th: Deep Dive into System Design Interview

System Design Essentials

Module Overview

Distributed systems are the standard for deploying applications and services. Mobile and cloud computing, combined with expanded internet access, make system design a core skill for the modern developer. This module provides a brief overview of the concepts required to design scalable systems.

Module Objectives

Get a brief overview of modern system design.

Learn about the role of abstraction in system design.

Learn about the non-functional requirements of system design.

Review the core concepts of modern system design.

Start Learning

13 Lessons

38 Illustrations

Module 2

Contents (Module 3)

Module 4

1. Introduction

- Introduction to Modern System Design

2. Abstractions

- Why Are Abstractions Important?
- Network Abstractions: Remote Procedure Calls
- Spectrum of Consistency Models
- The Spectrum of Failure Models

3. Non-functional System Characteristics

- Availability
- Reliability
- Scalability
- Maintainability
- Fault Tolerance

4. Back-of-the-envelope Calculations

- Put Back-of-the-envelope Numbers in Perspective
- Examples of Resource Estimation

5. Conclusion

- Final Remarks

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