Frontend Assessment

Do not use third party libraries or built in function like sort, group, min, max, avg even if available. You can use javascript or typescript. Dataset for the “Questions” is after the questions section.
Please reach team in case of any queries.

Javascript Questions

We will evaluate your programming skills.

1. Write a function to sort,
    a. sort data set 1 by ascending order
    b. sort data set 2 by age in ascending order
    c. sort data set 2 by name in ascending order
2. Write a function to filter list of objects
    a. Filter dataset 2 with age less than 38
3. Transform an array
    a. Add a new field called “date of birth” to each object in dataset 2 and calculate approximate date of birth from their age.
4. Write a function to group list of objects
    a. Group dataset 2 by occupation
5. Write a function to calculate min, max & average
    a. DataSet 1
    b. DataSet 2 min, max & average of age field
6. Write a function to calculate total records under each occupation for dataset 2

React Questions:

We will evaluate your HTML, CSS, JavaScript & React skills

1. Create a UI with following features
    A page with all the post and comments
    a. An option to create new post
    b. An option to create new comment.
    c. Add a search functionality to search post and comments using redux / react-query.
    d. Create & Reuse individual components wherever required.

    Use of boiler plate like create react app is accepted but assembling one using webpack / rollup / babel or anything similar is added bonus.

Use of storybook is added bonus.

API
https://jsonplaceholder.typicode.com/posts
https://jsonplaceholder.typicode.com/comments

DataSet

1. [13, 1, 5, 8, 6]
2. [
    {
        Name: “Bonnie Jennings”
        age: 50,
        occupation: “Driver”
    },
    {
        Name: “Aysha Mathis”
        age: 27,
        occupation: “Teacher”
    },
    {
        Name: “Tianna Dorsey”
        age: 35,
        occupation: “Player”
    },
    {
        Name: “Fleur Chandler”
        age: 49,
        occupation: “Teacher”
    },
    {
        Name: “Imogen Robinson”
        age: 60,
        occupation: “Driver”
    },
    {
        Name: “Sienna Zuniga”
        age: 17,
        occupation: “Athlete”

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        },
        {
                Name: “Kimberley Petty”
                age:  50,
                occupation: “Driver”
        },
        {
                Name: “Elizabeth Donaldson”
                age:  22,
                occupation: “Athlete”
        },
        {
                Name: “Priya Haines”
                age:  50,
                occupation: “Athlete”
        },
        {
                Name: “Claudia Glenn”
                age:  50,
                occupation: “Architect”
        },
]
```

Instructions to submit the answers.

1. Upload the code to google drive / dropbox and share it.
2. Do not share node modules.
3. Make sure package.json is there in the code you share. So we can run the application and test it.