

# Wells Fargo - May, 2024

## SwiftUI

1. How would you rate your skills on a scale of 1 to 5 in the following areas: SwiftUI, Combine, Concurrency, Testing, and App Architecture?
2. What is the difference between declarative and imperative programming?
3. What is the difference between `@ObservedObject` and `@StateObject` in SwiftUI?
4. How do you create a custom view modifier in SwiftUI?
5. In SwiftUI, how can you transfer a value set at the top level of a view to a parent view?
6. How does `@Environment` work in SwiftUI?
7. What are some predefined environment values in SwiftUI?
8. How can we use size classes in SwiftUI?
9. How can we create custom `VStack` and `HStack` in SwiftUI?

## Concurrency and Asynchronous Programming

10. What is sync and async?
11. Can you dispatch `NSOperation` in a GCD queue? If yes, how?

## App Design and Networking

12. Suppose I have a login page. After logging in, we go to a page that has a small thumbnail of a picture that has not yet been downloaded. If the user clicks on that image view, we will navigate to the picture detail view. How will it show the picture once downloaded?

## Security in Banking Apps

13. What are some security rules in banking apps?
14. What security measures should be applied to the on-air transfer of banking data?

15. How can you send data securely to the backend in a banking app?
16. What is SSL pinning?
17. What is App Transport Security (ATS)?
18. How can you allow non-HTTPS URLs in an iOS app?

## **Version Control**

19. What is the difference between merge and rebase in version control?
20. If you have a master branch and a development branch, how many commits are created when rebasing the development branch from the master branch compared to merging?
21. How do you resolve conflicts during version control operations?
22. What is the HEAD tag in a version control conflict?

## **Object-Oriented Programming and Swift Basics**

23. When should you use a class versus a struct in Swift?
24. What is dynamic binding in programming?