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# Grokking Modern System Design Interview for Engineers & Managers

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## System Design Interviews

### Introduction

### Abstractions

### Non-functional System Characteristics

### Back-of-the-envelope Calculations

### Building Blocks

### Domain Name System

### Load Balancers

### Databases

**Key-value Store**

**Content Delivery Network (CDN)**

**Sequencer**

**Distributed Monitoring**

**Monitor Server-side Errors**

**Monitor Client-side Errors**

**Distributed Cache**

**Distributed Messaging Queue**

**Pub-sub**

**Rate Limiter**

**Blob Store**

**Distributed Search**

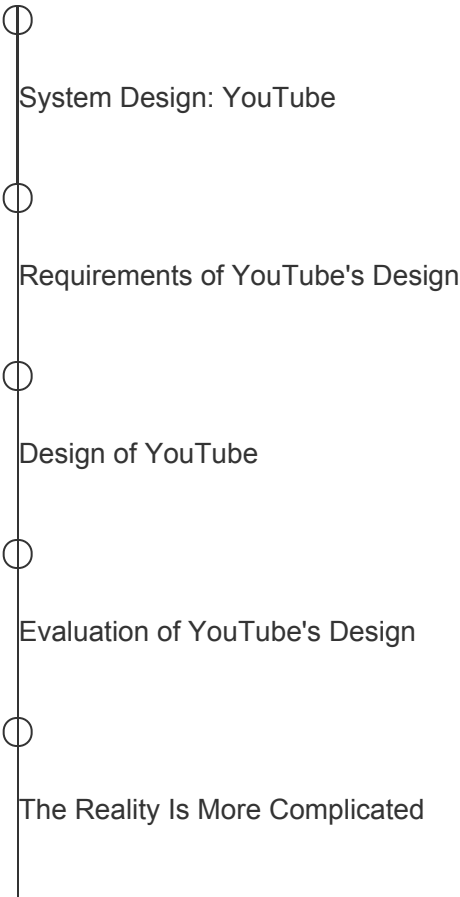
**Distributed Logging**

# Distributed Task Scheduler

# Sharded Counters

# Concluding the Building Blocks Discussion

# Design YouTube



Quiz on YouTube's Design

# Design Quora

## **Design Google Maps**

## **Design a Proximity Service / Yelp**

## **Design Uber**

## **Design Twitter**

## **Design Newsfeed System**

## **Design Instagram**

## **Design a URL Shortening Service / TinyURL**

## **Design a Web Crawler**

## **Design WhatsApp**

## **Design Typeahead Suggestion**

## **Design a Collaborative Document Editing Service / Google Docs**

## **Spectacular Failures**

## **Concluding Remarks**

## Course Certificate

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# Quiz on YouTube's Design

Test your understanding of the concepts related to the design of the YouTube via a quiz.

1

Which pair of requirements among the following cannot be compromised if we’re asked to design Netflix?

**Reset Quiz**

Question 1 of 6

0 attempted

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The Reality Is More Complicated

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System Design: Quora

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