System Design

Description:

A comprehensive course on System Design covering different case studies. This course provides both theoretical and step by step approaches to solving a particular case study.

Start Date:

Doubt Clear Time:

Course Time:

Features:

Self-Paced Classes

Real-time Project

Assignment in all modules

Quiz in every module

Completion Certificate

What we learn:

System Design Concepts

What are Proxies ?

Caching

Rest API

Scaling

Database Replication

Requirements:

Prior knowledge in data structures

Instructor:

Name:

Vaibhav Kumar

Description:

Keen Problem solver and a Competitive coder, Ex-Gainsight

>Theory:

>>Introduction to System Design

>>Components of System Design

>>Client Server Architecture

>>What are Proxies ?

>>Introduction to Data and Data Flow

>>Database and Types of Database

>>Anatomy of Applications and Services

>>API - (Application Programming Interface)

\>\>Caching

\>\>Rest API

\>\>Message Queue

\>\>Publisher Subscriber Model

\>\>Performance Metrics

\>\>Performance Metrics of components

\>\>Fault and Failure

\>\>Scaling

\>\>Database Replication

\>\>CAP theorem

\>\>Database Sharding

\>\>Key, Range and Directory based sharding

\>\>Hashing

\>\>Consistent Hashing

\>\>Foundation of System Design Interview

\>Case Study:

\>\>System Design Tiny Url

\>\>System Design Api Rate Limiter

\>\>System Design a text sharing service like Pastebin

\>\>System Design Chat Messager

\>\>System Design Twitter

\>\>System Design Distributed Web Crawler

\>\>System Design a Movie Ticket Booking System

>>System Design Uber