README.md 4/2/2022

Software Frameworks - Assignment - Frontend

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Task

- 1. Create a simple auto-complete text-input that is provided as a web-component.
- 2. A simple prototype in two SPAs (React, Angular, VueJs or your preferred SPA-Framework) should be created which renders the implemented webcomponent.
- 3. The web-component should get the list of possible suggestions from outside (from teh SPA Framework) and should emit an event with its current value if it loses focus.

Solution

I implemented a web-componnt "wc-search-bar.element" that is written in Vanilla Javascript. It is located under libs\shared\ui-components\src\lib\search-bar\wc-search-bar.element.ts.

This web-component is injected into an Angular and a React app.

Angular app insertion point: apps\ng-app\src\app\app.component.ts.

React app insertion point: apps\react-app\src\app\app.tsx.

The web-component uses the shadowRoot and appends on top of the show root the search bar and auto-completion elements. If the user loses focus from the input field the app (e.g Angular-app) will receive the input-value of the web-component.

The web-component receives a name list from the Angular/React-app which is used for the auto completion.

Run Angular app

```
nx run ng-app:serve
```

(You need to install nx in order to run this project: npm install -g nx)

Run React app

```
nx run react-app:serve
```

(You need to install nx in order to run this project: npm install -g nx)