

Assesment

Task 1: UI Assesment

Build a general dynamic table filter component that generates a filter query object in a specific format and consume it to filter a table with static data

Step 1: Create a UI table component with the following columns

- Pretty Name: Name , Type: string, key: name
- Pretty Name: Screen Name, type: string, key: screen_name
- Pretty Name: Followers Count, type: number, key: followers_count
- Pretty Name: Following Count, type: number, key: following_count
- Pretty Name: Location, type: string. key: location
- Pretty Name: Verified, type: boolean, key:verified

This table should take the filter in the following format and filter the table contents accordingly

```
{
  conditions: [
    {
      id: 'name',
      operator: 'CONTAINS'
      value: 'Redef',
    },
    {
      id: 'screen_name',
      operator: 'CONTAINS'
      value: 'Redef',
    }
  ]
}
```

STEP 2: Build a filter component that generates the filter query

- In this filter it should be possible to add any number of entries by hitting the add

FILTERS

+ Add Filter

Showing 223412 records

- And in each should be able to add column name, operator and value

FILTERS

Where

▼

▼

Value

+ Add Filter

Screen Name
Followers

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FILTERS

Where

Followers
▼

>=
▼

>=
<=

Value

+ Add Filter

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FILTERS

Where

Followers
▼

>=
▼

500

+ Add Filter

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- In the second filter entry you should be able to add a filter (AND / OR) and it should propagate in the subsequent filters

FILTERS

Where	Followers ▾	>= ▾	500	🗑️
AND ▾	Location ▾	contains ▾	Chennai	🗑️
AND	Verified ▾	Equals ▾	Yes ▾	🗑️
+ Add Filter				

Showing 223412 records

In the above diagram, the first column has Where, AND/OR as explained.

The second column (Drop Down) is the pretty name of the list of columns in the table.

The third column is the operator column, where the corresponding operator's pretty name for the second column is picked from the dropdown

The final column is a is a text box for all other types and dropdown for boolean fields with pretty names Yes and No for true and false as dropdowns

Filters:

list of operators for each table column type

string:

- key: CONTAINS, Pretty Name: Contains

number:

- key: GTE, Pretty Name: >=
- key: LTE, Pretty Name: <=

boolean:

- key: EQ, Pretty Name: Equals

Note that all displays in the HTML should hold the pretty name but the query should hold only the keys and not the pretty name

Sample Output:

Ps. No need of the profile image

FILTERS

Where

Followers

>=

500

AND

Location

contains

Chennai

AND

Verified

Equals





Yes

AND

Value

+ Add Filter

Showing 223412 records

Name	Screen N...	Followers...	Friends C...	Location	Verified
 Donuts4Hair🌐🚀📺...	donuts4h...	105	823	Glendora, CA	×
 Aditya Thakkar	adityatha...	5	139	Toronto, ON	×
 Bilal Tariq	Beehtrix	1274	733	Dubai x Toronto	×
 Taylor Jorden	TaylorJor...	20	787	Boulder, CO	×
 Mevrouw de Vries	Mevrwde...	1	70	Nederland	×
 Belvin Montgomery	MichaelH	60	791		×