

## Front End Developer challenge @ Tribes.AI

Create a web panel with following elements:-

1. A button named **Randomize Data** to generate a random employee dataset.

- When you click on this button it should be generating a dataset of 100k employees' details in JSON format and feed it to the datatable.
- Each employee record will contain the following keys
  1. ID // Unique Field
  2. JobTitle // Set it from any type of job list
  3. EmailAddress // firstname\_lastname@xyz.com
  4. FirstName LastName // Any two words of random string
  5. Country
  6. Salary in Q1
  7. Salary in Q2
  8. Salary in Q3,
  9. Salary in Q4
  10. Working Hours in Q1
  11. Working Hours in Q2
  12. Working Hours in Q3
  13. Working Hours in Q4

Each time we click on this button a page loader will be displayed and the data gets generated and updated in data table

2. A input field along with a button for search/filtering option

- This input field will act as a global filter to the datatable. When clicking on the search button, whatever text inside the input field gets searched, the dataset gets filtered and the result dataset will be displayed in the data table.

3. A datatable to display the data we generated from the **Randomize Button** or the filtered data set from the global search field.
















The data table will have following columns

1. Unique ID
2. Name
3. Job title
4. Country
5. Salary for Q1 // Also add a Checkbox to column header for select the column
6. Salary for Q2 // Same as above
7. Salary for Q3 // Same as above
8. Salary for Q4 // Same as above
9. Total Quarterly Salary // Dynamic column , total salary of selected quarters
10. Total working hours // Dynamic column , total working hours of a year
11. Action column for (View,Edit, Delete)

**Datatable should at least have following features** (adding something proactively would be a big plus)

1. All Salary for Quarter columns will have checkbox in column header to select/unselect
2. Show pagination
3. When click on the view button show employee's all details in a popup in the same page along with a "mix line bar" chart showing employee salary and working hours in Y axis and 4 quarters in X Axis. Use any chart library of your choice.
4. The delete action will remove the row from the table as well as from the dataset

**Table Example:-**

ID	Job Title	Email Address	FirstName LastName	Countr y	<input checked="" type="checkbox"/> Salary in Q1	<input type="checkbox"/> Salary in Q2	<input checked="" type="checkbox"/> Salary in Q3	<input type="checkbox"/> Salary in Q4	Total salary (Q1 + Q3)	Total Hours (Q1 + Q3)	Actions View & Delete
1	Webmaster	Matt_Adams@sheye.org	Matt Adams	Panama	2537	8662	6548	2564	9085	700	  
2	Healthcare Specialist	Mavis_Scott@extex.org	Mavis Scott	Italy	2654	8990	5623	6523	8277	850	  
3	Front Desk Coordinator	Johnathan_Booth@naof.biz	Johnathan Booth	Canada	5244	7845	8254	8569	13498	744	  
4	Cashier	Jayden_Parsons@mafthy.com	Jayden Parsons	India	3250	6589	9800	8002	13050	699	  
5	Software Engineer	Brad_Vernon@grannar.com	Brad Vernon	Spain	8451	5258	1547	8332	6805	902	  

Example of 'Mix line bar chart':- <https://www.microsoft.com/en-us/microsoft-365/blog/wp-content/uploads/sites/2/2012/06/Excel-charts-11.png>

## CONDITIONS

You have 2 days to complete the assignment.

Put your code on GitHub (or Gitlab, Bitbucket etc.) in a private repository and send us the link to your repository after adding permission for [santanu@tribes.ai](mailto:santanu@tribes.ai) where we can find the source code.

Please make sure to include a readme file which all gentleman developers do :)

## WHAT ARE OUR EXPECTATIONS FROM OUR FUTURE SUPERSTAR IN FRONT END TEAM?

We expect the design to be fully responsive. You're free to think about which breakpoints you want to support (think about the why as well).

Depending on your level of experience we of course expect different solutions (good to document them in the readme file). Make choices based on what you think you can do within the given time. You can use frameworks like React or Vue. Ideally you will have prepared every component in its most practical form.

If you're more of a JavaScript guru? You like communicating with APIs and reducing them to sophisticated data models? Wow us with your technical skills by using the latest tools available.

Think about adding functionalities like:

### Cases

- filtering/grouping:
- Filtering by Country
- Grouping by Job title
- Storing filters dynamically in the URL
- Show employee details on a popup in the same page also with creative way.
- Edit and save on the same popup
- Remove the row from the table as well as from the dataset when delete button get clicked