

Intermediate Full Stack Developer Technical Assessment

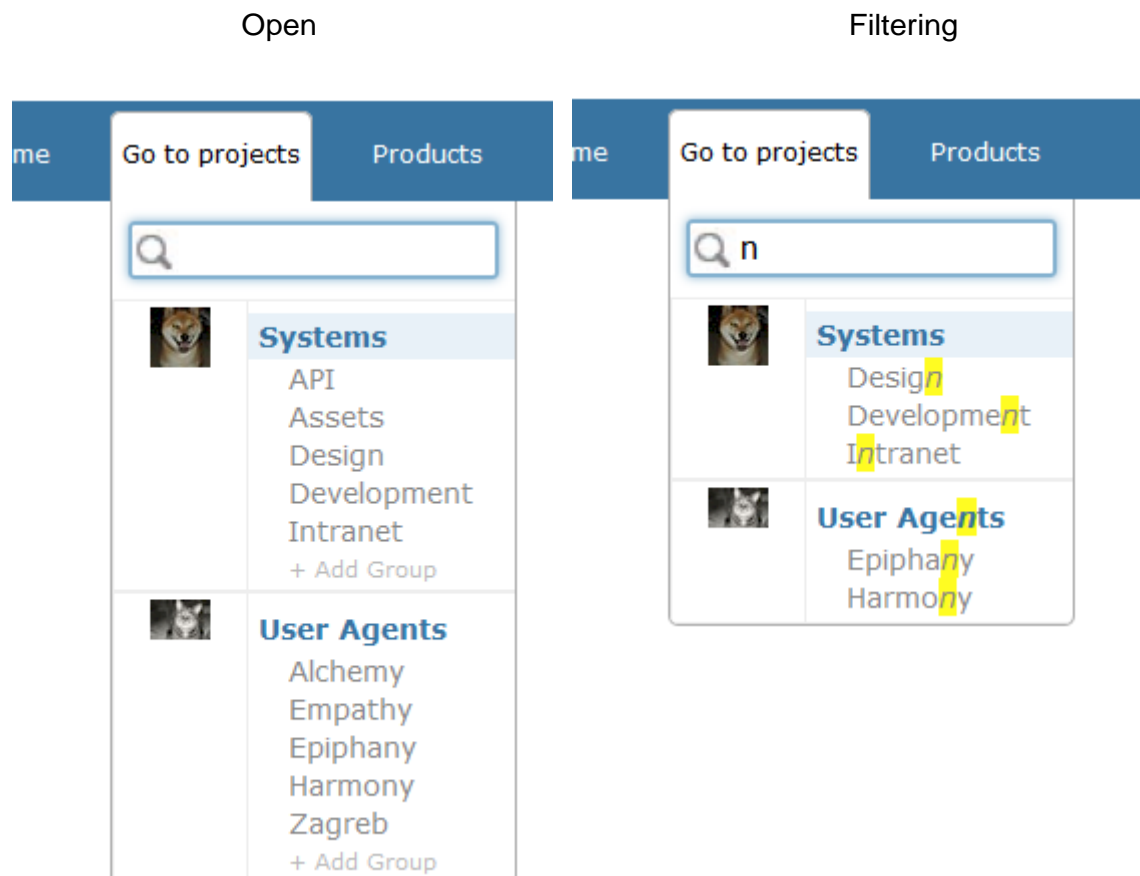
1. Assignment

Implement the component below using JavaScript, HTML, and CSS. You are free to choose the framework and structure.

Use Case

Users should be able to easily switch between their project groups from the global navigation. It should provide an overview of the groups in relation to their global projects.

Mock-Up



Backend Requirements

1. Set up the server

- a. Install Nodejs (<https://nodejs.org/en/>)
- b. Use the Expressjs (<http://expressjs.com/>) framework to serve the data that is contained in the data.js file (attached) on the /projects endpoint. E.g if your server is running on localhost:3000, the data will be received via localhost:3000/projects.

Front End Requirements

1. Filtering

- a. Users with many groups should be able to filter groups by a search query they type into a text input field. Match any string in group and project name.
- b. Search should ignore casing of group/project names.
- c. If the user clears the search query, it should render all groups and projects.
- d. If a group is matching the search query, its parent project should be visible, even if the query is not matching the project name.
- e. After a search/filter has been completed, the first item (group or project) needs to be highlighted.
- f. The matching part of the search query in the group/project name should be highlighted with a yellow colour (Google search style)

2. Keyboard navigation

- a. Up/Down arrows should navigate up and down in the list, and move the highlighting of the active item.
- b. Enter/Return should go to the link of the active element.

2. Submission

Submit a copy of your code and a readme containing installation instructions to ventl.frederick@optimi.co.za

3. Data.js

```
data = [{  
  "id": 736,  
  "name": "Systems",  
  "image": {  
    "link": "http://i.stack.imgur.com/8KA9j.jpg?s=32&g=1"  
  },  
  "groups": [{  
    "id": 2168,  
    "name": "API",
```

```

        "url": "https://www.itschools.co.za/api/"
    },
    {
        "id": 11955,
        "name": "Assets",
        "url": "https://www.itschools.co.za/assets/"
    },
    {
        "id": 3179,
        "name": "Design",
        "url": "https://www.itschools.co.za/design/"
    },
    {
        "id": 207,
        "name": "Development",
        "url": "https://www.itschools.co.za/development/"
    },
    {
        "id": 70,
        "name": "Intranet",
        "url": "https://www.itschools.co.za/intranet/"
    }
],
"url": "https://www.itschools.co.za/projects"
},
{
    "id": 44315,
    "name": "User Agents",
    "image": {
        "link": "https://cdn.pixabay.com/photo/2018/09/24/08/31/pixel-cells-3699334_960_720.png"
    },
    "groups": [{
        "id": 191599,

```

```
        "name": "Alchemy",
        "url": "https://www.itschools.co.za/tools/alchemy"
    },
    {
        "id": 86822,
        "name": "Empathy",
        "url": "https://www.itschools.co.za/tools/empathy"
    },
    {
        "id": 86297,
        "name": "Epiphany",
        "url": "https://www.itschools.co.za/tools/epiphany"
    },
    {
        "id": 131837,
        "name": "Harmony",
        "url": "https://www.itschools.co.za/tools/hamony"
    },
    {
        "id": 174338,
        "name": "Zagreb",
        "url": "https://www.itschools.co.za/tools/zagreb"
    }
],
"url": "https://www.itschools.co.za/tools"
}
];
```