

# Activity: Practice

Notes on extending the to-do list with Open Weather queries and dynamically changing content.

I copied the original to-do list code by hand to be sure that I understood each line and what it does.

I used an existing JavaScript file and modified it with the to-do js code.

I forgot to add the body-parser middleware and received an error when trying to post a name. The to-do list worked properly after adding the body-parser middleware.

Now that I have the to-do list web app working (confirmed adding and removing items works properly), I want to extend it to adding a city and minimum temperature for accomplishing the to-do, looking the city up in Open Weather, getting the city temp, checking against the provided minimum temp, then highlight the to-do in the list with a red or green background depending on if the temperature is warm enough for the to-do.

An aside, I really like using markdown for note-taking, it is a really simple formatting scheme. So, I found a markdown to pdf converter through npm. It can be installed from the command line with "npm install -g markdown-pdf".

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## Problem and Solution

### Problem Statement:

- Make sure you can create sessions, add and update different kinds of data to sessions and end sessions.
- Make sure you can make HTTP requests, including POSTs, from the server and deal with the data you get back.
- Make sure that you can set up pages to accept data from forms.
- Make sure you can handle nested asynchronous requests and process errors if they crop up (force errors to happen by doing things like entering in the wrong URL).

### Solution

- Extend the "to-do" web app by allowing users to:
  - add cities to-do items need to happen in
  - add min temp for to-do items
- Make HTTP calls to Open Weather Map to check if the current weather is good enough for the to-do.
  - if temp is too low, to-do should be red
  - if temp is right, to-do should be green.

## Steps for approaching the problem:

1. Allow the user to add cities to the to-do list.
  - input field for the city name
  - display the city name in the to-do list.
2. Allow the user to add min temp.
  - input field for the temp.
  - display the temp in the to-do list.