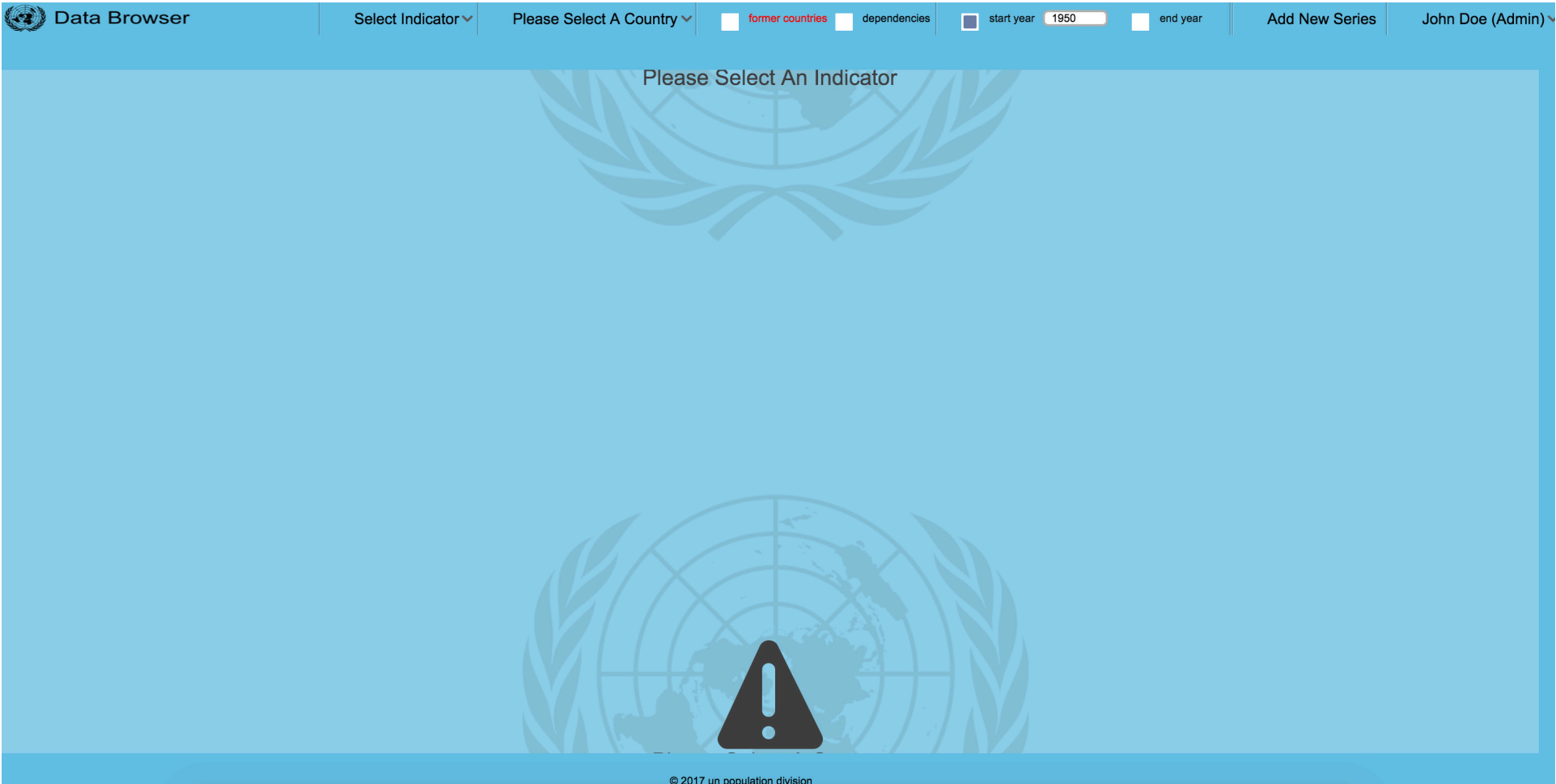


## Design Recommendations

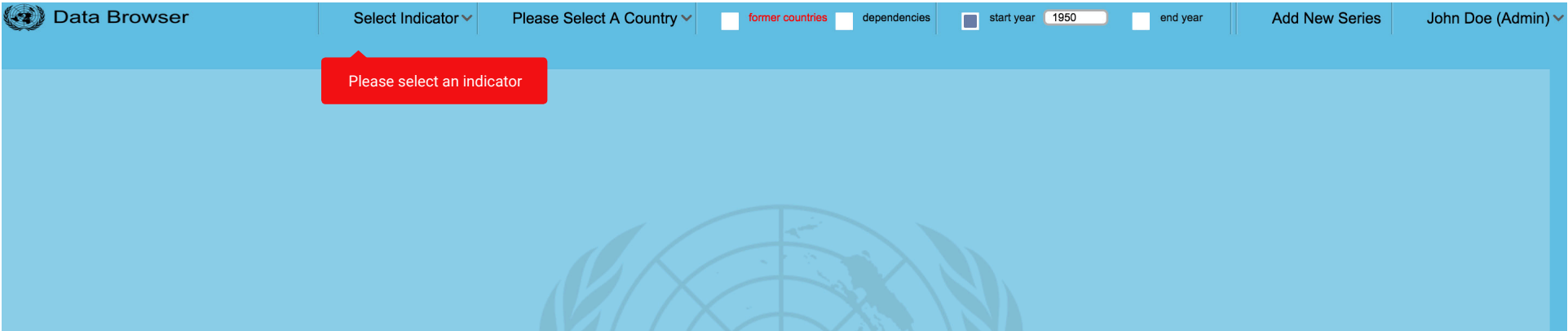
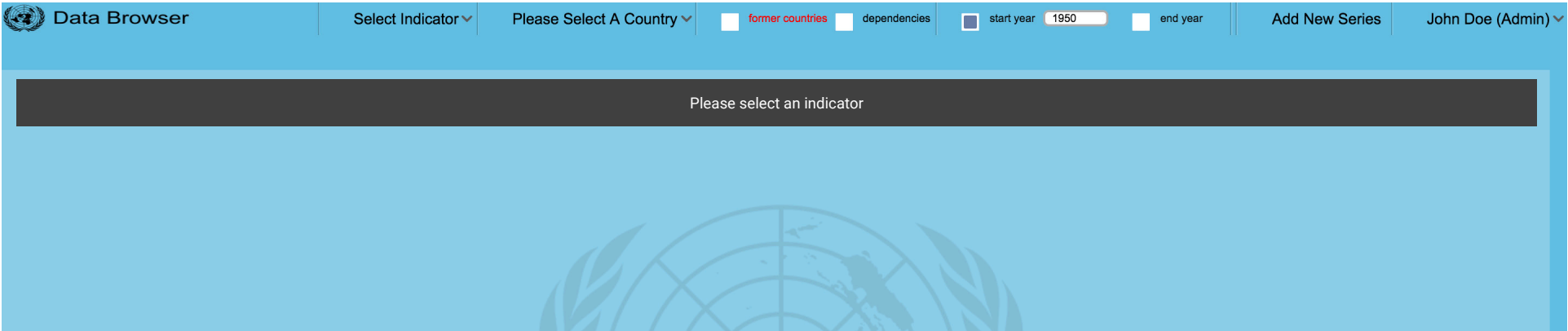
Below is a set of recommendations on various aspects of the user-interface within the Data Browser demo. Because this is not a holistic design engagement, the different recommendations should be viewed in isolation. For instance, some recommendations could be dis-regarded while others could be implemented - each does not depend on the other.

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**Page background:** Currently, the loader and selection notations are appearing as the background element, and appearing within a scroll. I would suggest that the background becomes a solid color with the United Nations mark in the background and without the dark grey notation+icon on top.



**Please select an indicator:** The notation for “Please Select An Indicator” could function well closer to the indicator-dropdown. A common convention is to use a bar across the top, or directly point to the form field. Below are two quick mock-ups.



**Page Loader:** Because each call to the server changes the page-load time, a loading bar could communicate how much time to expect, and that the call to the server went through. Link to AngularJS: <https://material.angularjs.org/latest/demo/progressLinear>

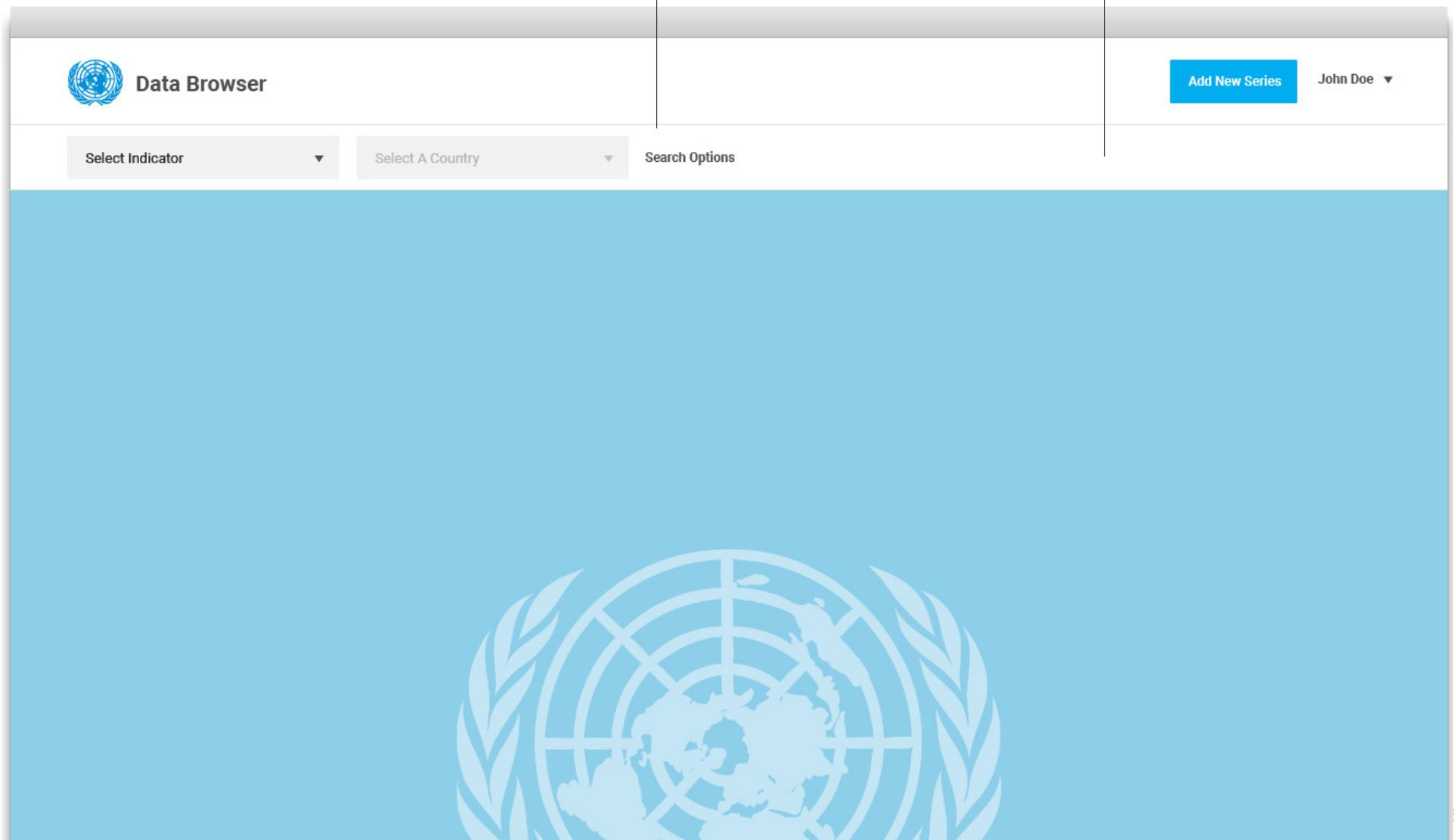


**Top-Navigation:** Within the top navigation, I can see that there are two main groups of functionality. A user can access account-related functionality such as “add new series”, and account information, and they can also run a search within the database. Because the top navigation becomes difficult to show everything at the smaller breakpoints, a separation in the two groups of functionality could work well. Below is a rough mock-up showing a separation. The layout also allows a little more padding around the logo. Note: the following recommendations around the form fields show this updated navigation, but they can live with the existing build as well.

Logo and main type become un-stretched. On the current build, they look a little flattened

I'll go into details around this functionality in addition to the date-selector in the upcoming slides

The visual separation between the navigation and the main content area could help distinguish what is utility, and what is the main content.



**Search Fields:** Because the form fields need to account for future functionality (selecting from a list of indicators, selecting from nested categories) and various use-cases, the design could help reduce and guide the user into making a selection without overwhelming them with options. Below, and on the next few pages, are some various scenarios being played out alongside design exploration.

Since the user has to make a selection from the *indicator* field first, calling attention to it by differentiating the active field from the inactive field could give a nod to the user to pay attention to the select indicator first. Stylistically, the text and the arrow are darker.

Since the *Select a Country* is secondary and should not be available until a user selects an indicator, I would suggest we make it inactive. Stylistically, the text and the arrow are a lighter grey. Link to Kendo ex: <http://demos.telerik.com/kendo-ui/dropdownlist/cascadingdropdownlist>

The functionality for *former countries* and *dependencies* is attached to the *Select a Country* content and it is secondary to the first two fields, so in the design, I explored two variations where it appears more secondary, and appears attached to the use.

To see the search options attached, a user would click on either the icon or the “search options” to see the multi-select dropdown. Since we’re able to show more information in the dropdown, we could add a title, plus the verb “show” to give more indication what the two options do. Link to AngularJS demo with the multi-select check-boxes, under “Option Groups”: <https://material.angularjs.org/latest/demo/select>

The image displays three variations of a 'Data Browser' user interface. Each variation features a header with the United Nations logo and the title 'Data Browser'. On the right side of the header, there is a blue 'Add New Series' button and a user profile 'John Doe' with a dropdown arrow. Below the header, there are three main input fields: 'Select Indicator' (with a dark arrow), 'Select A Country' (with a light grey arrow), and 'DATES' (with a range from 1950 to 2017). A large blue bar is positioned below these fields. In the third variation, a 'COUNTRY SEARCH OPTIONS' dropdown is shown, containing two checkboxes: 'Show former countries' and 'Show dependencies'. Lines from the text annotations point to specific elements in these variations: the first variation points to the 'Select Indicator' field; the second variation points to the 'Select A Country' field; and the third variation points to the 'COUNTRY SEARCH OPTIONS' dropdown.

Once a user clicks on the first field, a visual treatment that brings the field off of the page could help bring attention to it. So instead of the grey field, a slight shadow could be applied to show that the field is active. This treatment also allows the call-to-action remains within the field. In the future, when there are more indicators, I would suggest the *Indicator* field allows for type-filtering. Link to Kendo demo: <http://demos.telerik.com/kendo-ui/dropdownlist/cascadingdropdownlist>

A small recommendation is to capitalized the key words in the Indicator. So age becomes Age, and sex becomes Sex. This will help when there are more indicators available for selection by calling attention to the key words.

Because there will be more indicators in the future, I would suggest showing a subtle hover-state to show which indicator the user is hovering over.

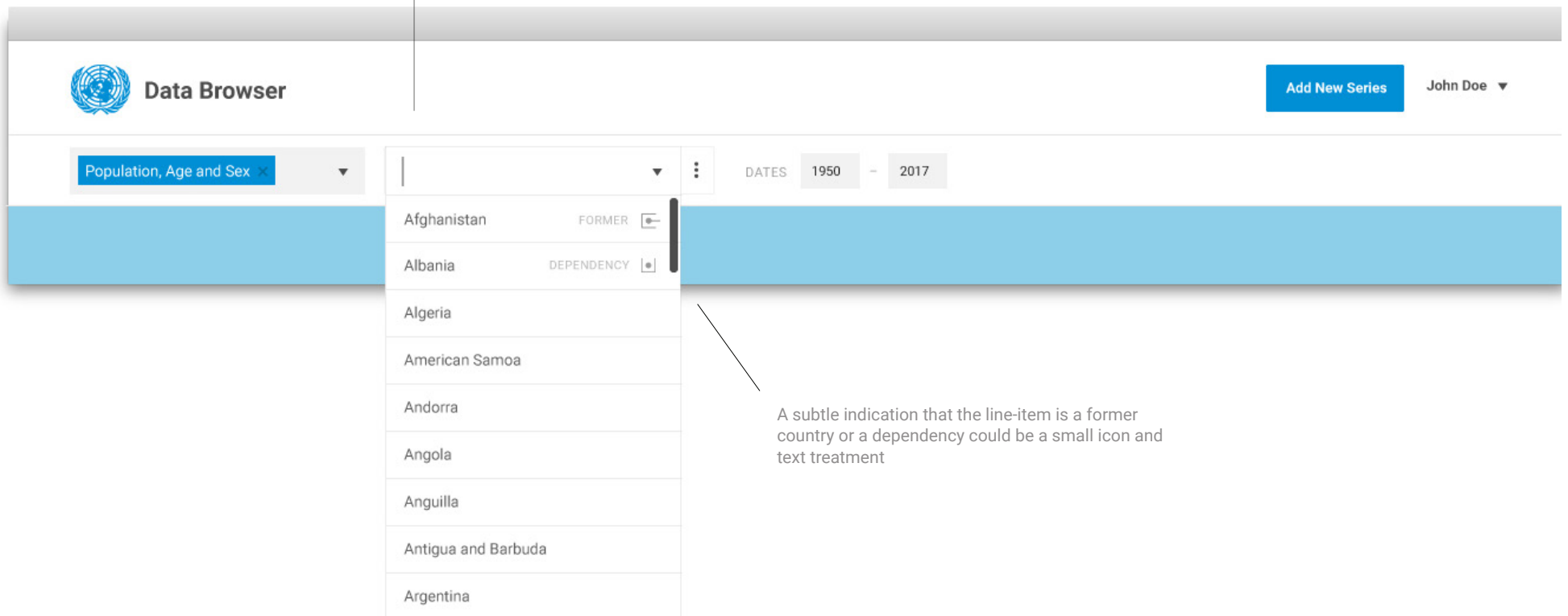
When an indicator is then selected, the form field would go back to its original state (grey background, darker text and arrow), but there could also be a quick-reset indicator to clear the query. Link to Kendo demo: <http://demos.telerik.com/kendo-ui/combobox/grouping>

After the indicator is selected, the *Select a Country* field would then become active (darker text, arrow).

The image displays three sequential screenshots of the United Nations Data Browser interface, illustrating proposed user interface changes for the indicator selection field. Each screenshot shows the top navigation bar with the UN logo, 'Data Browser' title, 'Add New Series' button, and user profile 'John Doe'. Below this is a search bar and a 'Select A Country' dropdown. The 'DATES' section shows '1950' and '2017'. The main content area is a large blue rectangle.

- Top Screenshot:** The indicator selection field is in its default state, showing 'Population by Age and Sex' with a downward arrow. A line points from the text 'A small recommendation is to capitalized the key words in the Indicator...' to this field.
- Middle Screenshot:** The indicator selection field is highlighted with a subtle shadow and a hand cursor, indicating a hover state. A line points from the text 'Because there will be more indicators in the future, I would suggest showing a subtle hover-state to show which indicator the user is hovering over.' to this field.
- Bottom Screenshot:** The indicator selection field is now active, showing 'Population, Age and Sex' with a blue background and a close button (X). The 'Select A Country' field is now active, showing 'Select A Country' with a darker background and a downward arrow. A line points from the text 'After the indicator is selected, the Select a Country field would then become active (darker text, arrow).' to this field.

When a user clicks on the Select a Country field, the same styling treatment where the white field with a slight shadow could be applied to lift it off of the page slightly. Since there are a lot of country options within the dropdown, functionality that allows the user to type into the field to jump the search would help. Similar to the current build, lines separating the countries helps to break up the list. Link to Kendo demo: <http://demos.telerik.com/kendo-ui/combobox/>





When a user starts to type, the corresponding Country could become highlighted, and the dropdown scrolls down to that location rather than filtering out the Countries. Link to Kendo demo: <http://demos.telerik.com/kendo-ui/combobox/grouping>

The screenshot displays the United Nations Data Browser interface. At the top left is the UN logo and the text "Data Browser". On the top right, there is a blue button labeled "Add New Series" and a user profile "John Doe" with a dropdown arrow. Below the header, there is a main navigation bar. On the left of this bar is a dropdown menu currently showing "Population, Age and Sex" with a close icon and a downward arrow. In the center is a country selection dropdown showing "Ethio" with a downward arrow and a three-dot menu icon. To the right of the country dropdown is a "DATES" section with input fields for "1950" and "2017" separated by a minus sign. A vertical line from the text above points to the country dropdown. The country dropdown menu is open, showing a list of countries: Ethiopia, Faeroe Island, Falkland Islands (Malvinas), Fiji, Finland, France, French Guiana, French Polynesia, and Gabon. The "Ethiopia" option is highlighted with a grey background. A blue horizontal bar is visible behind the dropdown menu.

The below is another example showing of both the *Indicator* and the *Country* selected. This example is of a separate message that acts as a title for the main content area, and summarizing what is being showed.

The screenshot displays the UN Data Browser interface. At the top left is the UN logo and the text "Data Browser". On the top right, there is a blue button labeled "Add New Series" and a user profile "John Doe" with a dropdown arrow. Below this is a filter bar containing two dropdown menus: "Population, Age and Sex" and "Afghanistan", each with a close button (X) and a dropdown arrow. To the right of these is a "DATES" section showing "1950" and "2017" with a minus sign between them, followed by a range slider. A "Reset" link is on the far right. At the bottom of the filter bar, a message states: "Showing 9 Data Records for Population by Age and Sex in Afghanistan".

This is an example of two indicators selected within the *indicator* dropdown

The screenshot displays the United Nations Data Browser interface. At the top left is the UN logo and the text "Data Browser". On the top right, there is a blue button labeled "Add New Series" and a user profile "John Doe" with a dropdown arrow. The main selection area contains three blue buttons: "Pop, Age & S...", "Pop, Growth", and "Afghanistan", each with a close icon. A vertical line from the text above points to the "Pop, Growth" button. To the right of these buttons is a "DATES" section with "1950" and "1993" in grey boxes, separated by a minus sign, and a horizontal range slider. A "Reset" link is on the far right. At the bottom, a status bar reads "Showing 9 Data Records for Population by Age and Sex and Population Growth in Afghanistan".

**Data-Series Grid:** Within the main data-view, the type sizes and grey-white alteration between the elements looks really great already. We could do a few small things to improve the user-experience and to show as much relevant information as possible for the user and to account for future responsive screens. Below is a mock-up showing a few tweaks, outlined below.

To make sure we can show all of the columns, even at the smaller screen-widths, we can reduce the padding that appears on the right of each column. In the case that there is a column that consistently has a lot of text, we could introduce a “...” treatment that, on hover, shows the additional text.

For the indicator column, I am suggesting we split into "indicator" and "age distribution" columns

For all of the columns that allow sorting, showing the arrow indicator could help expose all of the columns that have this functionality. To separate the sorted column that is active from those that are not, the interface could have an underlined teal bar in addition to a change in the arrow color.

The term "data" is mentioned at the beginning of many columns. I would suggest we remove that term to save space.

[illegible]

**Filters:** Because some of the filters are more primary than others, I would suggest introducing a visual treatment that exposes that hierarchy in a subtle way. This could allow for the filters to become more streamlined and less overwhelming.

A title to the filters could add some context to the functionality.

A convention that could work well to both create hierarchy and to be more compatible with responsive is a collapse/uncollapse treatment. On load of the query, the more important filters could be exposed, while the secondary filters remain collapsed.

If a filter option requires more information, a tooltip could be used. When the user hovers over the "i", more information can appear.

Because these separate filters require another call to the server, clicking on the "expand" button could run that call and expose the options underneath.

FILTER DATA QUERY

Age Distribution i

☒ Abridged

☐ Complete

Location Type i

☒ Whole Area

☐ Rural

☐ Urban

Type of Subgroup

☒ Total

Data Process Type

☒ Census

☐ Estimate

Process i

This is more information on the filter.

☐

Status

☐

Statistical Concept

☐

Data Type

☐

FILTERS

Age Distribution i

☒ Abridged

☐ Complete

Location Type i

☒ Whole Area

☐ Rural

☐ Urban

Type of Subgroup

☒ Total

Data Process Type

☒ Census

☐ Estimate

Process i

☐

Source

☐

Status

☐

Statistical Concept

☐

Data Type

☐

Sex

☒ Male

☒ Female

If a user selects one of the collapsed filters, both check-boxes will be selected by default.

**Click Cursor:** The type of cursor that appears when hovering or moving over data acts as an indicator for what functionality exists. Currently, the “click cursor” (☞) is appearing when the user hovers over pieces of data that don’t have additional functionality behind it. I would swap back to the pointer cursor when that’s the case (☞). Attached is an example of where that functionality is appearing.

**Data Browser**

Population by age and sex ▾
Bahrain ▾
☐ former countries
☐ dependencies
☐ start year 1950
☐ end year

Add New Series

Total records: 872

Series Query Result

Table View

Record View (Short)

Record View (Long)

Database View

**Population Type**

☒ Abridged
☐ Complete

**Type of Location**

☐ Rural
☐ Urban
☒ Whole area 872

**Type of Subgroup**

☒ Total or All groups

**Data Process Type**

☒ Census 872
☐ Estimate

Data Process

☒ Census 872

Data Source

Latest Available Year

☐ DYB 832
☒ OECD 1980 40

**Data Status**

☒ Final 872

**Statistical Concept**

☐ De-facto
☐ De-jure
☐ Unknown

**Data Type**

☐ Direct (standard abridged age groups computed - Unknown redistributed)
☐ Direct (standard abridged age groups computed)
☒ Population by age and sex

Bahrain Population by age and sex - abridged Whole area Total / All groups / Whole group Census Census DYB Final DF Direct (abridged - Unk.Redist) Fair

Bahrain Population by age and sex - abridged Whole area Total / All groups / Whole group Census Census DYB Final DF Pop. by age & sex Fair

Bahrain Population by age and sex - abridged Whole area Total / All groups / Whole group Census Census OECD 1980 Final DK Pop. by age & sex Low

Bahrain Population by age and sex - abridged Whole area Total / All groups / Whole group Census Census DYB Final DJ Direct (abridged) Fair

Bahrain Population by age and sex - abridged Whole area Total / All groups / Whole group Census Census DYB Final DJ Pop. by age & sex Fair

Bahrain Population by age and sex - abridged Whole area Total / All groups / Whole group Census Census DYB Final DF Direct (abridged - Unk.Redist) Fair

Age	Location	Both Sexes	Male	Female
< 1	Whole area	11947.0469	6180.042	5767
1-4	Whole area	47921.19	24781.17	23140
5-9	Whole area	54162.21	27793.19	26369
10-14	Whole area	46822.18	23812.16	23010
15-19	Whole area	35410	17768	17642
76+	Whole area	1207	552	655
20-24	Whole area	41543	24838	16705
25-29	Whole area	44168	30492	13676
30-34	Whole area	31186	22098	9088
35-39	Whole area	21271	14114	7157
40-44	Whole area	17842	11425	6417
45-49	Whole area	13400	8225	5175
50-54	Whole area	10623	6368	4255
55-59	Whole area	6793	4092	2701
60-64	Whole area	5336	3029	2307
65-69	Whole area	2867	1589	1278
70-74	Whole area	2386	1202	1184
75-79	Whole area	1112	593	519
80-84	Whole area	963	469	494
85+	Whole area	436	212	224
90+	Whole area	152.0006	84.00057	68

Bahrain Population by age and sex - abridged Whole area Total / All groups / Whole group Census Census DYB Final DF Pop. by age & sex Fair

Age	Location	Both Sexes	Male	Female
< 1	Whole area	11947	6180	5767
1-4	Whole area	36110	18276	17834
5-9	Whole area	37487	18899	18588
10-14	Whole area	34213	17206	17007
15-19	Whole area	35410	17768	17642

United Nations - Data Browser - User Interface Recommendations | Katherine Fisher

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**Footer:** I can see how the footer is trying to remain stuck to the bottom of the interface, no matter what size the browser window, especially to speak to the fact that the interface is a data-portal. But thinking about future functionality and for responsive screens, I would suggest that it detaches from the bottom of the screen in cases where the data-series list is longer. This would require us to talk through the different scenarios and responsive screens.

