Angular Interview Questions for Senior/Staff/Architect developer position [Part 2–2023]

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11–14 minutes

Let's continue for Part2. If you have missed Part1 of this story, then do check it out here.

1. How do you make sure your Angular application is secure?

[Interviewer(s)]: In this question, I would like to see how deep the candidate wants to go in security topic. I would keep an eye on topics like, OWASP guidelines for general web security, different protocols, known vulnerabilities, CORS, Cross Site Scripting, Encryption, Web Application Firewall (WAF) etc.

[Interviewee]: While answering this question, I would mention that I would follow the standard web application security practices, mentioning the terms, without going into details.

I would just have a glance on various types of web attacks, and will read through the top ten OWASP security concerns.

I would ask the interviewer, if any of those topics needs to be

explained. Otherwise, I would focus on Angular security related topics.

I also find the MDN security documentation helpful in this case.

2. Can you please tell me the most complex problem you have faced, and how you have solved it in your past/current project(s)?

[Interviewer(s)]: Here, the candidate can present the complexity level handled so far, and brings many different topics which can be discussed in further. If few of them are related with the current project for which the job is being posted, I would try to present the similar problem in layman terms, and would ask how the candidate would solve it.

[Interviewee]: I would try to pick up the most complex project I have personally worked on, and contributed a lot. The problem statement, situation, action, and resolution should be crisp. I wouldn't go in too many details of problem, or solution, and let it be asked by interviewer if interested.

Topics I would cover in my example, would be how I improved the application performance, or refactoring of a legacy project, breaking down a giant application into different applications, use of mono repository, state management, custom libraries etc. The complexity should be mentioned in respective topic. For example, if there was performance lag, how long it used to take before and after the solution.

3. Can you please explain HTTP vs HTTPS, and can you explain how gRPC, HTTP/2, HTTP/3 works?

[Interviewer(s)]: This is another open-ended question, I like the most. I would be interested to see if candidate knows the intrinsic behavior of HTTP and HTTPS protocols, their differences, how handshake works, how tokens are generated, and exchanged, different type of data transfers, security concerns, how certificates are generated and renewed, how webRTC passes data etc. The HTTP/3, gRPC topics would show if candidate is keen to be up-to-date with new development in web technologies.

[Interviewee]: I would be very careful while answering this question without proper read-up. There are very good documentations out there explaining HTTP vs HTTPS. The web certificate is a broad topic, but I would try to be precise in explaining its role.

I would try to prepare a couple of examples from past projects related to this question. If I have done any PoC or projects with gRPC, HTTP/2, HTTP/3, I would mention it with example.

gRPC: If you have not read/worked with gRPC, I would encourage giving it a try building a simple Node.js application and try to consume it via Angular application. I know people use it mostly with Microservice communication purpose as its super fast than REST API communication. However, when you consume an API with gRPC, you will need to enable "HTTP/2" headers in your web server configuration.

HTTP/3: Another interesting topic to get used is HTTP/3. Though there are very limited support, and application out there, it has lots of potential to change the web ecosystem.