Types of Projects:

1. Scratch Development (15)
2. Maintenance Project (75%) -> Enhancement, CR, Bug Fixing
3. Migration Project (10)

Types of Companies:  
1) Product Based company   
2) Service Based Company ->Coding, DSA,SB,MS,J8F,TOOLS,Cloud

DL: Distribution List (PMO team)

Skills requied for Java

1)DSA  
2)Core Java(Collections,oops,Java8,MT&Exceptions)  
3)SpringBoot  
4)Microservices

5)DesignPatterns   
 1.circuit breakee  
 2.Saga DP  
 3CQRS P  
 4.Bulk Head  
 5.Rate Limit  
  
6)Tools  
 - git  
 - JENKINS  
 -SONARQ

-LOOGIG

-ELK  
 -JUNIT

-KAFA  
 -Redis- chache  
 -Jera

Cloud  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
RealTime Tools:

1. Build tools : build tools are used to automate project build process  
   **Tools: Maven, Gradle, Ant**

* Create project folder
* Download libraries
* Compile source
* Package our application(jar/war)

1. Source code repository:  
   **Tools: Git,GitHub**

* To simplify code Integration
* To provide Monitored Access

1. Logging Tools: Storing the execution detailes to the file

Tools:Log4J, LogBack , Logstash

1. Log Monitoring Tools : to grt logs

Tools: Putty,EFK,Splunk

1. Code Review Tools :Identify developer mistake in the source code  
   Tools: SonarQuube
2. Unit testing : test individual component test   
   Tools : Junit+moking
3. Code Covarage Tools: to check which lines of code is executed in unit testing and which lined are missed in UT  
   Tools: Jacoco(80% coverage requied)
4. Project Management : Task Management , Bug aReportin  
   Tools : Jira
5. CI-CD Server: To Automate buid & deployement process  
   Tools: Jenkins
6. Containerization : To simplify app executon process in any computer  
   Tools : : Docker
7. Orchestration Platform : Managing containers (creation/delation/scaleup/scale down)  
   Tools: Kubernates
8. API testing :   
   Postman
9. Doumentation : API documation   
   Swagger
10. Performance Testing  
    Jementer
11. Message Brocker   
    Kafka