Web Developer Technical Interview Questions

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1. Given the following sample screen, design a possible HTML and CSS document for it.

https://s3-eu-west-1.amazonaws.com/gripinterviewquestions/login_screen_sample.png

2. How would you sanitize user input before further processing?

Provide your answer as a javascript function.

For questions 3 - 6, use the following database table schema

Suppose we have a database that tracks users' video playback actions over time

user_id	device	action	date_actioned // simplified UNIX timestamp
1	"Windows 10"	"start"	100
2	"OSX 15.4"	"start"	200
1	"iPhone 8s"	"start"	250
1	"Windows 10"	"stop"	370
1	"iPhone 8s"	"stop"	410
2	"OSX 15.4"	"stop"	490
3	"Android 9.1"	"start"	700
...	...	...	...

3. Write a javascript function that takes in `records` (an array of all the database records), an `action`, and a `start_time` and `end_time` time window and returns all user ids that performed that `action` within that time window.

E.g. `getUsers(records, "start", 700, 900)` will return the result `[3]`

4. Write a javascript function that takes in a `user_id` and an array of all the database records, and reports a user's total "unique" playback time in seconds.

E.g. `getPlaybackTime(1, records)` will return `310 // based on the above example`

5. Write inline comments for your functions where appropriate.

6. Identify any possible shortcomings or limitations of both your functions if any.