




A CASE STUDY FOR MY MEET APP



OVERVIEW

Meet is a web application created with react. It provides users with information on events in different cities and what the event is about. Users can search by city and even without searching there is a default number of events shown. This progressive web app also offers offline access to upcoming events in specific cities.



OBJECTIVE

My aim for this project was to have a full-stack project to add to my professional portfolio and to build my server-side web application from scratch.

```
35  ///Scenario 2///
36  ✓ test("User should see a list of suggestions when they search for a city.", ({
37    given,
38    when,
39    then,
40  }) => {
41    let AppComponent;
42    ✓ given("the main page is open", () => {
43      | AppComponent = render(<App />);
44    });
45
46    let CitySearchDOM;
47    ✓ when("user starts typing in the city textbox", async () => {
48      | const user = userEvent.setup();
49      | const AppDOM = AppComponent.container.firstChild;
50      | CitySearchDOM = AppDOM.querySelector("#city-search");
51      | const citySearchInput = within(CitySearchDOM).queryByRole("textbox");
52      | await user.type(citySearchInput, "Berlin, Germany");
53    });
54
55    ✓ then(
56      | "the user should receive a list of cities (suggestions) that match what they've typed",
57    ✓  () => {
58      | const suggestionListItems =
59      |   | within(CitySearchDOM).queryAllByRole("listItem");
60      |   expect(suggestionListItems).toHaveLength(0);
61    }
62  );
63  });
64
```

PURPOSE & CONTEXT

My Meet project was created for my web development course with CareerFoundry to demonstrate my skills in JavaScript, React, and troubleshooting. This assignment also taught me how to create a serverless backend and optimal test coverage for the best performance possible.



STEPS FOR THE MEET APP

1. Creating user stories for future tests.

- Here we created user stories based on the apps key features to streamline the coding process. This prevents us from writing too much code and making it more readable.

```
1 Feature: Filter events by city
2 Scenario: When user hasn't searched for a city, show upcoming events from all cities.
3   Given user hasn't searched for any city
4   When the user opens the app
5   Then the user should see the list of all upcoming events.
```

2. Now it was time to create the security we needed for the app, so our users are secure.

- OAuth clients were prepared for authorization and authentication of users' tokens

3. As this is a serverless app I wrote Lambda functions to implements serverless technology in the app and created the serverless deployment package

1. Now that our serverless functions are set up it is time to write tests to make sure the app works the way it is supposed to.

```
16 test("renders text input", () => {
17   const cityTextBox = CitySearchComponent.queryByRole("textbox");
18   expect(cityTextBox).toBeInTheDocument();
19   expect(cityTextBox).toHaveClass("city");
20 });
21
```

2. Now that our tests work, we need to create integration and acceptance tests based on the user stories we created earlier.

```
35 //Scenario 2///
36 test("User should see a list of suggestions when they search for a city.", ({
37   given,
38   when,
39   then,
40 }) => {
41   let AppComponent;
42   given("the main page is open", () => {
43     AppComponent = render(<App />);
44   });
45
```

3. Wrapping up the testing I made sure that all the tests pass, and the app works the way I wanted it to.

FUTURE STEPS

There was so much work that went into the back-end of this project that I would love to give the client side more attention. There are so many ways to spruce up what the client sees and to bring more color and fun design into what we see. Incorporating more to the front-end design could add ease of readability and finding information.

Number of Events:

Number of Events:

React is Fun
Berlin, Germany
2020-05-20T14:00:00+02:00
2020-05-20T15:00:00+02:00
[Hide](#)

Event Details
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Learn JavaScript
London, UK
2020-05-19T16:00:00+02:00
2020-05-19T17:00:00+02:00
[Show](#)

Node Gang
Sydney NSW, Australia
2020-06-30T09:00:00+02:00
2020-06-30T10:00:00+02:00
[Show](#)



THANK YOU

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<https://donner-kabab.github.io/meet/>