

10 CHALLENGES IN FRONTEND



Amazon
Flipkart
Microsoft
Tata 1MG
Unacademy



Swipe →

Problem Statement :

Create a Promise polyfill.

Disclaimer :

Polyfills are favourite of Interviewers.

Please try to implement - Map, Reduce, Bind,
Promise.all polyfills before directly attempting to
Promise polyfill.

Kind Request :

Please save your code in 1 repo for future reference.

JavaScript Round, Microsoft 2020

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Swipe →

Problem Statement :

Create a component similar to "Whatsapp Last Seen" in JS / HTML / CSS or in React.

Input :

- Last time when whatsapp was open
- ex. 2020-01-01 10:11:55

Output :

- last seen just now
- last seen a minute ago
- last seen an hour ago at 4:00 AM
- last seen today at 3:26 PM
- last seen n month ago
- last seen an year ago

Source : (GeeksForGeeks)

Asked By : Amazon (Frontend Enginer - 2)



Swipe →

Problem Statement :

Create a polyfill for `JSON.stringify`

Test Case :

MDN examples

Disclaimer :

1. Please read what does `JSON.stringify` on MDN
2. Try to cover all the datatypes

Asked in Flipkart (UI Tech Round) - 2022

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Swipe →

Problem Statement :

Create a new "FileNotFoundException" error type.

Test Case :

```
// Sample Code to test
try {
    // Assuming some logic exists
    throw new FileNotFoundException("Please re-upload the file")

} catch (err) {
    if (err instanceof FileNotFoundException) {
        alert(err.message); //
    }
}
```

Disclaimer :

Please go through MDN docs for the types of errors

Difficulty: Easy

Time: 5 Minutes

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Asked in TATA 1MG (UI Round -1)



Swipe →

Problem Statement :

Create a **Slider** in only HTML, CSS & JavaScript.

Disclaimer :

1. Slider can include **Image** / Simple Text / PDF file.
2. Slider should show **active slide** using **dot**.
3. Slider **auto animation** should stop while hovering.

Time: 30 Minutes

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Swipe →

Problem Statement :

Let's us discuss different ways to optimize a web page.

Disclaimer :

There can be n number of ways to optimize.

But Interviewer was looking for incremental approach.

Ex.Regarding Images

1. Let's use svg/webp instead of jpg/png.
2. Now Add Lazy Loading (How to actually Lazy Load image).

Asked in Flipkart (UI Tech Round)
March 2022



Swipe →

Problem Statement :

What are the things you keep in mind, when raising a Pull Request and Reviewing a PR?

Followup Question:

Difference between merge vs rebase, which is better?

Hiring Manager Round, 2022

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Swipe →

Problem Statement :

Create a **whiteboard** to teach students with options of **drawing** and **erasing**.

Disclaimer :

Please read **Canvas** on MDN before attempting.

Time: 1 Hour

Machine Manager Round, **Unacademy**

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Swipe →

Problem Statement :

Design a Youtube Search.

Disclaimer :

It is **vast topic** of discussion.

Ask questions from Interviewer.

Make sue you cover & write it down

- Functional / Non-Functional aspects
- Component Design
- API Structure
- Payload and Response Structure Needed
- Improvements we can do

Time: 1 Hour

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Frontend Design Round, **Flipkart** 2022



Swipe →

Problem Statement :

Write a function to sort a list of patients based on Critical condition.

```
patientsArray :  
[  
  {name: 'Vivek', priority: 'low'},  
  {name: 'Om', priority: 'high'}  
]  
priorityArray: ['low', 'medium', 'high']
```

Input

```
[  
  {name: 'Om', priority: 'high'},  
  {name: 'Vivek', priority: 'low'}  
]
```

Output

Disclaimer :

1. Show pinned contacts/groups in Whatsapp list,
Recently pinned should be at top.
2. Show contacts of family first, then favourites, then
friends ...

UI Tech Round, TATA 1MG 2022



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