

# Programming Challenge - Angular

## Evaluation Criteria

- The list of task items must be displayed to the user.
- It should be clear to the user if an item is marked done or not. (This is a boolean property of the task items, see Data Format documentation below).
- The user must be able to perform the following actions on task items:
  - See details about the task. This includes the title, due data and the description
  - Create a new task
  - Mark a task as complete
  - [Bonus] Delete a task
  - [Bonus] Update a task's details
  - [Bonus] Create multiple tasks at once
  - [Bonus] Delete multiple tasks at once
  - [Bonus] For all of the above actions, the user should be made aware of when things succeed or fail. A simple success or failure message could do this.

\*\* Note - Requirements marked as [Bonus] are additional requirements that would make a better project, and so we would like to see some of them attempted, although they are entirely optional.

## Data Format

A task item on the backend has the structure like the following:

```
{  
  "id": 4,  
  "title": "title goes here",  
  "description": "An optional description may go here",  
  "due": "7/20/1969",  
  "done": true  
}
```

The restrictions for each property is as follows:

- id - must be a number and is required for task items that have been persisted in the backend
- title - is required and must be a string
- description - is optional. If specified, it must be a string
- due - is optional If specified, it must be a string that is in a valid ISO8601 format.
- done - is a required boolean, signifying if a task has been completed.