# **Cota Front-End Coding Challenge**

### **Purpose**

The goal of this exercise is to get a feel for your coding style and comfort level with using Angular as a front-end framework. This will also serve as a discussion topic for an on-site interview, where you will be asked to explain the code you have written and discuss what changes (if any) you would have made if you had more time.

#### **Instructions**

From Table 1, implement both the required feature and one (1) optional feature. Follow the designs (Figures 2 and 3) as you build these features. Plan to spend 2-3 hours to complete this exercise.

#### **Guidelines**

We've included a base project to get you started (see Figure 1). Feel free to make changes to what's already provided, but also be prepared to discuss and defend why you did.

- Be sure to do your best to style the selected features to use best practices for Angular and SASS
- Try to avoid importing any modules
- Don't worry about data persistence
- Do your best to write clean, maintainable, and reusable code
- Bonus points for tests!

#### **Exercise**

Table 1: Features

Features	Description
Required	Ability to enter task due dates (with proper date validation)
Optional: Pick any one	<ul> <li>Ability to sort tasks by text or due date</li> <li>Ability to filter tasks by text or due date</li> <li>Ability to change task order by dragging and dropping</li> <li>Ability to view completed tasks and "un-complete" them</li> </ul>

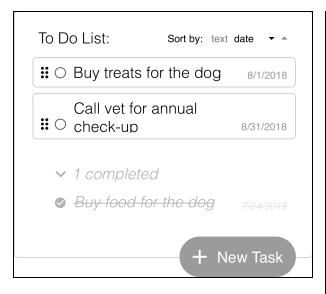
## **Styling**

We've also included design examples (see Figures 2 and 3). Get as close as you can to the designs while trying to limit yourself to the 2-3 hour time frame.

- Angular Google Material is included in the repo if you prefer
- Icons are stored in assets/icons
- Final design doesn't need to be pixel perfect
- Don't worry about cross-browser compatibility, accessibility, and responsiveness



Figure 1: Provided Base Project Implementation



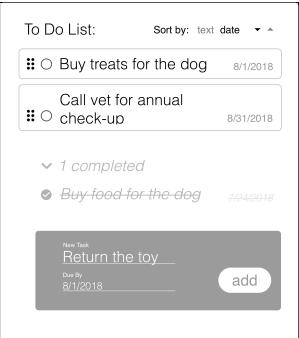


Figure 2: Default State

Figure 3: Entering Data