

## JavaScript Org Chart Task

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### Purpose:

This task is designed for you to demonstrate knowledge and skill in designing front end web app functionality. It is intended to be challenging so do not get discouraged!

The task is to design/implement a Java Script interface for managing roles in a hierarchical structure and adding users to those roles.

### Specifications:

Organize roles in an org chart using a javascript interface.

- Able to name each role.
- Able to add roles to the tree.
- Able to remove roles.
- Able to drag one role (along with descendants) and drop on a different “report to” (parent)

Manage users having these roles

- List registered users in sidebar (static html elements for purpose of this demonstration).
- Drag and drop users to roles.
- Drag users out of roles to remove role assignment.

### Resources:

Previous research identified two jQuery libraries that each implement a subset of these features. It is not necessary to use either of these resources, but if I were doing this task, I would start with one of these and try to incorporate the features of the other.

- <https://github.com/wesnolte/jOrgChart>
- <https://github.com/bigeyex/jquery.orgChart>
  - Notice how it records actions – we need to keep this functionality because any change will need to be reported to the server.

### Optional Nice to Haves:

Neither of the jQuery plugins look especially great. You could demonstrate css prowess by improving the look. Hari mentioned another resource which is a closed source version, but much closer to what we want to end up with: <https://www.youtube.com/watch?v=pnLHc0nka00>. We do not wish to copy that, but can certainly gain inspiration from it.

### Expectations:

A complete implementation of all of these features and ready to go styling is a significant project – start with just the role management part and see how far you get. You have until Friday, July 31<sup>st</sup> 5pm!

Please deliver a git repository containing the code you write. If you have not used git before, this will be a worthwhile learning experience regardless. I expect that you will set out with several strategies and try different things. If you can commit your partial/dead end work frequently, I would be interested in seeing your process. You can create various branches in your repository to store different attempts.

Please email any questions you might have in the same way as if you were on my team.