



MANAGEMENT APP CREATION WITH ANGULAR

**- Specifications and Guidelines –
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v 1.0.3**



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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.

IMPORTANT!!!

After you finish, submit your source code to: codrin.fechete@acrelec.com



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 in 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:

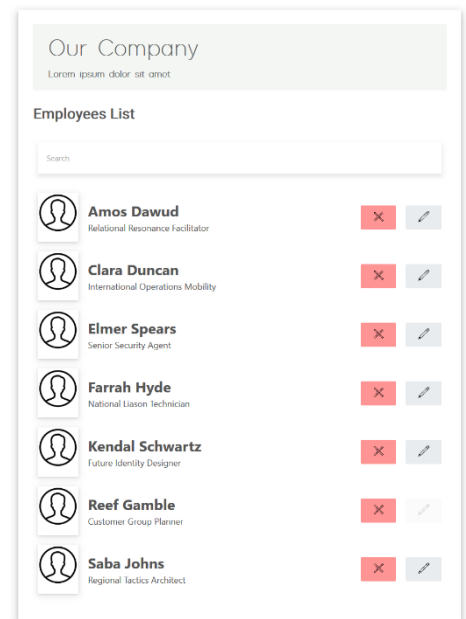
- **Use Routing** (e.g.: for Edit Functionality).
- Use a **Shared Module** (e.g.: for Dialog Component).
- Use an **Angular Service** to load *employees.json*.
- **Embed and use** at least one of the custom fonts (found in *assets/fonts* folder)
- Use **SCSS** or other **CSS** preprocessors.
- **Do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



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** and **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**.



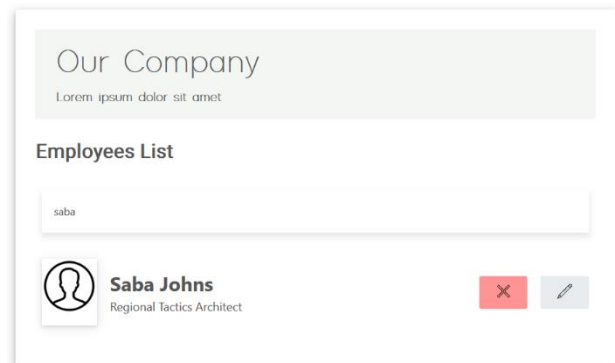
5 APPLICATION STATE 2: SEARCH FUNCTIONALITY

5.1 Main Objectives:

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

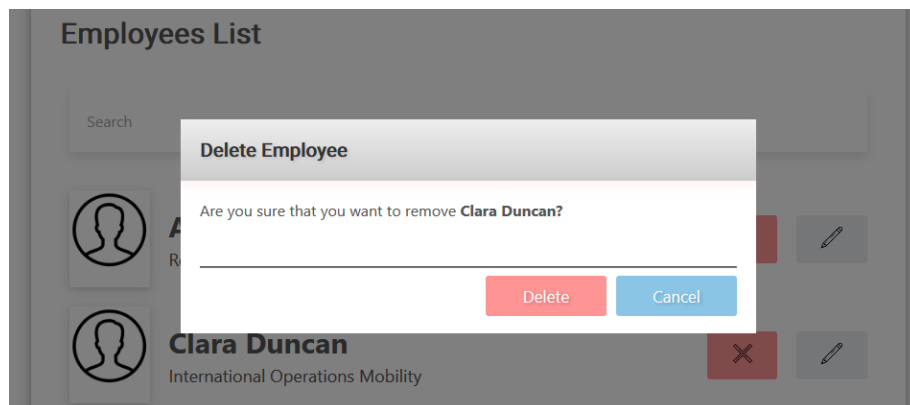
5.2 Optional Objective

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.



7 APPLICATION STATE 4: EDIT FUNCTIONALITY

7.1 Main Objectives

Our Company
Lorem ipsum dolor sit amet

Employees Edit

Saba Johns

Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

National Tactics Architect

Cancel Save

- 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

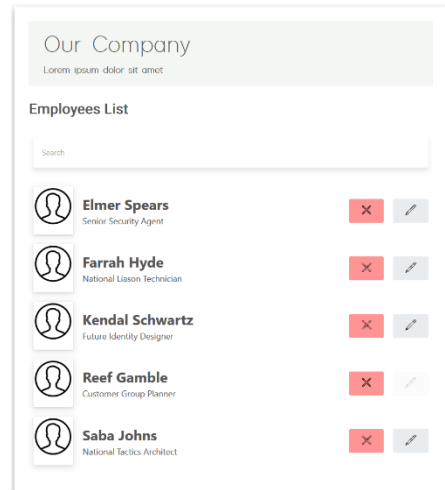
- Enable the **Save** button only if the text has changed and is valid (not empty).
- Display employee's `Details` property in HTML format (it must take in consideration the `` or `` tags).



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).





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