

Canvas Interview for JS Developer - Level 1

Scenario 1:

I am a content creator and I host my content (videos, audios) in a third party application. I showcase all the content on my website. I need the scripts to add to my website that can fetch and play the content from my host. I am told that the scripts will also show the ads & other promotional content in-between for which I will get paid.

Question

Design a third-party JavaScript snippet to fetch a video or audio file and load it into a player within the current window. The snippet should also include metadata such as title, description, and a time object specifying when to display promotional content related to the file. The main application script, which includes your third-party snippet, should manage this information and control the playback of the content. Additionally, based on the time object, implement a promotion popup that appears at specific intervals during playback. Explain how the parent script would handle all this functionality.

Pointers

1. The main application can be in any JS framework
2. You can use JS or TS to write the third-party scripts depending on your knowledge & comfort
3. Use Tracking scripts from Google Analytics, FB, and integrations like Google Maps for inspiration.

4. Your ability to write an optimized, light-weight, modular code will be evaluated.
5. Additional thought-process and functionalities will be considered for evaluation.

Scenario 2:

Build an online rental library with the following functionalities

Features

1. Authentication module
2. View list of books
3. View details of a book
4. Rental Checkout - Registered users can checkout by paying a rental sum (mock payment flow is enough) for a pre-defined time. Rental time can be extended by users paying a fee from the list of books they have rented.
5. Rented books can be returned on or before the rental time - post which the users shouldn't be able to access its content.

Pointers

1. You are expected to build both front-end and back-end of the application with restful APIs.
2. You can use any stack that you are comfortable with.
3. Your ability to write an optimized, light-weight, modular code will be evaluated.

4. Additional thought-process and functionalities will be considered for evaluation.