



Submission requirements:

- The work should be done by the candidate himself, if we find similar works submitted by several candidates - all such candidates will be rejected. Don't share your work with other candidates!
- The task submission should be accompanied by readme.md files
- AI usage - if we see that the candidate's work is generated by an AI model and the candidate is unable to understand, run or modify the code - such candidates will be rejected. Please, don't submit code that you did not write and do not understand - we'll be checking this in an interview anyway.

Task: Single page application with Data Table and Bar Chart Visualization

Description:

Create a web application using ReactJS or NextJs that includes a data table and a bar chart visualization.

The application should allow users to interact with the data table and dynamically update the bar chart based on the selected rows.

Requirements:

1. Implement a data table with several columns of your choice (e.g., "id", "name", "some numeric value"). Use at least 2 string values columns and at least 2 numeric values columns
2. Each table row has a checkbox as a first cell.
3. Initially, only 5 first row checkboxes in the data table should be checked.
4. Use Plotly.js library to create a bar chart visualization.
5. Display the values of one of your numeric columns of the checked data table rows as bars in the chart.
6. When a checkbox in the data table is unchecked, remove the corresponding data from the chart.
7. The chart should update in real-time as checkboxes are checked or unchecked.
8. Use some kind of backend service (dummyjson.com or a similar online tool of your choice) to fetch the data from. Implement lazy loading of data (only fetch the data being displayed in the table, do not fetch all the data at once, make sure you do not use extra api calls).



9. You should be able to fetch at least 100 rows of data. Implement pagination, and a search bar allowing to filter the data in the table.
10. Come up with the layout and visual design which is best suited to this kind of application and contributes to overall UX.
11. Push your code to the public github repository. Make sure the readme file has details of how to build and run your application.

Usability and visual aspect of the application is a major criteria in the assessment of the result. Feel free to add any feature which will improve usability of the application.

Kindly fill the below Google Form once you have completed the Task.

https://docs.google.com/forms/d/1GHv2C_TlYsfL7l3_DSQvJobTgfRiC6KBIsEzEg1YOhw