Interview task

Dear developer,

In order to evaluate your capabilities, please find the task below.

Please write a web application that allows users to add / edit / delete rows from a table. See the following example image (the image is just an illustration - you can do the UI any way you want)



Add a search box that filters results seen in the table by all columns. The results

Should refresh automatically upon typing or deleting letters.

Add another column to the table (in addition to Firstname, Lastname, Email) with the title:

“Role”. The role can be either of the following: Artist, Designer, Art manager.

Add a filter by Role dropdown, that upon selecting any of the roles, the relevant table results

Will be shown. Note that the filter works together with the search box. I.e, see the example

below: 

According to the above image, only the row with email == “[john@example.com](mailto:john@example.com)” should be

Shown.

Also, note that there can be **only 1 Art manager** in the entire table. Keep that in mind in the

creation/edit users.

**General guidelines**:

* Focus on writing **clean, robust, configurable and easy to maintain code**. You can use open source libraries as necessary. Note that execution time is an important factor for task success. Also, note that great user experience is a must.
* Validation is important both in front-end and back-end. Make sure all fields have reasonable validation. For example, names can't have numbers in them, emails are unique, etc... Validation results should be clear in the front-end - the user must know at all times exactly what's wrong in his input, in case it is wrong.
* Handle errors according to the javascript best practices.
* Technologies: MEAN stack - SPA (don’t divide to 2 apps) - please use Angular 2+

Deployment: <https://www.evennode.com/> - create a trial account

Source: Github

Result: link to the web app & Github source