

PRO-TIP: FOCUS ON DEVELOPING AN UNDERSTANDING!

Interview Prep | Low Level Design Roadmap



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4 min read · Sep 20, 2022



351



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If you are someone with more than a year of experience, you are expected to have some level of understanding of low level designs.

Your response to a LLD question is expected to have parity with the number of years of experience you have.



What is a Low-Level Design interview?

Book definition - During a low level design round you are assessed upon readable, maintainable, and extensible. You are expected to use OOPs and design patterns on real world problems (Ex: Design Instagram, parking garage)

Points to note

1. Showcase OOPs skills
2. Can you analyze a product in a short time, and **what is required?**
Ex: For a movie theater system, you need to realize that the location of the theater should be factored into your design. In order to show the users which theater is nearest to them.

4. Be ready to *explain every decision* you make.

1. Preparation Path/Roadmap



We will talk about the preparation path you need to take up. Each of the subsequence sections shall contain links and resources for the same.

Timeline to complete this is 1 hour everyday for 1 month.

1. If you are a person who understands objects. Watch the video mentioned below. If you are able to understand even 30% of the video, you are in a

pretty good position.

- Book My Show LLD.

2. In the next step, Read up on **Design Patterns** and **SOLID principles**.

[Point 2]

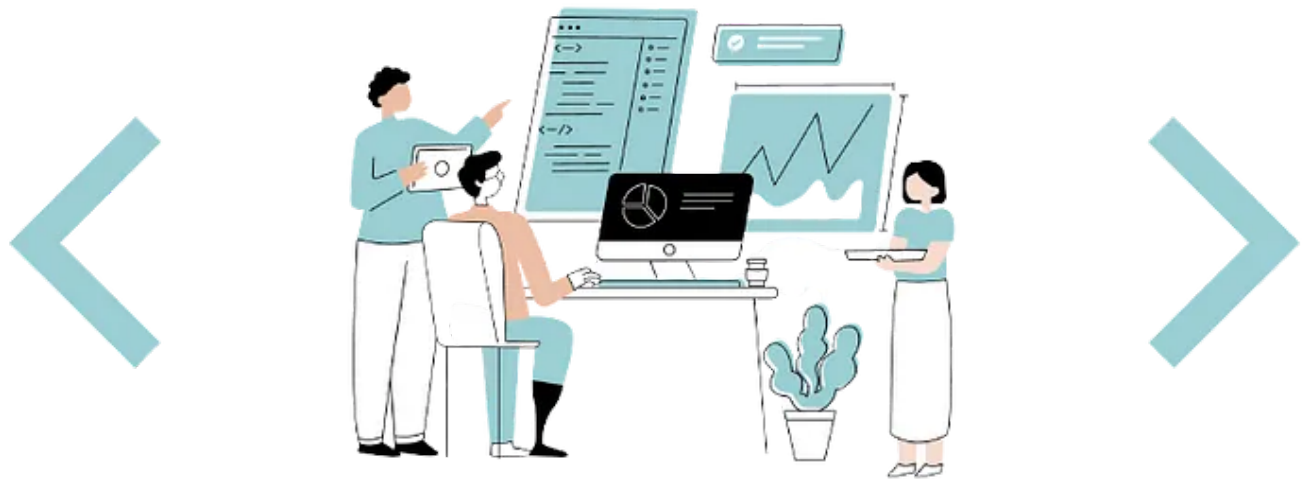
3. Start going through **actual examples**. [Point 3]

Point 4 - Contains video resources as well.

Take care that you go through 5–6 complete examples and then start trying to first write down your solution and then go through the solution/explanation.

4. Next is **assessment time!!** [Point 5]

2. Concepts to know



Design patterns

You might get asked about certain design patterns and could be expected to talk about pros, cons, and usage.

These resources offer proper reasoning for when and why to choose patterns, if you **understand** the concepts well, it will help you out in the long run as well.

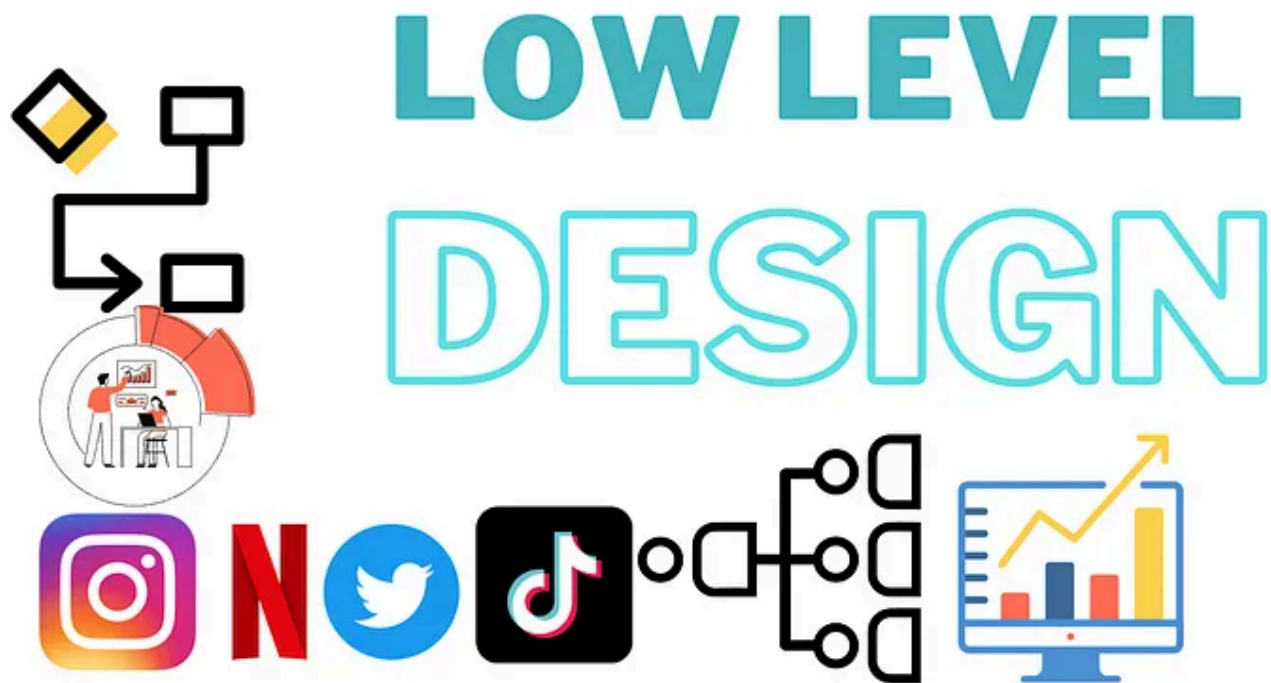
- [Refactoring Guru](#)
 - Learn design patterns in a *language of your choice*
- [Source making -Antipattern](#)
 - Interested in knowing *Antipatterns*.
- [Tutorialspoint](#)
 - Want to learn with questions

Solid Principles

You can always put forward your reasoning by quoting the SOLID principles.

- [Digital Ocean](#)

3. Learn how to apply



Low level design roadmap

You can check out the examples here. All the questions are asked frequently. I came across them from the [low level design primer](#).

Going through these links and *understanding* them alone should get you interview-ready.

1. [Resource questions](#)
2. [Solutions to standard problems](#)

4. Interested in learning through video links?

Video resource -Gaurav sen

I personally am not a big fan of *completely* preparing using videos, because most people just listen and start feeling like they know everything annnnndddd.... *end up freezing during interviews.*

If you are using videos as a resource, scribble on a notepad or type somewhere as you go.

Some awesome channels to follow are:

- Bala G [Design Patterns]
- Gaurav Sen [GOAT -He is 'the' guy for HLD as well.]
- The Code Mate [Interview basics]
- Soumyajit Bhattacharyay. [Actual questions]

How to negotiate your salary?

It's better to know what to expect during a negotiation than to be caught off guard. People have been know to get 100%...

medium.com

5. Actual Interview Experiences

Last step - Self evaluation.

The question descriptions are intentionally kept hidden. Prep up first and come back to test yourself out. These questions are interview experiences shared by people.

- [Question 1](#)
- [Question 2](#)
- [Question 3](#)
- [Question 4](#)
- [Question 5](#)

Thank you for reading, and until again!



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**Written by Sandeep Kumar**

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Software Engineer, love solving real world problems. Enjoy talking about tech.

Responses (2)



What are your thoughts?

Respond

**MarudhuPandiyan**

7 months ago



Thanks for making this content bro!!



Reply

**Somerandom**

about 2 years ago



Gonna try this out



Reply

More from Sandeep Kumar

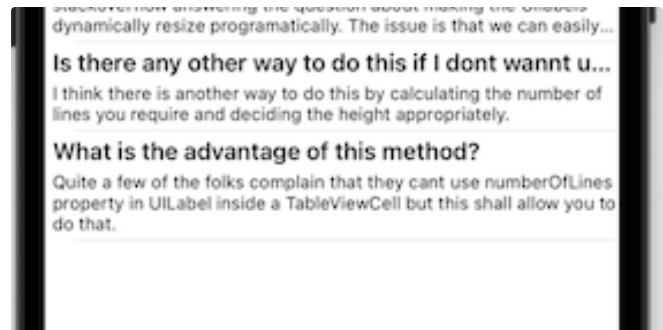


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Companies don't want to hire people who can't develop scalable and resilient systems....


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Custom UITableViewCell with Dynamic height (Programmatically)

In this Blog I shall be talking about adding Dynamically resizing UITableViewCells. Ther...

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In InterviewNoodle by Sandeep Kumar

Google Interview Experience 2022

If you wanna know read about Google interview experience, this article is for you.

Sep 1, 2022 🖱️ 431 💬 4



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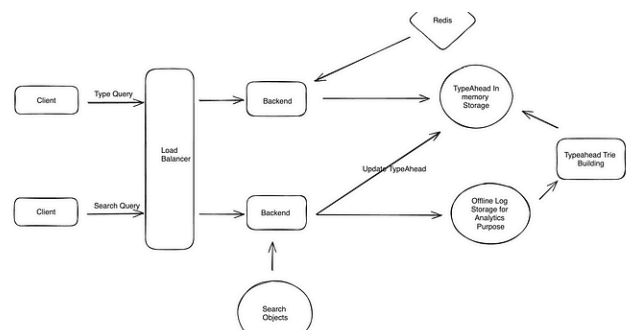
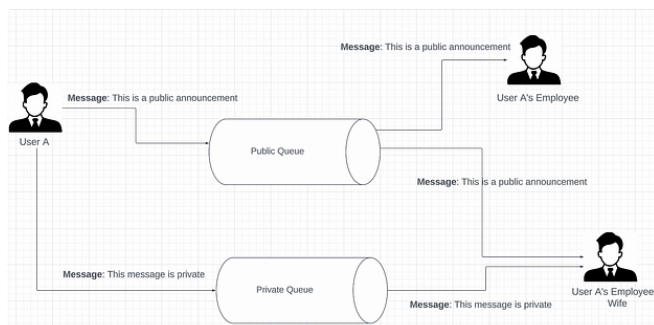
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Machine Coding (LLD)- Message Queue

Imagine a row of people waiting patiently for their turn. That's rare to see but that's queue....

Jul 5



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Sep 29



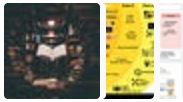
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Lists



Natural Language Processing

1845 stories · 1469 saves



Prashant Priyadarshi

4 Most Common Design Patterns that are essential to solve Low...

The 4 most common design patterns used to solve LLD interviews questions are: Strategy,...

Jul 12



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Mukul Jha

Commonly Asked Low-Level Design (LLD) Interview Questions

I have participated in interview processes at top companies and am sharing my...



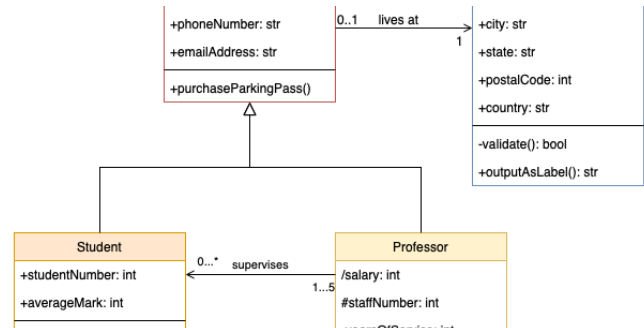
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 Aritra Sen

A Beginner's Guide to System Design

Must-Read Guide with insights and tips from my experiences to ace the System Design...

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 Ayushi Sharma

How to prepare Low Level design(LLD) for Tech interviews

Hi all, if you are someone looking for how to prepare Low level design and from where to...

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