

LLD	HLD
<p>S.O.L.I.D Principles</p> <p>Strategy Pattern</p> <p>Observer Pattern</p> <p>Design Notify-Me Button Functionality</p> <p>Decorator Pattern</p> <p>Design Pizza Billing System</p> <p>Factory Pattern</p> <p>Design Parking Lot</p> <p>Abstract Factory Pattern</p> <p>Design Snake n Ladder game</p> <p>Chain of Responsibility Pattern</p> <p>Design Elevator System</p> <p>Proxy Pattern</p> <p>Design Car Rental System</p> <p>Null Object Pattern</p> <p>Design Logging System</p> <p>State Pattern</p> <p>Design Tic-Tac-Toe game</p> <p>Composite Pattern</p> <p>Design BookMyShow & Concurrency handling</p> <p>Adapter Pattern</p> <p>Design Vending Machine</p> <p>Singleton Pattern</p> <p>Design ATM</p> <p>Builder Pattern</p> <p>Design Chess game</p> <p>Prototype Pattern</p> <p>Design File System</p> <p>Bridge Pattern</p> <p>Design Splitwise</p> <p>Façade Pattern</p> <p>Splitwise Simplify Algorithm / Optimal</p> <p>Accounting Balancing</p> <p>Flyweight Pattern</p> <p>Design CricBuzz / CricketInfo</p> <p>Command Pattern</p> <p>Design True Caller</p> <p>Interpreter Pattern</p> <p>Design Car Booking Service like Ola, Uber</p> <p>Iterator Pattern</p> <p>Design Online Hotel Booking System</p> <p>Mediator Pattern</p> <p>Design Library Management System</p> <p>Memento Pattern</p> <p>Design Traffic Light System</p> <p>Template Method Pattern</p> <p>Design Meeting Scheduler</p> <p>Visitor Pattern</p>	<p>Learn About Network Protocols (TCP, Websocket, HTTP etc.)</p> <p>Client-Server Vs Peer 2 Peer Architecture</p> <p>C.A.P Theorem</p> <p>Microservices Imp. Design Patterns (SAGA pattern, Strangler Pattern)</p> <p>Scale from 0 to Million Users</p> <p>Design Consistent Hashing</p> <p>Design URL Shortening</p> <p>Back of the Envelope Estimation</p> <p>Design Key-Value Store</p> <p>SQL vs NoSQL, When to Use Which DB</p> <p>Design WhatsApp</p> <p>Design Rate Limiter</p> <p>Design Search Autocomplete System / Typeahead System</p> <p>Understand Message Queue , Kafka etc.</p> <p>What is Proxy Servers</p> <p>What is CDN</p> <p>Storage types:</p> <p>(Block Storage, File Storage, Object Storage (S3) , RAID)</p> <p>File System</p> <p>(Google File System, HDFS)</p> <p>Bloom Filter</p> <p>Merkle Tree , Gossiping Protocol</p> <p>Caching</p> <p>(Cache Invalidation, Cache eviction)</p> <p>How to Scale Database</p> <ul style="list-style-type: none"> • Sharding (Horizontal and Vertical) • Partitioning • Replication, Mirroring • Leader Election • Indexing etc. <p>Design Notification System</p> <p>Design Pastebin</p> <p>Design Twitter</p> <p>Design Dropbox</p> <p>Design Instagram</p> <p>Design YouTube</p> <p>Design Google Drive</p> <p>Design Web Crawler</p> <p>Design Facebook News Feed / Newsfeed System</p> <p>Design Ticket Master</p> <p>Design NearByFriends or Yelp</p>

Design Online Voting System Design Inventory Management System Design Cache Mechanism Design LinkedIn Design Amazon Design Airline Management System Design Stock Exchange System Design Learning Management System Design a Calendar Application Design (LLD) Payment System Design (LLD) Chat based system Design Food delivery app like Swiggy and Zomato Design Community Discussion Platform Design Restaurant Management System Design Bowling Alley Machine Design (LLD) Rate Limiter	
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Research Paper:

<https://www.cs.unibo.it/~cianca/wwwpages/ids/esempi/coffee.pdf>

Github Topics:

<https://github.com/topics/low-level-design>

Class Technique for Car Boooking:

