# OOPS,

# SOLID PRINCIPLES,

# DESIGN PATTERNS

* explain Template design pattern

Micro services,

SQL,

C#,

.Net

# How do you troubleshoot

# Scrum process

# Basic questions around object-oriented programming

data structures,

indexes,

# database performance

* Caching- how to make use of it to improve performance, how will it work in clustered environment

# rest apis

* difference b/w Http Methods
* how to secure data posted via rest api

white boarding on algorithms

database index creation

# **Coding Exercise**

## - Print a tree - Design and code a toaster

## - Print a website navigation tree

## - Design an elevator

## - one recursive based challenge

## - traverse binary tree

## -- How to handle pagination and sorting.

## - Traverse through the tree structure and print all the nodes to display parent and child node relations

## -- fibornaci sequence or something similar.

## -- De-duplicate an array of integers.

## -- Retrieve substring from a string.

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# Behavioural

## **Have you ever faced conflict with a coworker? How did you resolve the situation? Or** tell me about a time when you overcame a difficulty

### **Situation**

1. Normally I am very friendly kinds of person and mingle well with all sort of employee
2. But there was time, A Business Analyst was introduced in team

### Task

1. I was tasked to work with Business Analyst to refine and understand requirement and bring it to workable state for team and map it technically. He normally did not share all the details and fact and later tell that it was also part of requirement. He also did not involve me in any requirement discussion. He also did not reply in meeting whenever asked the question that led to gap in requirement and development

### Action:

1. I requested to have one to one talk privately and explained the scenario that due to requirement gap our team is getting delayed and it hampering project deadline and work.
   1. we established thumb rule that requirement document will be shared in advance to development team
   2. Set up a meeting and talk openly of any question
   3. Sign off of requirement document from business analyst
   4. He agreed and we become fine in all aspect.

### Result:

1. We started to develop as per expectation and requirement and project delivered on time.

# What is your opinion on failure?

* Failure Is Success in Progress by albert Einstein.
* Everything that is successful today was failure in the beginning
* So, Failure is just one step learned lession toward success

# If you had to build a team from the ground up, what qualities would you look for?

--Bounce back quality

--Failure do not break but motivate to do differently

--Quick leaner and implementer

-- Attitude to go beyond duties

-- Hands On and Can-do attitude

-- Work without supervision

# Current/past projects.

1. We have a class that models navigation items for our client websites.

There is a root level item which is not displayed, but contains a list of child items.

These child items may have child items, which may also have child items, to an arbitrary level of depth.Write a method in C# or Java that takes in the root level NavigationItem and prints out the navigation structure in a format that a non-developer could understand and use to help them troubleshoot issues with a site. You can assume that all Lists of children are non-null and have length of zero when they are empty.

public class NavigationItem {public string Url;public string Label;public List<NavigationItem> Children;}

1. Patch HTTP Verb
2. Oauth
3. Design a API
4. Cloud Formation other way in AWS
5. 400 vs 500
6. Design pattern
7. Dependency injection
8. Unit testing mocking
9. Code coverage
10. Interface usage – uni testing for mock testing