

100 Problem-Solving Questions for App Development

1. What are the key differences between native, hybrid, and web apps?
2. What are the advantages and disadvantages of cross-platform development?
3. How do you choose between Flutter, React Native, and native development?
4. What are the best practices for structuring a scalable mobile app project?
5. How do you handle state management in mobile applications?
6. What are some best practices for designing a mobile-friendly UI?
7. How can you improve app accessibility for users with disabilities?
8. How do you implement smooth animations without affecting performance?
9. What are the common mistakes in mobile app UI design?
10. How do you ensure consistency in UI across different screen sizes?
11. How do you optimize images for better app performance?
12. What are lazy loading and its benefits in app development?
13. How do you reduce app startup time?
14. What strategies can you use to improve scrolling performance?
15. How do you analyze and reduce app memory usage?
16. What are the best debugging tools for mobile app development?
17. How do you debug network issues in mobile applications?
18. What is unit testing, and why is it important?
19. How do you implement end-to-end testing for mobile apps?
20. What are common causes of app crashes, and how do you handle them?
21. How do you design a RESTful API for mobile apps?
22. What is GraphQL, and how does it compare to REST APIs?
23. How do you secure API communication in a mobile app?
24. What are the common strategies for caching API responses?
25. How do you handle API rate limits in your app?
26. What are the best authentication methods for mobile apps?
27. How do you implement biometric authentication (Face ID, Fingerprint)?
28. How do you securely store user credentials in mobile apps?

29. What are the common mobile app security vulnerabilities?

30. How do you prevent SQL injection attacks in mobile applications?