



Figure 1:

Milestone 2

due at midnight on Tue Mar 6 (125 points)

For this milestone, we want to create a component that corresponds to *one item* on the task list. Let's call that component `TaskItem`. It should look something like this:

The main elements here are:

- A checkbox indicating the task's done state. Tapping it can mark or unmark it as done.
- The task description (in blue in this sample).
- The task priority (in red). Clicking the priority should cycle through the available priority levels, 1 (low) through 5 (high). Or you can use a drop-down if you can figure that out.
- The task deadline (in green), which is an optional piece of data. Here it is presented in a human-friendly relative form (2 days from now), rather than as a precise timestamp (2018-02-28T16:00:00Z). You can investigate the [human-date](#) library for doing that conversion.
- Any task tags (in magenta). There can be zero or more tags.

You don't need to take the colors in this mock-up literally – use whatever colors or design elements you think make the component usable and attractive.

In addition, you should have a way to distinguish different priority levels, apart from just the number. Maybe each one gets a distinct color, in a range from blue (low) to red (high). Or maybe you use small icons to distinguish higher from lower priorities.

Of these fields I have mentioned, you should treat description, deadline, and tags as **properties** because they are (so far) immutable. You should treat done and priority as **states**. (They can be *initialized* based on properties, but they also can be modified.)

See the `TaskItemApp.js` and `TaskItem.js` in my `cs164pub/demo` folder on gitlab.