

Hello,

In this package you can find file **index.html**. If you open it in browser, you will get view of simple table with filled some data and toolbar to control table.



Title	Author	Quantity	Unit price	Total (Quantity * Unit price)
Day of the Dragon	Richard A. Knaak	10	9	
A Wizard of Earthsea	Ursula K. Le Guin		10	40
Homeland	Robert A. Salvatore	8		96
Canticle	Robert A. Salvatore	13	23	
Gamedec. Granica rzeczywistości	Marcin Przybyłek		25	50
The Night Has Come	Stephen King	30		900
The Sphinx	Graham Masterton	3		300
Charnel House	Graham Masterton		20	60
The Devils of D-Day	Graham Masterton	10	16	

Functionalities of toolbar are not implemented, and this is Your role to make them work. In file **script.js** you will find placeholder methods for each of function and initially they only throw error in browser console. Below you will find description of each section of toolbar functionalities.

Search



Search is simple functionality for filtering rows in table. You can trigger “search” two ways (both are correct):

1. On each search input change
2. On click button (magnifier icon) next to search input.

Notice that this search has additional button that should restore to initial state (before any search)

Example:


1. Type “Day” into search input and click on button.



Title	Author	Quantity	Unit price	Total (Quantity * Unit price)
Day of the Dragon	Richard A. Knaak	10	9	
The Devils of D-Day	Graham Masterton	10	16	

Result: Table shows only rows that values fit to "Day" string

2. Click on search restore button



The toolbar contains a search input field, a search icon (magnifying glass), a search restore icon (circular arrow), a search clear icon (eye with slash), a search filter icon (eye), a search refresh icon (circular arrow), a table icon, a table edit icon (pencil), a table plus icon (+), a table equals icon (=), and a table refresh icon (circular arrow).

Title	Author	Quantity	Unit price	Total (Quantity * Unit price)
Day of the Dragon	Richard A. Knaak	10	9	
A Wizard of Earthsea	Ursula K. Le Guin		10	40
Homeland	Robert A. Salvatore	8		96
Canticle	Robert A. Salvatore	13	23	
Gamedec. Granica rzeczywistości	Marcin Przybyłek		25	50
The Night Has Come	Stephen King	30		900
The Sphinx	Graham Masterton	3		300
Charnel House	Graham Masterton		20	60
The Devils of D-Day	Graham Masterton	10	16	

Result: Clear search input and show all rows in table

Column visibility



Column visibility has two functions + restore (like in search).

First function should hide in table **first visible** column, and it is triggered by clicking on button (crossed eye icon). Second function should show **first hidden** column, and it is triggered by clicking on button (eye icon).

Example:

1. Click on first button in column visibility section

Author	Quantity	Unit price	Total (Quantity * Unit price)
Richard A. Knaak	10	9	
Ursula K. Le Guin		10	40
Robert A. Salvatore	8		96
Robert A. Salvatore	13	23	
Marcin Przybyłek		25	50
Stephen King	30		900
Graham Masterton	3		300
Graham Masterton		20	60
Graham Masterton	10	16	

Result: Column "Title" is hidden

2. Make another click on first button in column visibility section

Quantity	Unit price	Total (Quantity * Unit price)
10	9	
	10	40
8		96
13	23	
	25	50
30		900
3		300
	20	60
10	16	

Result: Column "Author" is hidden.


3. Click on second button in column visibility section



Title	Quantity	Unit price	Total (Quantity * Unit price)
Day of the Dragon	10	9	
A Wizard of Earthsea		10	40
Homeland	8		96
Canticle	13	23	
Gamedec. Granica rzeczywistości		25	50
The Night Has Come	30		900
The Sphinx	3		300
Charnel House		20	60
The Devils of D-Day	10	16	

Result: Column "Title" is visible (counting from left this is first hidden column)

4. Click on column visibility restore button



Title	Author	Quantity	Unit price	Total (Quantity * Unit price)
Day of the Dragon	Richard A. Knaak	10	9	
A Wizard of Earthsea	Ursula K. Le Guin		10	40
Homeland	Robert A. Salvatore	8		96
Canticle	Robert A. Salvatore	13	23	
Gamedec. Granica rzeczywistości	Marcin Przybyłek		25	50
The Night Has Come	Stephen King	30		900
The Sphinx	Graham Masterton	3		300
Charnel House	Graham Masterton		20	60
The Devils of D-Day	Graham Masterton	10	16	

Result: All columns are visible

Column's operations



On numeric type of columns, you can make some additional simple operations.

Example:

1. Click on first button (expand icon)



Title	Author	Quantity	Unit price	Total (Quantity * Unit price)
Day of the Dragon	Richard A. Knaak	10	9	
A Wizard of Earthsea	Ursula K. Le Guin		10	40
Homeland	Robert A. Salvatore	8		96
Canticle	Robert A. Salvatore	13	23	
Gamedec. Granica rzeczywistości	Marcin Przybyłek		25	50
The Night Has Come	Stephen King	30		900
The Sphinx	Graham Masterton	3		300
Charnel House	Graham Masterton		20	60
The Devils of D-Day	Graham Masterton	10	16	

Result: Are empty numeric cells has been mark using cell styling

2. Click on restore button



Title	Author	Quantity	Unit price	Total (Quantity * Unit price)
Day of the Dragon	Richard A. Knaak	10	9	
A Wizard of Earthsea	Ursula K. Le Guin		10	40
Homeland	Robert A. Salvatore	8		96
Canticle	Robert A. Salvatore	13	23	
Gamedec. Granica rzeczywistości	Marcin Przybyłek		25	50
The Night Has Come	Stephen King	30		900
The Sphinx	Graham Masterton	3		300
Charnel House	Graham Masterton		20	60
The Devils of D-Day	Graham Masterton	10	16	

Result: View is restored to initial state.

3. Click on second button (mark icon)



Title	Author	Quantity	Unit price	Total (Quantity * Unit price)
Day of the Dragon	Richard A. Knaak	10	9	90
A Wizard of Earthsea	Ursula K. Le Guin	40	10	40
Homeland	Robert A. Salvatore	8	12	96
Canticle	Robert A. Salvatore	13	23	299
Gamedec. Granica rzeczywistości	Marcin Przybyłek	2	25	50
The Night Has Come	Stephen King	30	30	900
The Sphinx	Graham Masterton	3	100	300
Charnel House	Graham Masterton	3	20	60
The Devils of D-Day	Graham Masterton	10	16	160

Result: Empty numeric cells are filled with data according to expression: value of column **"Quantity"** * value of **"Unit price"** = **"Total"**

4. Click on restore button



Title	Author	Quantity	Unit price	Total (Quantity * Unit price)
Day of the Dragon	Richard A. Knaak	10	9	
A Wizard of Earthsea	Ursula K. Le Guin		10	40
Homeland	Robert A. Salvatore	8		96
Canticle	Robert A. Salvatore	13	23	
Gamedec. Granica rzeczywistości	Marcin Przybyłek		25	50
The Night Has Come	Stephen King	30		900
The Sphinx	Graham Masterton	3		300
Charnel House	Graham Masterton		20	60
The Devils of D-Day	Graham Masterton	10	16	

Result: View is restored to initial

5. Click on third button (plus/minus icon)

The screenshot shows a web application interface. At the top, there is a search bar and a toolbar with several icons. The third icon from the left, which is a plus/minus sign, is being clicked by a mouse cursor. Below the toolbar is a table with the following columns: Title, Author, Quantity, Unit price, and Total (Quantity * Unit price). The table contains data for several books. An alert window is displayed over the table, showing the text "This page says Found 9 empty cells" and an "OK" button.

Title	Author	Quantity	Unit price	Total (Quantity * Unit price)
Day of the Dragon				40
A Wizard of Earthsea				96
Homeland				
Canticle				
Gamedec. Granica rzeczywistości	Marcin Przybyłek	25		50
The Night Has Come	Stephen King	30		900
The Sphinx	Graham Masterton	3		300
Charnel House	Graham Masterton	20		60
The Devils of D-Day	Graham Masterton	10	16	

Result: Throw alert window with count of all empty numeric fields

6. Click on fourth button (equal icon)

The screenshot shows the same web application interface as before. The fourth icon from the left in the toolbar, which is an equals sign, is being clicked by a mouse cursor. The table of books is visible. An alert window is displayed over the table, showing the text "This page says Sum of 'Total (Quantity * Unit price)' equals 1446" and an "OK" button.

Title	Author	Quantity	Unit price	Total (Quantity * Unit price)
Day of the Dragon				40
A Wizard of Earthsea				96
Homeland				
Canticle				
Gamedec. Granica rzeczywistości	Marcin Przybyłek	25		50
The Night Has Come	Stephen King	30		900
The Sphinx	Graham Masterton	3		300
Charnel House	Graham Masterton	20		60
The Devils of D-Day	Graham Masterton	10	16	

Result: Throw alert window with sum of values of **last visible numeric column**

Merging data

In code you will find variables called *additionalDataFromBooksDB* and *additionalMetadataFromBooksDB*.

You need to modify the code to display new data in existing table.

Example:



Title	Author	Quantity	Unit price	Total (Quantity * Unit price)	Genre	Pages	Rating
Day of the Dragon	Richard A. Knaak	10	9		fantasy	378	3.81
A Wizard of Earthsea	Ursula K. Le Guin		10	40	fantasy	183	4.01
Homeland	Robert A. Salvatore	8		96	fantasy	343	4.26
Canticle	Robert A. Salvatore	13	23		fantasy	320	4.03
Gamedec. Granica rzeczywistości	Marcin Przybyłek		25	50	cyberpunk	364	3.89
The Night Has Come	Stephen King	30		900	post apocalyptic	186	4.55
The Sphinx	Graham Masterton	3		300	horror	207	3.14
Charnel House	Graham Masterton		20	60	horror	123	3.61
The Devils of D-Day	Graham Masterton	10	16		horror	243	3.62

Data operations

You need to create another table with small summary, using the data you have at the moment.

It should contain information about:

- Author
- How many titles we have
- Total Quantity
- Total Revenue
- Average Quantity
- Average Unit Price

Example:

Author	Titles	Total Quantity	Total Revenue	Avg Quantity	Avg Unit Price
Richard A. Knaak	1	10	90	10	9
Ursula K. Le Guin	1	0	0	0	10
Robert A. Salvatore	2	21	299	10.5	11.5
Marcin Przybyłek	1	0	0	0	25
Stephen King	1	30	0	30	0
Graham Masterton	3	13	160	4.33	12

Good luck!