MDE Developer Interview

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Introduction

We want to evaluate your proficiency in Angular and the development environment. We want to focus on the concepts and your problem-solving skills. Given the limited amount of time we have, you may or may not able to complete the exercise, but you will be able to walk us through your solution at the end and tell us what your next steps would be.
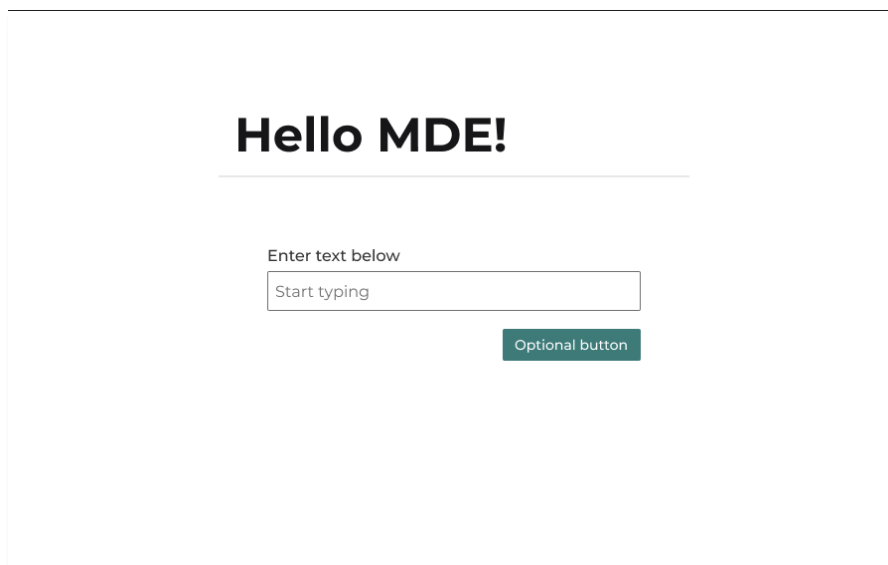
The challenge

You will be working in the StackBlitz online IDE, which provides a code editor (vs code), a terminal, and a browser window where you will be able to view your code changes. This is the URL for the environment:

https://stackblitz.com/edit/stackblitz-starters-f2foge?file=README.md

You have a newly created Angular 16 project with routing and CSS. Your objective is to create a new blank base page and add two components to it, one input box with autocomplete (sometimes referred to as typeahead), and the second component is a modal popup that will display the text entered in the input box previously created.

For the autocomplete input box:

- The list of possible matches is located in the file `src/data/autocomplete.json`
- Start matching after the user types 2 letters
- You can add a button to call the popup, or simply wire it to hitting the enter key in the input box
- Bonus points for adding placeholder text: "Start typing"
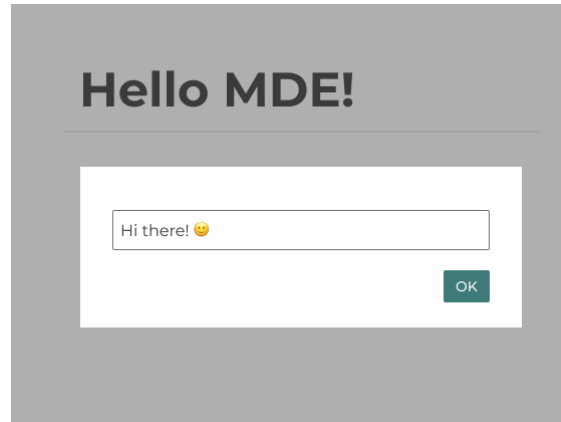- Bonus points for highlighting the matched text

For the modal popup:

- Must have a way to exit it, whether it is a x button on the top right corner or an OK button.
- Must display the text entered in the input box
- There must be a visual indicator that this is a modal popup. For example, the background should have a translucent gray color
- Bonus points for handling Unicode characters (for example emojis or international characters)

Bonus points

You can implement the two controls in a familiar way to you (for example, using material), but you can get bonus points by using bootstrap controls. Think of the very limited time to implement, though. You also get bonus points for using CSS styling for your components.

This is a recap of the bonus points listed above:

- Placeholder text "Start typing" in input box
- Highlighting matched text in the autocomplete input box
- Handling Unicode characters