data between components.
- Use the images you find in *assets/images* for icons: **User**, **Delete** and **Edit** buttons.
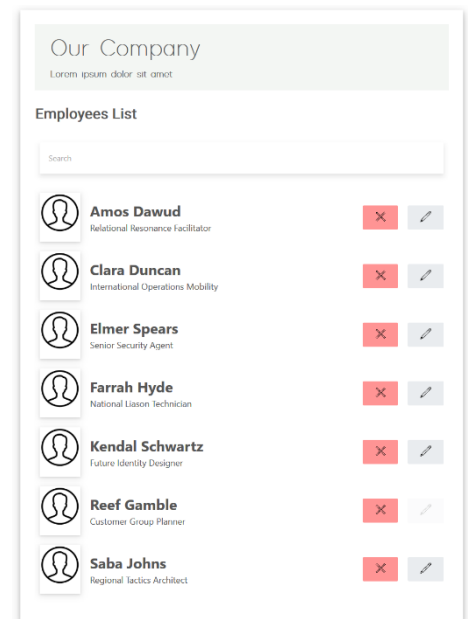
4.2   Optional Objectives

- Sort employees list alphabetically, by `FirstName` property.
- Use `Acrelec` or `Roboto` fonts (found in *asses/fonts*) for the application's title (e.g.: **Our Company**) or other texts.
- Add a simple transition animation for **Employee Components**.

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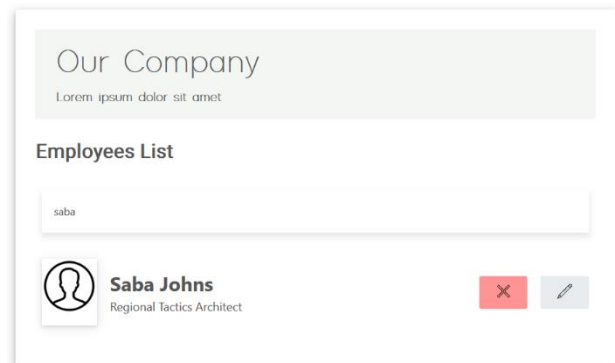Sector 4 Bucuresti
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5   APPLICATION STATE 2: SEARCH FUNCTIONALITY

5.1   Main Objectives:

Create a **Search** functionality that will filter results either by `FirstName`, `SecondName` or `Position`.
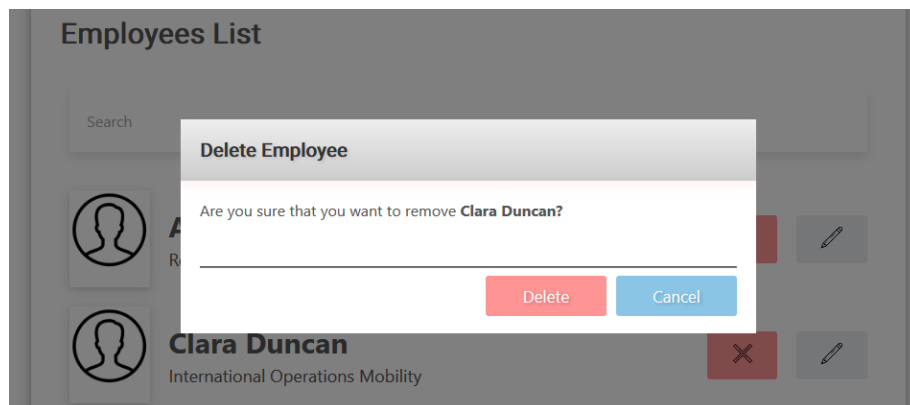
5.2   Optional Objective

Use a **Pipe** to implement the Search functionality.

6   APPLICATION STATE 3: DELETE FUNCTIONALITY

6.1   Main Objectives

- Part of a Shared Module, create a ConfirmDialog Component that will **ask for user confirmation** when he tries to delete an employee.
- Use `localStorage API` to save the changes over initial employees list so on a page refresh the deleted employees will not be displayed.
- After the first usage of `localStorage` API, the app should load data from local storage. If the local storage is empty (all employees have been deleted), then the app should load data back from the JSON file.

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7 APPLICATION STATE 4: EDIT FUNCTIONALITY

7.1 Main Objectives

- Create **Edit** functionality, on a different route. You should be able to edit employee's `Position` property.
- Use `localStorage` API to save the edit changes over the initial employees list, so on a page refresh, the changes will be kept.
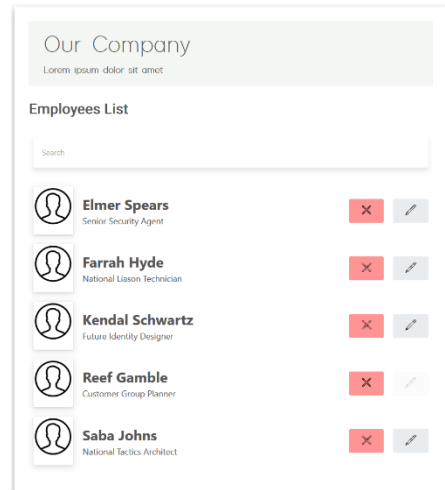
7.2 Optional Objectives

- Enable the **Save** button only if the text has changed and is valid (not empty).
- Display employee's `Details` property in HTML format (it must take in consideration the `<strong>` or `<em>` tags).

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8   APPLICATION STATE 5: FINAL LIST AFTER DELETE AND EDIT

8.1   Main Objectives

- Display the final list of employees after **Edit** and **Deletion** operations (see right).