Requirements specification for search functionality.

We would like you to make an React JS component called “PlaceSearch”, where you can search for available places from a REST endpoint based on a week number, a city and a combination of both a week number and a city, which should dynamically generate a table with available places.

We would like to have two input fields and a table.

The first input field should be for the user to enter a city value, so we would like you to make it only possible to enter text.

In the second input field you should be able to enter week numbers, where the minimum value would be 1 and the maximum would be 52.

The table should show a list of places with city, street, zip, description, imageUri, geo, rating, week and availability.

The data in the table should update dynamically with user input.

Technologies:

React JS, ECMAScript 6, Fetch API, REST API (Mocking an REST endpoint).

The REST GET endpoint from URL + api/places/all would produce a JSON object with an array of all place objects (you should use the fetch API to get the data):

```
{"places":
        [
                {
                        "id": 1,
                        "city": "Herlev",
                        "street": "Somestreet 21",
                        "zip": "2730",
                        "description": "Some description",
                        "imageUri": "something.jpg",
                        "geo": "3948934,239423",
                        "rating": 4,
                        "week": 42,
                        "available": false
                },
                {
                        "id": 2,
                        "city": "Aarhus",
                        "street": "Somestreet 22",
                        "zip": "8000",
                        "description": "Some description",
                        "imageUri": "something.jpg",
                        "geo": "1948934,239423",
                        "rating": 5,
                        "week": 43,
                        "available": true
                },...
        ]
}
```

Accept Criteria's:

Find available places based on city.

Primary actor: User.
Pre-condition: City exist, places exist, and places are available.
Post-condition: User has successfully found the available places in a city.
Main success scenario:

1. User slowly starts entering desired city into an input field.
2. Table data updates for each entered key.
3. User is done entering city into input field.
4. All available places in the entered city is shown in the table.
    a. If city exist, but there are no available places.
        i. Show message with "no available places in city" in the table once.
    b. If city does not exist.
        i. Show message with "city not found" in the table once.

Find available places based on week number.

Primary actor: User.
Pre-condition: Places exist and are available.
Post-condition: Found all places available in the given week.
Main success scenario:

1. User enters week number into specified input field.
2. Table data updates for each entered key.
3. User is done entering week number.
4. All available places for the given week number is shown in the table.
    a. If no places are available for the given week.
        i. Show message with "no available places in week" in the table once.

Find available places based on city and week number.

Primary actor: User.
Pre-condition: City exist, places exist, and places are available.
Post-condition: Found all available places in a specific week and city.
Main success scenario:

1. User starts entering city into an input field.
2. Table data updates for each entered key.
3. User is done entering city into input field.
4. All available places in the city is shown.
    a. If city exists, but there are no available places.
        i. Show message with no "no available places in city" in the table once.
    b. If city does not exist.
        i. Show message with "city not found" in the table once.
5. User starts entering week number into an input field.
6. Table data updates for each entered key.
7. User is done entering week number into input field.
8. All available places in the city with the given week number is shown in the table.
    a. If no places are available in the given week.
        i. Show message with "no available places in week" in the table once.