

Interview Preparation For Backend Mobile Candidates

Welcome to the Grab Interview Guide



Dear Candidate,

Firstly, we would like to express our sincere gratitude for your interest in Grab. We are excited about the potential to have you join our team of talented and dedicated engineers.

This document is designed to provide you with a comprehensive understanding of our interview process. It will guide you on what to expect, how to prepare, and provide tips to help you perform your best during the interview rounds at Grab.

Our goal is to ensure that you feel confident and well-prepared for your upcoming interviews. We believe in a transparent and fair recruitment process where every candidate has an equal opportunity to showcase their skills and potential.

Interview Rounds @ Grab

All interviews at Grab are conducted in English, as it is our company's working language and ensures effective communication across our diverse, multinational team.



Coding, Data Structures, Algorithms

In this round, we aim to assess your fundamental understanding of Programming, Data Structures, Algorithms, and your aptitude for problem-solving. We also evaluate your ability to comprehend problems, communicate your thought processes, implement solutions in code, and optimize them.

What you can expect

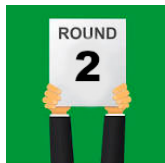
1. Solve coding problems that will assess your knowledge of data structures and algorithms.
2. Discuss your approach to problem solving and demonstrate your professional understanding of the principles of software engineering.
3. Display your knowledge of platform/language specific basics and fundamentals.

Tips for Preparation

1. **Practice Coding:** Regularly practice coding problems to strengthen your understanding of data structures and algorithms. Websites like [Leet Code](#), [HackerRank](#), and [CodeSignal](#) offer numerous problems for you to solve.
2. **Understand Problem Solving:** Take some time to communicate, think, and break down complex problems into smaller, manageable parts. This will help you develop a structured approach to problem-solving.
3. **Brush Up Language Fundamentals:** Ensure you have a strong understanding of your preferred programming language's fundamentals. This includes knowing how inbuilt data structures work, language conventions, and idioms.
4. **Improve Communication Skills:** Practice explaining your thought process clearly. This can be done by talking aloud while solving problems or discussing solutions with peers.
5. **Learn about Programming fundamentals:** Familiarize yourself with the fundamental concepts of the programming language and its design patterns.

Pro Tip

While practicing problems, focus on understanding the concepts and logic, rather than memorizing the solutions.



System Design and Architecture

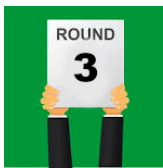
In this round, we aim to assess your understanding of system design and your ability to design and implement robust, scalable systems. We also evaluate your understanding of system design best practices like testing, monitoring and more.

What you can expect

1. Your ability to design and model complex systems. **Lead the session** as if you are building a feature/product in your company and the one explaining the solution at the whiteboard.
2. Your understanding of concepts related to system design like data modeling and data storage, scalability, security, testing, monitoring, etc.
3. Your ability to communicate and justify your design decisions.
4. A short discussion about your experience in system design and the projects you have built before.

Tips for Preparation

1. **Understand System Design Principles:** Familiarize yourself with concepts like scalability, performance, extensibility, reliability, and maintainability. Understand how to design robust, scalable systems that can handle high loads and are easy to maintain. [Educative.io](#), [system-design-primer](#), [Video on System Design Interview](#) can be good resources for understanding various system design concepts.
2. **Practice:** Regularly practice end-to-end system designs, practice a few questions and get familiar with the tools. For eg: Google Drawings, [Draw.io](#)
3. **Demonstrate your analytical skills:** Ask questions, clarify requirements, show the interviewer you are able to transform an ambiguous problem in a well define set of requirements
4. **Learn about Infrastructure:**
 - a. **For a mobile role:** Familiarize yourself with the infrastructure of mobile systems. This includes understanding the deployment /release pipelines specific to Android or iOS, mobile operating systems, networking for mobile, and integration with cloud services, analytics, or crash toolings.
 - b. **For a backend role:** Ensure you have a strong understanding of the infrastructure where the system is running. This includes understanding deployment/release pipelines, operating systems, networking, and cloud services (AWS, Azure, etc).
5. **Improve Communication Skills:** Practice explaining your thought process and designs clearly. Just like in Round 1.
6. **Be familiar with monitoring best practices**



Culture fit and Work Experience

In this round, we aim to assess your cultural fit with our organization, your ability to learn, and your experience in delivery, planning, and managing tasks or projects. We also evaluate your capability to estimate, prioritize, handle bugs and issues, work within a team, and communicate effectively.

What you can expect

1. A discussion focused on your experience, your achievements and learnings, your career goals and ambitions, your strengths and growth areas
2. Questions regarding your capacity to work in a team, your ability to step up, and your engagement in process improvements outside of code execution
3. An opportunity to ask about the team, the project, the role, the ways of working of your future team with the hiring engineer manager

Tips for Preparation

1. **Understand Grab's Culture:** Familiarize yourself with [Grab's principles and culture](#). Reflect on how these align with your own values and working style.
2. **Reflect on Your Experiences:** Think about past experiences where you've had to plan projects, manage dependencies, respond to incidents, and work within a team. Be ready to share these experiences and what you learned from them.
3. **Prepare Your Own Questions:** Think about what you want to know about working at Grab. This could be about our engineering culture, day-to-day work, onboarding process, or anything else you're curious about.