

Client – Interview Process

Round 1 - Frontend and Design System Interview

Frontend Interview

- Knowledge of React API fetching and displaying data - Focus on handling API calls and maintaining different API states such as failed, loading, or no data.
- Knowledge of TypeScript
- Understanding of React-Query is a plus point.
- The client uses a lot of charts and graphs; thus, knowledge of such libraries is a must-have
- Besides frontend technical ability, knowledge of UI/UX is an add-on

Ex link: <https://codesandbox.io/s/priceless-night-6ksyhe?file=/src/Concerns/concernApi.ts:2418-2443>

Design System Interview

- This interview will require some backend and DB-level knowledge
- The interviewer will ask you to create a feature and provide the DB level schema and explain – For Eg DB schema for a chatting application
- Detailing and covering all the edge cases is key
- The expectation is not only to think as a developer but also as a product owner.
- This round might require you to put the details in a blank document without coding.

Round 2 – Algorithm Interview

Algorithm Interview

- An algorithm problem is given, and the engineer is expected to solve it in the given time.
- Understand and implement brute force solution
- Explaining the approach before coding is expected
- Detailing and covering all the edge cases is key
- Knowledge of time and space complexity is required
- Understanding of bit shifting
- Will require coding

General Requirements

- It would be helpful if answers do not sound rehearsed; e.g. propose a brute force solution, discuss pros/cons/complexity analysis etc., and propose a better solution.
- Candidates to turn on the camera.
- Candidates to show enthusiasm.

Sample questions

Algorithm Round

1. Division Problem without using math operators with time complexity and refactoring.
2. Factorial problem without using math operators (because I finished first in less time)
3. reverse a given string. (Same for this one because the second one also finished before time)

System design

Design a messaging application for patients to communicate with their physicians.

Physicians can have many patients

When a physician logs in, they see a list of conversations sorted by the most recent message

For each patient, they see a blurb of the most recent message, the time it was sent, who sent it etc.

When the physician clicks the message, they see the conversation history, sorted by most recent

Questions regarding the Above problem statements

You will be asked to design a feature from the above statement that includes real-time functionality and the infrastructure necessary to support it. Think "enterprise systems" and "deployment" and "availability" and "scalability" and "infrastructure" (e.g. SQL, NoSQL, concepts like replication, indexing, sharding, redundancy, load-balancing, etc.)

React Coding

IT WILL BE IN REACT-TYPESCRIPT

1. will be given mock data & have to use it as a API response
 - Mocked API has delay and may error
2. remove the row on button click
3. update styling on given condition

with react-query/redux questions like how you will complete it using react query/redux which is the better approach according to you.

if you consider anything that will be your approach.

mostly they use react-query over redux.