Project

- Agile Management or which strategy which you followed in your recent project.
- What and all difficulties you phase in your previous projects?
- Jira
- SourceTree Working
- GitHub Command
- Git
- Version Control GitLab

React Native

- function component and class component
- use effect in functional component
- hooks example in react
- what is hooks
- use memo in react
- pure component in react
- props in react
- state vs props in react
- state in react
- redux
- redux middleware
- example of middleware which you use
- saga middleware
- generator function in redux saga
- flat list vs scroll view
- extra data in flat list
- keyextractor in flatlist
- flex box
- use dispatch in functional component
- interaction manager in react native
- settimeout in reactnative
- aysnc await set timeout
- context api
- context api vs redux
- all react native core concepts + async storage, session storage,
- how to integrate 3rd party libraries - realm and sqlite, geolocation, map, firebase, push notifications
- Redux, redux saga
- javascript concepts, typescript concepts, promise, array functions,
- mobile app states and its respective methods in javascript and react native
- css3 and react native stylings

Android

- Lifecycle =>
    - Activity
    - Fragment
    - Thread
    - Services
- Broadcast Receivers
- Intent
- Implicit Intent vs Explicit Intent
- If we want to make an activity as the first activity to be launched, what do we add in the manifest file.
- Passing data from one activity to another
- Can we use bundle to pass intent?
- Sticky, Pending Intent
- Intent filter
- How to declare/add activity in manifest
- Name an Android Exception
- Launch Mode
- Content Provider
- Tablet and Different Screen Size Layouts
- Android Network Library =>
    - Retrofit working
    - Volley
- Model =>
    - MVVM / MVI
    - MVC
    - MVC vs MVVM
- Thread, Service and AsyncTask
- Java vs Kotlin
- Kotlin =>
    - Var and Val
    - Visibility Modifiers
    - Null Safety in Kotlin

- Operator =>
  - Safe call
  - Elvis
  - Not Null Assertion
- Primary Constructor, Secondary Constructor, Copy Constructor
- Extension Function
- Extension Function examples
- Companion Object
- Firebase
  - Push Notification
  - Firebase Cloud Messaging (FCM)
- Lateinit vs Lazy Initialization
- When Keyword
- Coroutines =>
  - Coroutines Detail
  - Calling API from button and getting response from text and displaying that using Coroutines, which method will be called from it.
  - Dispatcher Type in Coroutines
  - AsyncTask vs Coroutines
  - Threads vs Coroutines
- Scope Functions
- Suspend Function
- Launch vs Async
- Lambda Function
- Infix Function

- Jetpack =>
  - Room Database Working
  - View Model
  - Live Data
  - WorkManager
  - Data Binding
  - Motion Layout Advance
- Jetpack Compose =>
  - Benefits

- Inheritance vs Composition
- Composable, Preview, Column, Row, Box, Vertical Scroll Functions
- setContent
- Core UI elements of Compose =>
    - Surface Composable
    - Wrap content of Composable
    - Align Composables
    - Row Column Box Composables
    - Layout with Row and Columns
    - Arrangements for Rows and Columns
- Modifiers
- Recomposition
- Navigation
- Thinking

- Singleton
- Singleton Object Creation
- Serializable and Parcelable
- Testing =>
    - Lint Tool
    - Dagger & Dagger2
    - Hilt
    - Coin
    - Dependency Injection
    - TDD (Test-Driven Development)
    - Continuous Integration / Continuous Delivery Tools
    - Android UI Automation
    - Junit =>
        - @after annotation
        - @before annotation
- Unit Testing =>
    - Espresso
    - Robolectric
    - Mockito

- Storage =>
    - Scoped Storage
    - SP, Internal, External
    - SQLite Database
    - Room
- Google Payments Integration
- Android - Instant Apps
- Android Memory Leaks - Leak Canary & Android Profiler
- Bottlenecks
- ML Library
- Clean Architecture - Advance
- Wear OS
- Near Field Communication (NFC)

Rx Java

- Single, Maybe
- Mono, Flux
- Error Handling => doOnError, onErrorReturn
- Full Working in Android

Core Java

- Try, Catch, Finally
- When Finally Block don’t execute in Java
- Can Static Method be Override
- Abstraction
- How to achieve Abstraction
- Abstract Class vs Interface
- Functional Interface
- inheritance, multiple inheritance, interface
- Can we interface two class A, B in same class C
- Pass by Reference vs Pass by Value
- Object is Pass by Reference or Pass by Value
- super keyword
- final keyword
- can constructor be final in java
- polymorphism and example
- example of function overloading and overriding
- exception handling in java
- what to put in try and what to put in catch
- if catch throws exception as well, what will you do
- finally block in exception handling
- name a java exception
- custom exception and create it
- Algorithm Used
- JVM / JRE / JDK and they occur in which part
- Memory Leak in Java
- Stack vs Heap
- String is Immutable => Why
- Array List vs Linked List, which one to use at different point of time
- Collection
- Type of collection used in Java
- HashMap

- Can we use Object as key in HashMap
- HashMap is accessed in multithreaded environment. Options to make it Thread-Safe
- ConcurrentHashMap
- ConcurrentHashMap is faster than HashMap in above option. Why
- Can we use Hashtable in above method
- Features of latest JDK => Java 8
- Java 1.8 Features related to memory
- Intermediate and Terminal Operations in Java 8
- Rehashing
- Why we use Immutable Object in Rehashing in Key, Value pair instead of Mutable Object
- Mutable Class
- Mutable vs Immutable Objects in Java
- Create Immutable Object in java
- Way to achieve Concurrency in Java
- Lazy Initialization and way to achieve it
- Singleton Class in Java
- Fail-Fast Iterator and Fail-Safe Iterator
- Threads and its advantages
- ExecutorService in Java
- Types of Streams
- Volatile and Atomic keyword
- Marker Interface
- Fetch Lakhs of records from a database in Java efficiently
- Catching
- String Pool
- SOLID Principles
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Advance Java

- Project Description
- Spring Boot Version
- Serialization => How to achieve it => Full Working
- Synchronization in Spring
- Transient Keyword in Spring
- Hash Collision in Spring
- HashMap and Concurrent HashMap difference in Spring
- Design Pattern in Spring
- Difference between factory and abstract factory design pattern
- Type of Annotations in Spring
- @Profile Annotation
- @Component and @View
- @Autowired
- Create @Autowired
- @RequestMapping
- @Service vs @Component
- @Controller vs @RestController
- @Controller Example
- @Override
- @Qualifier
- @ControllerAdvice
- @SpringBootApplication
- @SpringBootApplication = @Configuration + @EnableAutoConfiguration + @ComponentScan
- @Primary and @Qualifier annotation in spring boot and when to use it
- Any other convenient annotation other than spring boot application
- Bean in Spring
- Bean Scopes in Spring and which you have used in the project
- Default Bean Scopes in Spring
- Which Database you used in spring project and setup of code to database or server with full steps in spring
- Framework used in Spring Project

- Database Connection in Hibernate and 2 Database of Different Configuration
- Join with Hibernate
- Data Mapped to Db column query in Spring and get few rows from data in above example
- Connect Spring, Spring Boot to Database and Spring boot project deployment using Tomcat
- Single Sign-In in Java => Full Working
- Authorization used in project and how to create it.
- Token based Authentication creation
- How to change default Port
- Session Management => Spring, Spring Boot
- Session Bean Example
- SQL Injection Attack
- What is Spring, Advantages
- Spring MVC
- API => Advantages, Disadvantages
- Api used in project
- Rest API => Working
- Creating Rest API with Controller, Service, everything used in recent project
- Restful API endpoint and implementation of its endpoint
- Richardson Maturity Model - 4 maturity levels of Rest API design
- SQL Used
- Dependency Injection => Spring
- SOLID Principles
- Generics
- Create Generics Example
- Circular Dependencies and how to resolve them
- Setter Dependency Injection (SDI) vs Constructor Dependency Injection (CDI) and how to create them (Dependency Injection by Setter Method)
- Exception Framework which you have used in your project
- Microservices Design Pattern
- Triangular Feed Pattern in microservices
- API gateway in microservices
- Which API Gateway you have used in your project

- Rest Api Creation in Spring Boot
- Autoconfiguration in Spring Boot
- Request and Response headers in Rest Api Spring Boot

Program

- Count No of Alphabet and Integers in String and Array
- Separate character and integer from a String and stored them in array
- Count No of 1 and 0 in List using Single Variable
- Count No of Repeated Element Frequencies in Array
- Sort Elements of Array in Descending Order
- Swap Values of Two Numbers without using 3rd Variable
- Reverse String without using any Temp Variable
- Reverse Values
- Reverse String Array
- Find All Numbers that start with 1 from given array in Java
- factorial using recursion
- print all alphabet in java normally and using inbuilt function also
- Lambda Expression Program
- Logic Problem => 8 Balls in 2 Steps
- Brute Force Approach
- 0/1 Knapsack Problem
- Travelling Salesman Problem
- Bubble Sort
- Selection Sort
- Quick Sort
- Binary Search
- Hashing and Hash Functions
- Find if two string belong to same family in Kotlin or not and also by rearranging them.
- Large set of integers given and we have to find out top 4 frequency repeated.
- List of Integers and return value divided by 3 using Java 8 – Stream Api
- Mutable Class Example
- Using Stream –

  Input - Apple, banana, apple, Apple, kiwi, kiwi, orange, banana

  Output - apple - 1 Apple - 2 banana - 2 kiwi – 2 orange – 1

  Insertion order should remain as given in input
- String s1 ="abc";

  String s2 = new String("abc");

System.out.println(s1 == s2);

System.out.println(s1.equals(s2));

O/P - false

true

- Simple In-Memory Cache with Expiry

SQL

- Joins
- Create Index in SQL and Criteria for creating it
- SQL Functions – Types and example of it
- Multiple Primary Key is possible or not
- Indexes
- Query for maximum salary and using distinct also
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AWS

- Aws SKU
- S3 Bucket => Working, Advantage
- Compare to Normal Storage in Amazon => Local Drive
- Aws features used in project