iOS Interview questions and answers Part21

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230.Are you involved in any open source projects? What is your role there?

that would be a big plus, even if you are just a contributor. If you are trying to get your first job it's a good way to prove your skills. Even better if you are a maintainer of the popular repository.

231.How big were the teams? Have you been a leader in any of those projects?

just to know if you used to work alone, in big teams, remotely or only with local people, etc.

232.What are the sources of your knowledge? Do you read any blogs or listen to any podcasts? Name a few.

if you do then that might mean programming is not just your job but also a hobby and it's usually better to hire you instead of someone who doesn't do that

233.Have you worked with Scrum/Agile? What do you think about that? When in your opinion it can be good and when rather harmful?

just a quick question to see if you understand that scrum has its place and doesn't have to be used ALWAYS

234.What is your opinion on Code Review?

another quick question to check if you are either in a group of people who think it's important or in the other one :)

235.Do you go to conferences and local meetups sometimes? Do you have any favorite one?

nothing serious in my opinion, it doesn't mean that you are a bad developer because you do not go there, you might be just an introvert. But it's sometimes good to see if you are a person that might promote the company on conferences or even do a speech.

236.Consider two input arrays,

let listOne = [3,nil,5,7]

let listTwo = [4,6,2,8,nil]

By using high order functions, write code snippet to get a sum of all integers from both Arrays?

Ans: 35

Higher order functions are simply functions that can either accept functions or closures as arguments or return a function/closure.

Higher Order Functions are very useful and powerful and help us to write more elegantly and maintainable code. Those functions are Map, Filter, Reduce, Sort, CompactMap etc.

let result = [listOne.compactMap({ $0}),listTwo.compactMap({ $0})].flatMap({ $0}).reduce(0) { $0 + $1 }

First compact map removes nil element from the array. Then by using a flat map, we combine these two arrays.

And finally, reduce function will help to get the sum of array elements.

237.Bob developed an iOS application, uploaded on store successfully. Since he is working for client XYZ, he chooses bundle-id com.xyz.appName for this music application. But the later name of the organization changed now the client wants to update bundle-id too.What are the possible ways to handle this?

As iOS developers we know, Bundle ID is a string that uniquely identifies an application in the app store. So while developing the app we have to choose unique bundle-id for our app. Apple recommends reverse domain name for this, like com.yourCompany.yourApp

For the above scenario. As apple guidelines say, once your application successfully uploaded to store, you can't change the bundle ID later. So always make sure that you choose a bundle identifier that makes sense for the project and the owner.

238.For your photo-gallery iPad application, What would be your preference as senior developer, Alamofire or URLSession?

With URLSession APIs availability, Now it becomes easier to build up network requests. The developer can build own networking layer on top of URLSession.

Alamofire is popular Elegant HTTP Networking library in Swift. Alamofire saves you a ton of time and simplifies the use. It is a well-tested library. Maintained by very clever people. Cost of including it — very small.

For small projects and projects with less time-line Alamofire is a good choice.

But for long term product, we can build in the house layer with NSURLSession. To avoid third-party dependency and upgrade overhead.

239.Almost all companies are taking the subject of data security and privacy severely. So how to protect user's sensitive data in iOS applications.?

Apple provides great security mechanisms like Keychain, data encryption, or App Transport Security(which forces developers to use SSL pinning).

Keychain is the password management system developed by Apple. Logins, keys, and passwords should be stored in Keychain.

For network request, SSL pinning is used to ensure that an application communicates with the right server. For this, we need to save the SSL certificate within the app bundle.

Others security mechanisms are like using encryption methods like AES-256 encryption while saving sensitive data to persistent storage or passing data over the internet.

240.What will be output for below code snippet? Also, analyze the memory performance for this code?

```
class Student {

let name: String

init(name: String) {

self.name = name

}

var scoreCard: ScoreCard?{

didSet{

print("\(name) got \(scoreCard!.marks) marks in this exam")

}

}

}

class Scorecard {

let marks: Float

init(marks: Float) {

self.marks = marks

}

var student: Student?{

didSet{

print("\(marks) for \(student!.name) in this exam")

}

}

}

var student: Student?

var score:Scorecard?

student = Student (name: "Albert Einstein")

score = Scorecard (marks: 80)

student!.scoreCard = score

score!.student = student

student = nil

score = nil
```

Albert Einstein got 80.0 marks in this exam 80.0 for Albert Einstein in this exam. Here we have defines two classes, Student and ScoreCard. Each student owns one scoreCard also Each scoreCard belongs to the specific student.

Finally, we have created a student with the name "Albert Einstein" and ScoreCard with 80 marks. We assigned scorecard to student and student to scorecard. Now both objects are strongly referencing to each other. So they will never be removed from memory. This code will cause a memory leak.

To fix this, we have to use weak reference for scoreCard property of student class.

```
class Student {

let name: String

init(name: String) {

self.name = name

}

weak var scoreCard: ScoreCard?{

didSet{

print("\(name) got \(scoreCard!.marks) marks in this exam")

}

}

}
```

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I have around 14 years of experience in iOS development and lead/senior developer