what collections are you familiar with

difference between arraylist and linkedlist and when to use them

how to reverse a string

latency and thoroughout

priorityqueue

microservices

new feature in java8

write a lambda expression

TDD

did you participate in writing use story

what test cases did you write

what is DI

how spring use DI, give an example

singleton and prototype

what is AOP and how it works

generic

inheritance vs polymorphism and give an example

hashes

coding:

whether a string is palindromic and test cases

print the graph like this

input is the number of the lines and write test cases

.

. .

. . .

. . . .

find the n most frequent name in telephone directory

public class Person{

private first name;

private last name;

}

count the number of each name

**spring(rest)**

**hibernate**

**java 8 ()**

**add 1 algorithm**

Heighlight of your achievements, introduce yourself.

Team structure, how many developers, tester

Talk about the company you previous work

what do you mean about self motivated? give me an example

How you study new technology, and apply it in your project

Give me an example about your communication skill

There are many conflict and disagreement between us, we will discuss it, and take a better solution, like in db design, we discuss about the primary key, relations , constraints.

Have you handle the situation like you can not make it before deadline.

Talk to tech leader, tell the reason like using new technology, server maintains shut down...

Follow up, you finish the story one week before deadline, what will you do in this week.

Test, learn new, plan for next sprint, help others.

Do you have any experience work remote with your team members, follow up, you alone remote or your team remote.

How do you work with your team members? how do you build relationship with your co-workers?

Questions?

30mins tech conversation

JAVA:

Different types of loops(for, while, foreach), follow up, why you use foreach, what is the advantages.

OOP vs regular expression programming

java access modifiers

class and instance scope and how they are related to static key word

Why it is better to use parameter collection,( genric Collection)

dont have to cast type, make the code safe, but java has type earsing, so the genric will be removed after compliation.

Abstract class and interface

interface can make our project loose coupling and we communicate using interface between different layer. and interface makes proxy design pattern easy to implements.

DATABASE

Can you discribe the process connect db using jdbc

load driver--> create connection using DriverManager.createConnection()-->create statement and prepared statement-->write query-->close the connection

Why prepareStatement is better than Statement when you want to pass parameters.

prepared statement can prevent sql injection.

reuse

faster because it is precompiled

dynamic

SERVERLET and WEB APPLICATION

The process after requet hit the serverlet

how do you determine which servelet will handle the request.(web.xml has mapping)

Which servelet feature do you use before before everytime the page loading.

Filter, follow up, what do you use the filter do?

Authentication,preprocess header or payload, do the sercurity

Have you use SOAP?

Follow up pros&cons SOAP and REST

Have you work with JSF

Advantages using ORM like HIbernate

lazy loading, eager loading, using java code to operate db, mapping

Describe JMS Enterprise Message Driven Bean and why you choose using that.

Project technology:

SOAP, JSF, JavaSript, IBM IDE, WebSphere server

Give me your experience?  
What is the most challenging part?  
Who is mainly in charge the system design?  
What is the next step you get the system?  
Did you write test case first or write service first?  
What happened you are done with coding?  
Who is the code reviewer?  
When you have done your work, what if there is bug, how do you fix it?  
Is the Junit and Mockito on your local?  
Details on JSON Object?  
Do you have some experience on HTML5?  
Relation between object and class?  
What you think abstraction in oop?  
What is polymorphism?  
Polymorphism vs inheritance?  
What is encapsulation?  
Difference between Array vs collection?  
Overriding vs overloading?  
Access modifier?  
What is Final class?  
Final finalize finally?

PayChex Jan 30, 2018 Client Call

1. Introduce yourself. Technical Strength

2. Everyday workflow? Where did you get requirement?

3. Tough time that you implement Hibernate? How to improve the performance using Hibernate?

4. How to use stored procedure in Hibernate?

5. Experience using git? What will happen after pushing the code?

6. Example using multithreading?

7. Openshift? TomCat?

8. Experience with Cloud technology?

9. Array v.s. List

10.OOP principles

11.Overloading v.s. Overriding

12.Constructor v.s. Method

13.Java access modifiers -> diff between protected, private, default, public

14.Diff between abstract class and interface?

15.final v.s. finally v.s. finalize

16.How do you rate yourself in writing queries?

17.Query optimization? Execution plan? Index? Half-table scan/ Full-table scan

18.Diff between function and stored procedure?

19.What is inner join? How many types of outer join?

20.Diff between primary key and foreign(reference) key?

21.Experience in HTML5

**Lyon Liu-Ascensus-01/24/2018-(F2F Interview) No Interviewer Name**

1. Tell me about your last project

2. Tell me how you used PL/SQL

3. How did you use Spring Batch in your project and give me a detailed example, e.g. jobs, steps, processor, writer, reader, etc.

4. What are the String functions in SQL you used?

5. How substr in sql works?

6. Did you use Procedure, Function, Trigger, Cursor those in your project?

7. What is the difference between Procedure and Function?

8. What kind of Triggers you used?

9. What kind of Exceptions you used in PL/SQL?

10. What kind of Java versions you used?

11. New features in Java 8.

12. Tell me the collections you used?

13. What are the differences between concurrentHashMap and HashMap?

14. What is failfast and failsafe?

15. How Java transfer parameter? (By reference or by value)

16. How do you deal with your relationship when you have different idea with your colleague?

17. What kind of attributes you want your manager has?

18. What is the work you are looking for?

19. Tell me how you used MapReduce?

20. How do you deal with the situation when your business client have new requirement but the previous requirement almost finish?

21. Where you used lambda expression?

22. How lambda works?

23. Which one do you think more easier to debug, lambda or old version of java?

24. What are Factory and Facade design pattern?

25. Where you used those design patterns?

26. How do you build and deploy your product?

27. Why we need Foreign Key?

28. What are the joins in sql?

29. What is right outer join?

30. Do you have any question?

**Jim-PayPal(Skype)-01/22/2018-Interviewer Name**

1. Rate your java 8 skill

2. How to convert a stream to collection

3. Sort by first name in java 8.

4. What sorted function you use in Arrays.sort()

5. Two persons have same first name,how can you sort by age?

6. What is default method and what is the difference between functional interface and lambda express?

7. What is Immutable object?

8. Why we need immutable object?

9. How to design an immutable object?

10. Why string has to be immutable?

11. What are the differences between LinkedList and Arraylist?

12. What is junit mock framework?

13. What is mockito?

14. What should I do to make sure that particular method is getting called?

15. Junit how to throw an exception?

16. What are the differences between singleton and prototype scope?

17. What is Autowire by type ?

18. What is design pattern?Explain about Bridge pattern ?

19. Any restful api design?

20. What type of resource did you model?

21. Describe yourself

22. How do you learn new technology?

23. How do you keep yourself organized?

**Vinod-Paypal-01/17/2018- (skype interview)John**

1. How comfortable using java 8

2. Write a program to Sort base on first name?

3. What is method reference?

4. What is default method?

5. Why they need default method?

6. Give me an example of default method added in any interface?

7. What and why you use stream?

8. What kind of operation can use?

9. Give me an example of Findfirst? Findany?

10. Rate junit/ Mockito?

11. How to make sure junit test throw an exception?

12. where to use Mockito.

13. How to do static class test?

14. Explain about Spring?

15. What is aspect/ where do you use in spring?

16. How can you Configure a bean?

17. How to configuration a bean in singleton?

18. Any AOP you done in the past? What do you use it for?

19. What is Design pattern?

20. What is Spring boot actuator?

21. How does spring boot work?

22. How to enable/config swagger?

23. What is swagger document?

24. Have you design any restful API in the past? What kind of functionality you created?

25. Any version in your API?

26. Describe yourself?

27. How do you keep up with new technology?

28. Time management?(I can’t understand)

**Lyon-Ascensus-01/12/2018-Krishna**

1. Tell me your cpt status?
2. Tell me your experience in spring?
3. What is Spring batch?
4. What is Spring batch advantage?
5. Explain about Restful experience?
6. Which authentication framework do you use?
7. Tell me the authentication information in the header?
8. Explain about DAO / façade pattern?
9. What are the different collections in java?
10. What are the different set implementations?
11. What are the differences between HashSet and LinkedHashSet?
12. What is Mapreduce?
13. How many tables are there in your application?
14. How complicate your query is? How many tables you join?
15. When you create stored procedure? How do you expose it?
16. Have you ever created database table?
17. What is Linux, why do you use Linux?
18. How do you copy file from one server to different server?
19. How do you search ?

**Jim Fu-Ascensus Inc-01/03/2018-Arundash**

1. Tell me little about previous project?
2. What about prior to previous project?
3. Do you have any experience on JBoss, RestEASY?
4. Can you tell me real world example where you have used stream api and lambda?
5. Did you use any comparators?
6. How do you sort a map?
7. How much work have you done on regular expressions?
8. What are the common date obj have you used?
9. How comfortable are you with REST services?
10. Are you client for rest services?
11. How to secure the rest services?
12. Do you have exposes on how to understand those security stuff?
13. Tell your understanding on http session?
14. Is httpsession part of http protocol? Is the http session stateful?
15. Is it a cookie based on browser?
16. Do we have to always pass in the cookie?
17. If you store something on first request, on the second request you want to request that information, how?
18. Do you explicitly pass in the session ID?
19. What are the things you have used in http session?
20. What are common methods used in http request?
21. What are the differences between getparameter and getparametername?
22. What are looking for in a new job?

**Shelly Xiang – ADP-01/03/2018-Diego**

1. Tell me about Javascript ?
2. What is Microservices ?
3. Have you worked with any containers? Dockers?
4. Tell me more about your second project?
5. What are the differences between mongoDB and MySQL?
6. How to have logic in mongodb?
7. Have you run mongodb in multiple centers?
8. How much work have you done in JS?
9. What is your goal? What do you want to do?

**Verizon-Tom-12/20/2017-Alex**

1. Introduce yourself and your last project ?
2. what is restful api?
3. how do you define restful webservice, architecture, what is the key idea of design restful ?
4. What are the differences between soap and restful ?
5. Is restful stateless?what does stateless mean in the restful?
6. how does server know the request is sent by same people ?
7. what the session is?
8. how does the server and client know they are sharing the same session.
9. what is sessionID. how does the sessionID work?
10. What is Collection?
11. Create an interface define it as MyQueue
12. What is Hash Algorithm ?
13. What is the difference between Thread and Process?
14. what mechanism can you use avoid sharing resource, memory leak?
15. What is immutable object ?

**Jerry Liu-Team Focus–12/18/17- Jeanette**

1. What is java
2. What is underline design pattern?
3. What is spring dispatcher servlet ?
4. Is servlet thread safe?
5. Is java dynamic typed language?
6. Can you force GC in java?
7. Which is synchronized is it Arraylist or is it vector ?
8. What is access modifier use to make accessible only in its class?
9. What is common base for error and exception?
10. Does java support multi inheritance?
11. Can override static method in java?
12. Why we need to override equals() and hashcode()?

**Tom Yang-Joshua/Jerry-12/13/2017-Predictive Solutions**

1. Can you tell me the Workflow of previous project?
2. What is NoSQL,tell me your experience related to using NoSQL?
3. Explain about Jenkins ?
4. What is ReactJS/ background for JS?
5. Which Subversion you prefer, SVN or GIT?Why?
6. If there is one thing you can change from any previous project, why?
7. What is your experience in db? Any functions, joins?
8. What are the different type of joins ?
9. When use inner vs outer join
10. What is Cross join?
11. Did you write any class diagrams?
12. 1 class wants to interactive with another class, what is the relationship between the 2 classes
13. What is diff between aggregation and composition
14. Explain about AGILE?
15. What do you know about scrum?

**Jim Fu-Apple-12/12/2017-Bobby**

1. Explain your previous project.
2. What are the most used java 8 new features?
3. What are the Changes in interfaces?
4. What is Subclass?
5. Can child class call parent class method?
6. What is Overriding?
7. What is static block ?
8. Explain try-catch?
9. What about finally?
10. Can we have finally with out catch?
11. What type data structure you used?
12. What are the differences between list and set?
13. Can we have order in set?
14. What is MVC, explain the process?
15. Did you Use jsp?
16. Explain about Agile.

**Jim Fu-Apple-12/12/2017-Bobby**

1. Explain your previous project.

2. What are the most used java 8 new features?

3. What are the Changes in interfaces?

4. What is Subclass?

5. Can child class call parent class method?

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7. What is static block ?

8. Explain try-catch?

9. What about finally?

10. Can we have finally with out catch?

11. What type data structure you used?

12. What are the differences between list and set?

13. Can we have order in set?

14. What is MVC, explain the process?

15. Did you Use jsp?

16. Explain about Agile.

**Ian-FEPOC 12/01/2017-Interviewer**

1. Write a class with main method and explain everything

2. Design two classes to handle the business logic of having interview.

3. How did you handle security problem?

4. Did you pass the userId via request?

**Jennie Wu-Pay Chex-12/01/2017-Rocco Sanfilippo and Matt Baron**

Behavior:

1. Tell me more details about how your team followed the AGILE methodology.

2. Your biggest challenge?

3. Give me one example of the system design.

4. What new idea/improvement you presented to the team?

5. Tell me an example you struggle with

6. Have you missed any deadline? What would you do in advance when you anticipate issues from like DBA to make sure you meet deadlines.

7. What are you looking for in this project?

Core Java:

1. What are the differences between set and map.

2. Why you used ConcurrentHashmap?

3. What is Synchronized keyword?

4. What is lambda expression.

5. Which is your favorite design pattern?

Code review.

1. getInstance method, not static, not thread safe

2. BigDecimal cannot do bigDecimal1 / 100

3. Did not close connection and statement

4. Some comments for the class.

Kaixiang-Apple-11/30/2017-Paul

1. Introduce yourself

2. Explain about project development cycle, how large is the project, for what use.

3. describe another project.

coding

4. Split the String by delimeter.

Eg: “a,b,c” with delimeter “,” would return {“a”, “b”, “c”}. “a,b,c” with delimer “ ”would return {“a,b,c”}.

5. Reverse the words in pased in sentence. Assume words are separated by white space.

Eg: “This is a test” would return “test a is This”.

6. Determine if the two passed in string are acronyms of each other (ignoring case)

Eg: “SAVE” and “vASE” would return true

**Kai Xiang-Apple-11/29/2017-Kris Boy**

1. What are some some challenges you faced, or something you are proud of?

2. What kind of data, request (single/multiple), which part you need to process concurrently?

3. How exactly did you implement the multithreading?

4. When you click submit, what object returned?

5. Get method block or not blocking?doubt

6. How many requests per second?

7. If Web page is showing too slow, what would you investigate?

8. Which Browser debugger tool you used?

9. Is Singleton controller thread safe?

10. How do you cache user information?

11. How can you make a piece of code as thread safe?

12. How do you make executor process more requests concurrently?

13. Anonymous java usage example? Doubt

14. Comparator, Collections. Sort, overwrite some method

15. Why you use anonymous class?

16. Code easy to read, no need to create a new class every time we need it

17. What are the differences between hashmap and concurrent hashmap?

18. Can you make a hashmap as thread safe?

19. What is the complexity for hashmap insert?

20. What is complexity of array insert?

21. What is complexity of treemap insert?

22. What the default spring bean scope?

23. Singleton controller has a method getUser, has some parameters (first name, last name), cast the user bean property scope, how to do that?

24. What are the different ways of creating beans in spring? How?

25. Many to Many relationship, User table and Address table.

26. Need the third junction table, user\_address.

27. How to model this in Hibernate?

28. In production, how to find out why deadlock happens?

29. Deadlock in db or java code?

30. What type of java code creates deadlock?

31. Why serialization cause deadlock?

**Lyon-Apple-11/20/2017-Kevin**

1. Introduce yourself.

2. Where you are currently working?

3. Why people move to Spring Boot?

4. What is Design pattern? Why you used DAO?

5. Do you encounter any performance issue? How to fix them?

6. Have you ever used profiler?

7. Have you used no-blocking I/O?

8. Reactive Design Pattern?

9. What is Completable Future?

10. What is Graph DB?

11. what is Generic Wildcard?

12. If 2k user concurrently hitting your controller? What can you do with your server? (Let's say Tomcat)

13. OAuth 2.0?

14. What is SQL Injection?

**Dinesh Patel-Apple-11/10/2017-Manish(Infogain)**

1. How Good are you to Multi-Threading?

2. What is String in Java?

3. How can we make our own immutable class?

4. What is Final Keyword in Java?

5. How to count Occurrence of Character in String?

6. How can we get the first character with One Occurrence?

7. Multithreaded version of a class of Print Even and Odd number alternatively?

**Kai-Apple-11/10/2017-chandan\_kurmar**

1. Tell me yourself and about your experience

2. What is multi-threading in web services?

3. how to implement multi-threading?

4. what did u do to implement multi-threading (real example) (implement by yourself executor service, to create thread pool)

5. what are differences between callable and runnable

6. What is wait () and notify ()? where these methods exist?

7. What is synchronized static method (what benefit use synchronized)

8. What is design pattern (implements any design pattern)?

9. how to get a singleton object?

10. What is eager () and lazy () (still in singleton, we cannot use any spring IOC)

11. What is lazy initailtion (create instance check if instance will be there)

12. Is singleton thread safe?

13. What are the interfaces do you know in Collection Framework?

14. list remove duplicate elements?

15. can we sort hashmap?

16. how to implement web-service (spring MVC)?

**Tom Yang-AXA-Brad-11/10/2017**

1. Introduce yourself?

2. What you did and how you build Spring boot APIs?

3. What did you mean war file?

4. Tell me your experience with UI?

5. How did you get your assignment? How much detail you get, how much you did not get?

6. Give some scenarios about the Stories?

7. Who builds the tickets? and work with BA?

8. Java8 default methods?

9. What's the specific reason you use default method?

10. Why you choose interface default method rather than abstract class?

11. What you are doing there about hibernate configurations?

12. Did you create the pojo based on tables manually?

13. Would there be specific reason use Lambda expression to implement business logics?

14. How big was the database? How many tables?

15. You also did some communicate with offshore?

16. Were you responsible for that team?

17. Where you would use Factory pattern and singleton pattern?

18. ActiveMQ?

19. Did you bring some new teaches or ideas to the team?

20. what would you want to use or what's your architecture of a brand-new application?

21. What would take into consideration when you use micro service?

22. What make a microservice?

**Tom Yang-Finra-11/09/2017-Interviewer Name**

1. Introduce your tech stack and experience?

2. How you create and consume REST services?

3. How do you handle exceptions in Spring?

4. How do you validate in Spring?

5. Navigation in Spring?

6. How can you handle Transactions?

7. Tell me your experience Hibernate with Spring?

8. How did you use Spring-Boot?

9. What is Applicaiton.properties?

10. What is ConcurrentHashMap?

11. How do copy a object?

12. How to create singleton object?

13. How would you improve the performance of your application?

**Rudy Liu-Apple-11/08/2017-Interviewer Name**

1. load a page for too long

2. How can you check how many requests per second?

3. increase capacity for traffic?

4. the architecture you designed?

5. do you use any cache when using third party api?

6. we don’t have any cache for third party, we need the real data, we don’t have facilities if their server is slow, we shut down temporarily

7. user complains?

8. describe your experience with background thread, calling third party api, do not block your own api, to do asynchronized query?

9. in project, very large database, in terms of rows or tables?

10. how you were able to do database tuning for queries?

11. you can’t touch the database, you got data directly from others, how do you tuning, are you doing the application level tuning? like hashmap?

12. reading customer records, have api to read customer records from database, is that call exposed to customer or not?

13. token calculated from user login to include in the api?

14. security issues you met?

15. is scaling important?

**Owen-Apple-11/07/2017-Kris**

1. Introduce yourself? Challenges? Tech? Accomplishment, etc.

2. How did you determine how many threads in the thread pool?

3. How did you make sure all the requests completed?

4. What are the differences between ConcurrentHashMap and HashTable and HashMap?

5. Can you read and write the same portion of the memory?

6. How can you have synchronized HashMap?

7. Two methods in two threads, one write and one iterate, what will be the problem.

8. What does the class thread safe means?

9. What is the default scope of Spring bean?

10. How do you make sure the controller(singleton) is thread safe?

11. Can you have instance of controller one in controller two?

12. How can you Implementing cache?

13. What are the Other cache ways, don't use build in caching methodologies? which Collection you would choose?

14. Complexity for deletion one from an array? Complexity insert into Treemap?

15. Server your application running on? How many? (Doubt)

16. Who use the application? (Doubt)

17. Do you use some JS tech for UI? Use session?

18. Everything you implement is for API?

19. Did you work on Oracle?

20. How do you make sure the change you make to the table, and the query is performing well?

21. Do you have any questions for me?

**Owen Yang-CDK-11/03/2017/Srini**

1. Do you know about jQuery and Sql5?

2. What is Restful Services?

3. Can you give an example of HTTP Methods?

4. Do you know about Collections?

**Coding:**

5. Given pack of playing cards, write a program to shuffle the cards

a. Don’t use any api/methods

b. Assume the input is a list of 52 cards

6. What type of Unit Test you used?

7. What is the default scope of Spring bean?

8. How is Singleton bean is different from Singleton design pattern?

9. What are the builder tools you used?

10. most recent challenges in recent project

**Write a program**

11. Given 2 software version string v1 and v2,

-1 if v1 < v2

0 if v1 == v2

1 if v1 > v2

**Dinesh patel-Finra-11/02/2017-Brain Goldspin**

1. Tell me about your self

2. what is your UI exp.

3. Tell me about Spring, why you used Spring, Tell me more

4. What is Spring Bean

5. Life Cycle of Spring

6. What are scopes of Spring Bean?

7. What is default Scope of Spring Bean?

8. Tell me more about Hibernate?

9. What are the differences between comparator and Comparable?

10. What are the differences between Set and List?

11. What are the differences between Queue and Stack?

12. What is the difference between Private and Protected?

13. Tell me more about Angular JS

14. Block of HTML code exec

15. How about JQuery and JavaScript

16. Event Handler vs <a> using JQuery, block of code to run ->(Doubt)

17. what are the differences between Java 7 and Java8 ?

18. How to get up to date with learning new Technology?

19. Tell me more about to the Recent Job?

20. What Spring Boot provides?

21. Running Spring Boot vs Spring MVC Project?

22. did you use GIT for your Source Control?

23. diff rebase vs merge

24. browser -> https//::www.Google.com -> what will happen?

**Lyra-AXA-11/02/2017-Brad Hoffman**

1. Talk about your last project.

2. What’s your role in developing controller in the application?

3. Which annotations you used for RESTful controller and POST mapping?

4. Did you develop services layer? How did you develop your services?

5. How to hook up controller and service?

6. Did you have experience in Apache Camel / JBoss Fuse?

7. What are key things / features in Hibernate?

8. How did you involve with design in your last project?

9. What is your experience with Angular?

10. What is the command to grab a certain branch in Git?

11. What was your experience with JUnit?

12. How do you use JUnit in Spring to get data from services?

**Lyon Liu-AXA-11/02/2017-Interviewer**

1. Introduce yourself?

2. what is Development environment, what is the team environment, and how did you get your assignment, etc?

3. Give an example of Story in Scrum, some detail information, how large requirement document, technical design doc, how was it been delivered, etc.?

4. How did you package, configuration files, and properties files?

5. Which properties files is involved?

6. Familiar with maven?

7. Familiar with Spring Data Rest?

8. What media type exported using Spring data rest?

9. QueryDSL?

10. Did you do alone with SpingBoot? Entity graphs describe the structure of the classes?

11. Tell me your project experience by using Spring framework?

12. Tell me UI related development experience

13. What questions you have for us?

14. Experience about MongoDB?

15. Did you introduce some new technologies into your project? or some advice?

**Kai-CDK-10/31/2017-Vijay Kumar**

1. What is rest

2. what are the differences between Rest and soap?

3. What is json?

4. Can you use json for backend to backend?

5. How to parse between object and json?

6. How to ignore password in json?

7. How to secure Rest service?

8. What are the differences between eager loading and lazy loading?

9. What is the difference between Singleton bean and prototype bean

10. Is it okay if many threads access a singleton bean? Explain why?

11. What are the types of Collections?

12. What is Unmodifiable list?

13. How to make tree set unique?

**Kyle-Bayview-10/31/2017-Interviewer (Tech Manger)**

1. explain about your latest project?

2. What the frameworks you used in this project? Explain about JAX-RX with Jersey?

3. How you implemented it? what API?

4. How you use spring boot?

5. What framework you used to transform JSON?

6. How Marshall back to domain object from JSON?

7. What is the return statement? <ResponseEntity>

8. How would you set the responseEntity? Where were you setting the data into responseEntity?

9. Would this only work flow you were working in you latest project? the service architecture, the design?

10. How would wire your endpoint?

11. How do those autowire works?

12. How would access your services?

13. How did you create the service classes?

14. How/Why did use this @Transactional?

15. What is the scenario would you use @Transactional? Would this annotation slow down the performance or have any issues?

1. We have a read and a write, two threads, let’s say the read did not happen, what will be the situation?

2. What is Rollback?

3. How do you tell @Transactinal to rollback and when? (rollBackfor)

4. How would differentiate the situation to rollback?

5. How do you handle those rollBackfor?

6. What if you have to call multiple databases?

7. You would do the transaction for those different connections?

8. How did you get the DAO in Service?

9. What is the annotation for DAO?

10. How did you autowire Hibernate to DAO? (Persistence Context)

11. Did you consume any REST services, internal or external services? restful or soap like that?

12. How did you use RestTemplate?

13. What is the difference between entity and object?

14. Have you consume any soap services? or expose soap?

15. What does the wsimport do?

16. How strong are you working in soap? creating or consuming? which framework or architecture you think the design is better?

17. How would you implement security in your REST?

18. Have you work with Spring Security?

19. How would you architect your REST that you can assure that the person consumes it is the person you are aiming to? (token based)

20. Have you ever implement some token based before?

21. Why would use this token based (JWT) in an internal project?

22. What is Authentication?

23. What did you do in those projects before the latest one?

**Ian Wang-Finra-10/31/2017-Interviewer (F2F interview more than one people)**

1. Using Stack to implement Queue

2. Give a list of iterators, print the next element of each iterator and loop while any iterator is not empty.

a. {{1,2,3}, {4,5},{6,7}} output 1,4,6,2,5,7,3

3. what is memcached?

4. Design rest api for pizza store like get put patch method.

5. How you handle stress?

6. What are the Spring Bean scopes?

7. What is Spring boot?

8. What are the Scopes in Angular?

9. What is Angular

10. What is the difference between Angular and Angular 4?

**Owen Yang-CDK Global-10/30/2017-Viorel Chita**

1. can you write a program in Data Structure?

i. compare -> insert, delete, lookup/search

(LinkedList array HashMap Set)

2. one million records like name: number. sort it with limit 1000 rows in memory and name.

**Ian Wang-Equifax-10/26/2017-Bran, Jennie**

1. Introduce yourself.

2. Talk about the architecture about your application.

3. You have business layer and data access layer how did they work?

4. Did you have any concerns about high number request?

5. What is Dependency Injection?

6. Talk about Scrum experience.

7. How did you put your development environment to production?

8. What is abstraction and why it is important?

9. What is Unit test, is that the part of you Integrating Test?

10. Do you hear about Micro-Services?

11. Do you know no-sql concept?

**Challenge:**

12. Paragraph of text, find the occurrence of a given string. Build a method to implement this.

**Ian Wang-Equifax-10/26/2017-Terrp Brunch and Charley Smith**

1. Introduce yourself and your project.

2. Difference layer of a distributed system?

3. Advantage and disadvantage of Hibernate?

4. Large database millions of objects

5. What are the differences between SQL and NoSQL

6. What is Frond-end? What is Backend?

7. What is Code coverage? Which Tools you used for code coverage? Percentage?

8. What is Bad code

9. Coding Problem. Given a paragraph. Calculate the count for each word.

a. Input large?

10. Case-sensitive?

10.

11. What is Fuse?

**Lyon Liu-BayView-10/25/2017-Deepaks**

1. Explain about your current project?

2. What is SOAP?

3. what are the different models in spring?

4. Which database you used in your project?

5. How can you configure database?

6. any beneficial for use spring boot versus springMVC

7. What are the differences between Java 5 and java 8?

8. what are the Annotations you used?

9. add service in controller? @service

10. what is the benefit of encapsulation?

11. what is the difference between abstract class and abstraction?

12. What is marker interface. what is the use of marker interface?

13. how to make a class thread safe?

14. what are the collections you used?

15. what is hash collision?

16. how to resolve hash collision?

17. create your own linked list?

18. what is node object?

19. what is the data type of node?

20. design and code your own linkedlist?

21. What is Restful?

22. what are the differences between jersey and Jax-WS?

23. map Json data to java?

24. how to handle exceptions in spring framework?

25. What is @RestController?

26. In Spring boot what feature you used. what are the important features of spring boot?

27. What is @AutoWired?

28. what is the default bean scope?

29. interesting for frond-end?

30. What are the different topics of Angular 2 you learned?

31. Tell me about Singleton, Factory and Template design patterns?

32. What is Decorator Design pattern?

33. What is Junit?

34. What are the benefits of JDBC template?

35. What is Stored procedure give me an example?

36. what are the differences between left join and inner join?

37. write a query to many to many relationships?

**Ian Wang-Finra-10/25/2017-Brian Goldstein**

1. Introduce yourself

2. Tell a little about Spring

3. How u use Spring

4. Tell a little about Spring boot

5. How Spring boot run as a standalone application

6. Tell a little about Hibernate

7. Why you want to use Spring AOP

8. Differences between Set and List

9. Differences between private and protected

10. What is Package modifier

11. What are the New features of Java 8

12. What is Transient key word in java

13. What is @Transient annotation

14. What you worked with in terms with UI

15. Are you Comfortable with both frontEnd and backEnd?

16. How you actually keep up to date

17. You worked some project outside (personal)

18. What is Singleton Design pattern?

19. Do you familiar with AWS or cloud platform

20. What resources of AWS did you use

**Lyon Liu-Apple-10/23/2017-Navaneeth Mishra**

1. Describe different UML diagrams, use case / class / activity / sequence / etc.

2. What is sequence diagram for?

3. What is used when building your project.

4. How to inherit dependency from parent pom to child pom?

5. Tell me the Function / logic / technical challenge in projects, complex issue in your project?

6. Given a system as a black box, how to find functionalities of that system? How to locate a problem using that system, if there is one?

7. If facing a problem cannot solved by yourself, what steps will you take?

8. Why private constructor in singleton design pattern?

9. How to design Serializable interface on your own?

10. what is Externalizable interface?

11. What is NumberFormatException?

12. What is the fastest sorting algorithm?

13. Complexity for a for loop?

14. Complexity for any recursion method?

15. How to debug a stored procedure?

16. What’s the difference between Java 7 and Java 8?

17. How to secure RESTful web services?

18. What are the advantages & disadvantages of Agile?

19. Design the login functionality of a multi-layer application.

20. What are the New technologies exciting you.

**Lyra Pan-Finra-10/20/2017-Brian**

**Round 1-Brain:**

1. implement queue have 2 stacks

2. list return each element of iterator [[1,2,3], [4,5], [6]]->[1,4,6,2,5,3]

3. One front end ui access our old soap server and other third-party rest api

4. If third party api was not reliable<-cache

5. Old soap server converts into new rest api, separate dB how to make sure updates

6. AWS-if our old server is not enough to provide the service and we add a new server, how can we implement the cache that was associated with our old server

**Round 2-black guy**

1. explain your last project. how to hide password from ui. How to pass list of data to front end.

2. Design a to-do list rest controller

3. How to store item in database with status (done, ongoing, etc.) without having a field in our entity class

4. take a string return how many times vowel appears. “Car is here” ->4. Return string represents vowels’ s first appearance. “Car is here”->”air”. Using Java 8 to do that.

**Sarah-Apple Inc-10/20/2017-Prashanth Nair**

1. Modules of Spring you worked with.

2. How Spring Boot help? Comparing to Spring core?

3. How to configure different servers in Spring / Spring Boot?

4. How to tuning JVM?

5. How Spring / Spring Boot handles transactions?

6. Design patterns used.

7. Why default bean scope is singleton?

8. What is observer pattern, and usage of it in project?

**Bennie Liu-USPTO-10/16/2017-Interviewer**

1. What is JBoss Resteasy? what are the differences between Resteasy and restful?

2. What library to use for XML parse?

3. What JBoss fuse?

4. ESB stands for?

5. Mojito, how many years? What is JUnit?

6. What is version control system?

7. SVN stands for?

8. What version of database? Oracle 11g, MySQL

9. What are the differences between Oracle and MySQL?

10. How many tables max in your project?

11. How to achieve optimum searching query? execution plan to check index

12. What are the differences between first and second and third normalization?

13. What type of keys to use in first and second normalization? (primary key, foreign key)

14. How many records in transaction table?

15. What is VLDB (Very Large database)?

16. Explain about Maven?

17. Explain about Hibernate?

18. What is HQL?

19. Write a query in HQL and later want to use MySQL?

**Lyra Pan-Apple-10/11/2017-Khan Imran**

1. Explain about your current project?

2. Explain about Spring MVC Flow?

3. What is hibernate? What are the benefits of hibernate and what is hibernate session?

4. What are the java8 features?

5. what is comparator?

6. What is Functional Interface?

7. What are the differences between List and Set?

8. What is Optional API?

9. What is Completable feature in java?

10. What are the life cycle methods of Servlets?

11. What is Hashmap and LinkedHashmap?

12. Can you sort any kind of Map?

13. What are the types of Exceptions?

14. What are the differences between checked exceptions and unchecked exceptions?

15. How can you create Customized Exceptions?

16. What is Synchronization you use it?

17. What is lock?

18. What is object level and class level lock?

19. What is Transaction Propagation?

20. What are the differences between Spring Transaction and JDBC Transaction?

21. What is Join Point and Point Cut?

22. How can you test your own code?

23. What is Unit test, unit and Mockito?

24. where you use Mockito

25. Why you prefer Spring boot?

26. Explain about EJB Tx?

27. What is Lambda Expression?

28. Explain Supplier & Consumer Problem?

29. Employee:

a. name, age, salary

b. get the employee with highest salary

c. get the employee with youngest age

**Mehul Prajapati/Vinod Prajapathi-Apple-10/11/2017-Kevin Simon**

1. Coding: Class Employee which contains 3 fields, get Highest Salary and Youngest Employee.

2. What are the types of Exceptions

3. How to handle Run Time Exception.

4 What will happen if for HashMap we are overriding

5. What have you worked on Spring?

6. Spring Transaction Management

7. Spring AOP

8. Are you familiar with Java 8? What are the new features of Java 8?

9. We have two methods test (Object obj) and test (String str)

is it possible?

Which method will be called when we pass null

We are replacing test (object obj) with test (StringBuilder sb) and passing null

10. Assume that there is a table which contains millions of records, you need to read that data and write in files. You have only one standalone machine. The server may get crashed over the time while reading and writing. You must start from where you left off.

11. Difference between HashMap and LinkedHashMap.

12. How would you sort the HashMap?

13. Life Cycle of Servlet.

14. Why Spring Transaction Management is better than JDBC Transaction?

15. What is JoinPoint and PointCut?

**Ian Wang-Equifax (Phone Interview)-10/11/2017-Gabriel**

1. Introduce yourself, what you have done and what are you doing?

2. How dependency injection works? When did you need to use it?

3. Talk about modules you developed in your project?

4. How can you secure web services?

5. How can you tell the service authenticated?

6. Can you write the code for the header, inspect?

7. Tell me your database experience?

8. What is Sql tuning. How to improve performance? (in terms of hibernate and spring)

9. What is Normalization, how can you split the table, what is double check index.

10. What is Cache? What is lazy fetching? What is parallel stream?

11. Server has too many connections to database server that exceeds the connection pool limit, how to solve it?

12. How to add new server? How to maintain the connection between server and database?

13. You have 50 servers, how to add database servers.

14. How to return number of unique words and occurrence in a paragraph?

**Frank Huang-Starbucks-10/03/2017-Interviewer Name**

1. Quick recap

2. Percent code VS activities 80:20

3. Team type

4. How long is your sprint?

5. What do you looking for your next position?

6. Other role in your scrum team other than developers?

7. Explain about your previous project, what are the differences between REST Soap API?

8. What is LinkedList?

9. What is the difference Composition and Inheritance?

10. What is overloading?

11. What is overriding?

12. What are Access modifiers?

13. Can you name interfaces in Java Collection’s API?

14. How map differs from set?

15. How to compare two string variables?

16. What if FINAL on method, on class, on variable?

17. Which java version you used?

18. What are the differences between Java 7 and java 8?

19. What is REST standing for?

20. What are HTTP Verbs?

21. When did you typically use each of those

22. How format response type (Content Type)

23. What are caching technologies?

24. What is Redis?

25. Explain about Elasticsearch?

26. What is MQ? Where did you use it?

27. Difference between topic and queen

On Collabedit.com

**3 code questions:**

1.Implement List<String> repeat (String word, int count) //if call repeat (“hello”, 3), it return (“hello”, “hello”,

“hello”)

2.Implement the test case:

Public class RepeaterTest{

Private String word;

Private int times;

@Before

public void init() {

this. Word = “a”;

this.times = 3;

}

@Test

public void repeaterTest () {

Repeater re = new Repeater ();

assert That (re.creat(word, times), hasItems (“a”, “a”, “a”));

}

}

**3.** Implement a restful api

URI: ../cars?make=Honda&limit=10

@RestController

public class CarController {

@RequestMapping("/cars")

public Greeting greeting(@QueryParam(value="make") String make, @QueryParam(value=”limit”) String limit) {

String carMake = name;

String limit = limit;

return new car.getBy(name, limit);

}

}

**Wang Mitchelli-CDK Global-09/25/2017-Interviewer Name**

1. Introduce yourself?

2. Tell me more about your current project.

3. Do you have any experience in Agile methodology?

4. How many people were part of your team?

5. How the responsibility was shared among team members?

6. Explain me the process your team followed from planning to delivery.

7. How story points are calculated?

8. What was the difficult part in post-scrum meeting? (What went wrong, area of improvement, good practices followed etc.)

9. What are the improvements your team implemented by post-scrum meeting?

**Jacy Han-PayPal-09/19/2017-John**

1. Tell me your experience?

2. pick a past project and explain

3. what is daily work like?

4. how do you do testing?

5. how do you monitor the performance?

6. How do you do the deployment?

7. Design Restful api?

8. Design a Dept/Emp rest api?

9. How do you design the URL?

10. Which methods you used in Restful API?

11. how do you deal with the emp-dept relationship?

1-1, then 1-many, which url to use?

12. what does the payload look like?

13. write out how the database would look like? -design the table?

14. given a string, return the most frequent character

for example, for"abccc", return 'c'

"PayPal" return 'P'

what happens when input is 'aaaccc'?

15. given a string, reverse the string, but keep the string space pattern

for example, for "abc de" return "edc ba"

16. written with index manipulation and string buffer

write test cases

17. what happens when there are multiple spaces? start with space? end with space?

**Jacky Han-Paypal-09/15/2017/Eric, John**

1. Explain about Json schema

2. What is Mock, integration testing

3. Currently doing?

4. What are the Java8 new features?

5. What are Git commands?

6. What are the differences between Set, Map and List?

7. What are the differences HashSet and TreeSet?

8. What is Memory Leaks?

9. What are the differences between Synchronized block and Synchronized method?

10. Tell me Rest API design?

11. How do you generate and manage those documents?

12. What is Validation (validator)?

13. What are spring Spring bean scopes?

14. Explain about JDBC Transactions?

15. What is AOP? What is Transaction Management?

16. What is Autowiring?

17. What are the differences between Unit Testing, functional testing and integration testing

18. What is Mockito?

19. Tell me About yourself?

20. Interaction in a team environment?

21. Explain about Agile

22. Keep yourself organized?

23. Most Proud of accomplishment?

24. Any Questions for us?

24.

**Ian Wang-USPTO-09/14/2017-eugene-mauro-se**

1. where are you located?

2. In which year you completed your schooling and degree?

3. when use core java in US?

4. when start use of Agile?

5. what methodology of Agile?

6. What are the differences between Spring and Struts?

7. IDE you use?

8. what is STS?

9. How about Hibernate?

10. What Application Server you use?

11. When you use JBOSS?

12. Which Oracle version you used?

13. how you force your design follow first normalization form?

using contains like not null, primary key (right answer)

14. what is second normal form -> foreign key

15. what is third normal form? no transient relationship/dependencies between column and primary

16. use foreign key?

17. Index on multiple column, problem

18. use index is faster than full table scan especially for data is large

19. tuning with exception plan

20. Did you use RestEasy?

21. How you Handle Asynchronized call => Ajax

22. MVC and RestEasy differences?

23. what is xml and parse xml?

24. how you use xml?

25. What is version control?

26. SVN stands for?

27. When use Junit and Mockito?

28. Explain about Maven?

**Stephanie-Paypal-09/12/2017-(4 Indian guys -> tech, Jon -> behavior)**

1. Explain about your previous project

2. What is the Traffic of project

3. What's the most time-consuming part in your project?

4. How to optimize if you are supposed to improve it?

5. JMS how to return actual response after giving a temporary response?

6. How to coordinate/integrate with team members -> Daily stand-up? Git? Deployment?

7. What is Testing? functional testing? JMeter, Mock...

8. Have you heard of PowerMock? Otherwise how would you mock private/static methods?

9. Explain about Template design pattern? Practical project example.

10. Why 3 layers (MVC)? Why not just controller if I only want to get data from database?

11. Explain about Springboot?

12. Design REST API: (URI)

promotions, parent and children promotions

For each promo, we have startDate, endDate

Want to create, update, read promotions,

For promos have parent, will also specify its parent

For specific parent, we can add new child promo to it

13. Coding part:

Given a string (separated by space), return all unique palindrome string.

"aba cdr ede trye ede ytr aba" -> (aba, ede)

What if input is NULL??????

Write test for it...

Spiral Matrix

What if input is NULL???????

Write test for it...

14. (Behavior):

What you usually do off work?

An accomplishment you're most proud of?

A biggest mistake you have and what you learned from it?

How to do time management?

In next 5 years, what's your plan?

Under 500 words, describe yourself? (Key points)

**Stephanie-Finra-09/12/2017-Scott, Indian woman, Indian man**

1. What's your qualification?

2. Rate yourself on Java?

3. Write a program to find Longest Palindrome in a String? Choose 5 testcases to test?

4. Rate yourself on Sql?

5. Find duplicate records in table

6. Write a program to swap a and b? (Java a = 4, b = 5 -> swap a, b without extra space)

7. Have a piece of cake(rectangle), one missing part(rectangle), how to evenly separate with only 1 cut

**Jason Wang-USPTO-Sep-Eugene**

1. Where are you located?

2. What is your qualification?

3. When you use Agile?

4. What is Scrum?

5. Do you work in pair?

6. When you use Spring framework?

7. Explain about your First project?

8. When you use the rest? Do you use JAX-RX?

9. What is RESTEasy? What is library?

10. When you started to use Maven?

11. When you started to use Hibernate?

12. When you started to use JSON?

13. When you started to use Mockito?

14. When you first use of JUnit?

15. Explain about JBoss application?

16. Explain about JBoss fuse? =>ESB

17. What is JBoss scalability and Clustering?

18. When you first use Oracle DB?

19. When you first use MySQL?

20. When you use version control? SVN and GIT

**Jason Wang-USPTO-09/08/2017-Interviewer**

1. what is spring? what are the benefits of Spring? why do we use Dependency Injection?

2. what is ORM?

3. What is 2 phase transactions and what is transaction management?

4. What are the differences between merge and save?

5. what if data already changed when flush happens?

6. What is biggest challenge in your project?

7. What is time management?

8. Explain about agile process?

**Stephanie Xiong – FINRA-09/07/2017-One Indian Guy**

1. why are you seeking a new position?

2. To east coast ok to relocate?

3. what do you mean of learning business logic?

4. do you know what position are you interviewing for?

5. Explain about agile?

6. How can you test the code? How can you do the code review?

7. what's your understanding of testing?

8. What is unit test, integration test and automatic test?

9. What is performance test?

10. What is JMeter?

11. why use Rest API?

12. Rate yourself in SQL? 1 - 10?

13. table a, table b

10 rows in a, 5 rows in b (already in table a)

how to get the non-matching records?

14. why use minus or join?

15. a scale with two dishes

8 base balls, only 1 is heavier

how to figure out the heaviest by 2 tries

16. what are the differences between abstract class and interface?

17. What is abstract class, abstract methods?

18. Tell me interfaces common behaviors.

19. Tell me the examples of concrete class?

20. In DAO layer what will you write? I mean which logic you write?

21. what do you mean by static?

22. Tell me examples of static class?

23. What are Utility classes?

**Chary, Stephanie-PayPal-09/06/2017-John**

1. Explain about Restful API?

2. Write Test cases for your project?

3. How many ways you can implement Singleton Class?

4. Explain about Template design pattern?

5. What are Java 8 features?

6. What are JavaEE components?

7. What are the differences between Hashset and Treeset?

8. What are the differences between Set, Array and Map?

9. What are the differences between Git fork and branch?

10. What is Mockito?

11. Explain about your current project?

12. Introduce yourself?

13. did you do production support?

14. what is the traffic of the project?

15. Explain about AOP?

16. What is restful performance tuning?

17. What is Testing?

18. What is Junit?

19. What did you use to mock objects?

20. What is power Mockito?

21. how to mock private methods?

22. what is lambda expression?

23. functional interfaces?

24. What is Callable? What is Runnable? are they functional interfaces? what are the differences?

25. Tell me your web services experience?

26. Should Restful service API have schema?

27. How to create an object in Http regarding Restful Services?

28. Explain about xml?

29. What are the differences between put and post?

30. Explain about functional interfaces?

31. what are the differences between consumer and supplier interfaces in java 8?

32. What is predicate?

33. list of objects -- person? how to get a list of names

34. what is stream?

35. What are the typical methods of Stream?

36. what is Optional?

37. what is your role in your team?

38. Tell me details of team members?

39. Explain about agile environment?

40. What is sprint?

41. what are you doing in your team?

42. did you do testing?

43. how to keep yourself updated?

44. crunch time? how to handle and deal with the problem? how to deliver? Give an example

**Michelle-Finra-09/06/2017-Interviewer Name**

1. What are the differences between REST and SOAP

2. What are the Spring MVC features?

3. what is Dependency Injection

4. What is the difference between Spring bean and regular java object, why we use Spring Bean?

5. Is Singleton thread safe?

6. With restController, how to solve mutli-thread problem?

7. Can we synchronize constructor? Why?

8. Explain about Functional interface?

9. What are the Java 8 features?

**Michelle Li-CDK-09/01/2017-Natarajan, Selvaraj**

1. Introduce Yourself?

2. what is your role in the project?

3. what is OOP?

4. What are the differences between Abstract class and Interface? Give me an example?

5. How to use interfaces in DAO layers?

6. what are the most frequent used functionalities of DAO (Design Pattern)?

7. Explain about Lambda expression and Streams class?

8. What are the examples of functional interfaces?

9. what is JMS? where did you use it? how does it handle emails? what is topic and queue? why use JMS?

10. How to create web services?

11. How to design an API to provide current date?

12. create a spring boot application

Sql database:(He asked some data base queries)

**Jhonny-Paychex**

**-08/29/2017-Manoj Rajgarhia**

1. Tell me about yourself?

2. Rate yourself in Database?

3. How you comfortable in Java?

4. What is Singleton class?

5. What is interface and explain about interface?

6. What is serialization?

7. What is deserialization? what is the difference between serialization and Deserialization?

8. Where did you use the polymorphism in your project?

9. What are the differences between interface and abstract class?

10. what is web application server?

11. Did you work with WebLogic?

12. Which IDE you used?

13. What is Agile? What is Scrum process?

14. Tell me Software development life cycle?

15. What is your team size?

16. Tell me few points about Hibernate

17. what are the core interfaces of hibernate?

18. What is Spring?

19. What is dependency injection. What are types of DI?

20. Explain about the database you used?

21. Tell me about Git?

22. Tell me about Weblogic12?

23. What are the Java8 Features?

24. Tell me your experience about Restful and SOAP Webservices?

**JayTarkkar-Credit Suisse-08/25/2017-OmKumar**

1. What is JVM Memory PermGen size?

2. What is Class Loader?

3. What is Encapsulation?

4. What is Garbage Collect?

5. Explain JavaEE project architecture and servers?

6. What is Request handler, what are the scopes of bean?

7. What Spring MVC, AOP, IOC?

8. What is exception handling?

9. What is memory leak and what is performance tuning?

**Johnny Hou-Pay Chex-08/21/2017-Brian, Greg**

1. Introduce yourself.

2. what is hibernate and hql. How you use?

3. How to do mapping in hibernate?

4. Do you use join in HQL?

5. How to do Oracle query performance tuning? =>index, join, execution plan, stored procedure

6. what is view and parameterized view?

7. How you use stored procedure in your project? give me an example

8. what is polymorphism association?

9. Tomcat and WebLogic when you use which, which one you prefer

10. do your familiar with micro services?

11. build new micro services, what infrastructure you would place, if you have unlimited budget? software and hardware stack you use?

12. You use maven, ANT? Do you use Gradle? How you use ANT?

13. Tell me about spring security? How to do it?

14. What is Queing system. Do you know other queuing? IBM MQ

15. How do you use JMS Queue? How you use it specifically?

16. For what you used IOC?

17. What is Agile?

18. Do you used Automatic deployment tool?

**Terrence Zhu-Equifax-08/18/17-Interviewer**

1. Explain your most recent project

2. Explain about tools used in the project

3. What is swagger

4. Tell me your experience with cloud, like AWS

5. How to design rest api

6. How many data sources and microservices do you use in your rest api

7. what is the scalability of your rest api? what is the Load balancer

8. How many rest api on your server(Doubt)

9. What is microservice

10. what are Java characteristics and design patterns

11. What is dependency injection

12. Algorithm: passing in a paragraph string, return unique word occurrence

**Terrence Zhu-AAMC-08/07/17 -Interviewer**

1. Introduce your previous project, your role, used techs, responsibilities

2. Tell me a Challenge or difficulty in your previous project

3. Design rest web service from scratch. No need to code, just the procedures, different layers/classes, important annotations like @RestController, @RequestMapping, etc

4. How to configure Spring, where to put all settings?

5. what are features you like about Spring

6. What annotations used in entity class

7. Features you don’t like about Hibernate.

8. What is the difference between function and object in JavaScript

9. What is your experience with JavaScript

10. Tell me some new features about JavaScript

11. Any Questions?

**Han Zheng/Will Chen-Apple-08/04/17-Interviewer**

1. Introduce yourself

2. What is String in Java

3. How to create your own immutable class

4. How do you clone complex object in Java?

5. How HashMap works in Java

6. What would hashCode method do

7. How to get all the occurrence of each char in a given String

8. How do you get non-repeated char in the string?

9. Write a program to reverse the String

10. Tell me your experience on NoSQL database

11. Tell me your experience on RESTful Services

12. How would you map object to JSON?

13. What is Unix Scripting

**Name- Finra-Date-interviewer**

1. Design the End to End structure of a given scenario.

2. Implement classes for a given scenario using design pattern. Please explain why we need to use it.(vending Machine)

3. write Sql queries (N th Highest salary).

4. Design a singleton class.

5. Design Factory pattern.

6. Explain the project with all tech stack (they are looking the data flow and various modules in the project).

7. What are differences between Hash map, concurrent hash map, synchronized Hashmap and Hash table

8. why we need to override equals () and hash code.

9. How we can change the scope of a plugin in maven.

10. what’s wrong in the below query.

11. select case where null=null

12. return true else false.

13. Answer-We cannot write = for null it should be is null or not null.

14. write Junit test cases.

15. Write test cases for a given scenario(Mockito)

16. Tell me your daily responsibilities and duties as a developer in last project.

17. how did you consume rest services in last project?

18. What are the Spring bean scopes --?

19. Write a program to sort array of strings.

20. Write palindrome program (he wants very optimized code with all exceptions)

21. Design End to End structure for a TO DO application.

22. Design Hash Map.

23. Explain about Agile methodology.

24. Any idea on AWS?

25. what are the Java 8 features?

26. Display maximum returning element in an array (they want optimized code--I used Hash map)

**Name-Finra-Date-interviewer**

1. Explain about your Last project, technologies you used, day to day responsibilities, functionalities that you have developed?

2. Tell me your experience with shell scripting and AWS? Application on cloud?

3. which Collection you have used in Java?

4. what are differences between Fail fast and Fail safe?

5. what are the differences between vector and Arraylist?

6. What is synchronization?

7. Name some synchronized collections?

8. what are the differences between Concurrent HashMap, HashMap and Hash Table?

9. what are the differences between HashSet and HashMap?

10. what is Key in HashMap? Int or Integer?

11. Implement equals and hashcode ()? Why it is? Give me an example

12. What happen if the key in hashmap is mutable?

13. How to make object immutable?

14. When to use interface over inheritance? Why use, what is the advantage of using interface? (what is loose couple?)

15. What happens to the class that implement interface? (sub-exception and implement)

16. Why we need abstract class when we have interface?

17. what are access modifier? what are the differences between protect and default?

18. what are the differences between checked and unchecked exception?

19. what is Design pattern?

20. Why we need dependency injection? What are the Benefits?

21. what are the ways to autowire a bean?

22. Which one is better for unit test?

23. what are the Bean scopes?

24. Diff between singleton and prototype?

25. Have you used XML based configuration or Annotation?

26. Annotation used in each layer? Like @Service @Repository @Controller, what does these annotations give you?

27. what are the other features in Spring you have used? AOP - transaction management, logging function

28. Have you used JPA or Hibernate?

29. Have you used Spring JPA? DATA?

30. tell me the benefit of spring boot?

31. what is Artifact of Spring boot? Jar file.

32. Explain Maven plugin commands you used like Mvn install, mvn clean.

33. Can we override by command line? mvn springboot: run - server

34. which Testing framework you used?

35. Mockito, annotation used to inject mock? (Doubt)

36. What is Junit, what is @BeforeClass in Juint?

37. Tell me your experience with rest api? Use spring mvc

38. How to test rest api?

39. Automation to test api?

40. What is Rest Somewhat is Assert J?

41. What is the meaning of Http :200? Http: 400? Http: 500?

42. How authentication and authorization handled?

43. Explain about tools you used to developing? Eclipse, notepad, sql developer...IntelliJ, Jira, Git…XML tool?

**Name-Finra-Date-interviewer**

1. Explain about your Recent project

2. What is Collection fail fast and fail safe

3. what is the difference between ConcurrentHashMap/ Hashtable/sychronizedhashmap/Hashmap

4. Find duplicate in collections?

5. what do you mean by Immutable in terms of String class, how can you create your own immutable class?

6. what are the differences between abstract class and interface?

7. What is Default method in Java 8 in interface

8. Tell me the method syntax in interface & in abstract class

9. explain Throw exception in interface(Doubt)

10. what are the Interface access modifier?

11. What are the Spring boot features?

12. what are the Spring modules and features? Like MVC

13. what are the Different ways of auto wiring and what is Dependency Injection?

14. Explain about Web Service

15. Tell me the result of HTTP codes: 200,400,500

16. what is Database type connection?

17. What is your team size?

18. Explain about Mockito Junit, automation with selenium?

19. Do you have any experience with Linux, UNIX?

**Name-Diagnostics-Date-interviewer**

1. Introduce yourself?

2. what is the good quality for a good IT person

3. Tell me workflow of building a Spring Boot project

4. how to use maven to add a lib that is only for testing

5. how to use Message Driven Bean to handle JMS

6. what is the main method within MDB

7. what are the differences between Hashmap and Hashtable

8. find second highest salary in Employee table

9. What is hot deploy?

10. What folder is used to hot deploy in JBOSS?

11. what is the difference between war and jar

12. How do you describe restful web services?

13. in Junit, how would you test MDB module?

14. find out employee who are also manager (self-join)

15. how do you create a Thread?

16. what are the Thread states on high level?

17. what is finalize method

18. what are the differences between enumeration and iterator

19. do you think enumeration can handle remove elements?

20. can you override a static method?

21. can you declare main method as final?

22. what are Generic methods?

**Name-Apple-Date-Sunil, Paritosh**

1. How to setup orm, hibernate?

2. what is Approach? Bottom up, top down?

3. what are the Details of creating the mapping? Annotation to do mapping

4. what is Stage of entity?

5. Explain One to many mapping? How to do?

6. what is Rest api? How is implemented? Spring based, spring mvc

7. How to handle scalability? How to handle large input? Transaction isolation level?

**Coding:**

1. Valid Parentheses

2. Reverse non-special characters in a string

**Name-Finra-Date- interviewer**

1. what are Spring pros and cons

2. what are the differences between Setter and constructor injection and when to use each

3. Coding question:

4. write a program to reverse words in a string

5. Migrate the data source from oracle to PostgreSQL, how to test the application still works

6. Big log file, want to keep track how many times each website is visited. What kind of data structure to use? HashMap. What if the log file is really big, how to handle it?

7. what is Java garbage collection?

8. Do you know any Cloud technologies?

9. Can we ignore the unit test? Why?

10. what is Integration test and unit test, which one is harder?

11. How to do system test?

12. X = a

Y = b

i. Without third parameter, how to swap these two

13. Which team do you interested in?

14. what is your Current visa status?

**Name-Maximum-Date-interviewer**

1. Design a file system using class diagram.

2. Requirements:

a) It has folders and files.

b) Folders and files have some permissions. (Read, Write, Group access, etc.)

3. Table design:

4. Employees and Departments (many to many)

5. SQL tuning for Oracle

6. How do you use cursors?

7. How do you use triggers?

8. How to fire ajax call in JSF.

9. Differences between JSF beans and Spring beans?

10. How do you use Maven?

11. How do you fix bugs?

12. How do you do production support?

13. Talk about your team’s structure?

14. Do you have experience in collaborating with other teams?

**Name-Apple-Date-interviewer**

1. What is Thread Safety

2. what is Race condition

3. what is Thread safety solution?

4. what is the difference between synchronized and volatile

5. do you know any design patterns?

6. what is the difference between builder and factory patterns

7. what are the advantages of Factory design pattern?

8. Explain about Template pattern

9. How java garbage collection works?

10. Tell me JVM Generations

11. Why GC used generations?

12. Do you know Spring?

13. what is Dependency injection in spring?

14. do you have Any NoSQL experience?

15. what are the differences MongoDB/NoSQL and Relational DB?

16. what are the feature of MongoDB?

17. What is Denormalization?

18. Sharding? (Doubt)

**Michael Zhou -Paychex -Date-interviewer**

1. Explain about your recent project?

2. what are the disadvantages of Hibernate?

3. what is performance Issue solution?

4. What is the trigger? How to use?

5. What is WebLogic and what are the uses?

6. What are the automation tools you used?

7. Which development IDE you prefer?

8. What do you know about SQL query design?

9. what are Java 8 features?

10. How to deal with your mistake in your project?

11. How did you do test-driven development (TDD)?

12. How you learn a new technology?

13. Why you are leaving your last project?

14. do you have ASP.NET experience?

**Name-Apple-Date-interviewer**

1. Tell me java 8 features?

2. what is completable future, whether use thread pool?

3. when to use LinkedList and when to use ArrayList

4. What will happen if we put duplicate elements into HashSet? Why override hashcode, equals? if we override only hashcode what will happen?

**Coding:**

Write Query: Design the schema for Jira (Epic, Story, Task)

Epic

id, name, created By

Story

id, description, epic\_id, assignee, assigner, parent\_Id (-1)

Task

id, story\_id, description

Story A is a parent of B, C is a child of B

A parent (5) -> B child (4) -> C child (5)

Z (5)

**output**: Parent Story, all tasks count under parent, story\_name, desc

A (14)

Z (5)

LinkedList -> Detect a loop in a linked list

5. what is tuning query

6. Explain about your Spring and spring Boot experience?

7. Tell me your previous experience

**Name-AAMC-Date-interviewer**

1. Design a restful API for user registration

2. For the user registration service, will you use multi-layer structure? What layer would you design?

3. Explain how you design each layer in MVC architecture?

4. How to handle transactions in Spring?

1. 5.explain the transaction propagation?

5. what are the differences between JPA and Hibernate?

6. How to map a table with composite key?

7. How to retrieve data from a legacy table, which does not have primary key. (cannot change the schema or anything)

8. what are the differences between Jboss and Tomcat?

9. Explain the Migration process from IBM WebSphere to Tomcat?

**Name-Zar Architecture-Date-Muhammed, Ishad**

1. 1.if you submit a parameter, how spring mvc works?

2. what is @Transactional?

3. how do you implement hibernate?

4. why do you use second level cache?

5. 5.employee-department many-to-many

6. write query to select employee number for each department

7. select departments with more than 5 employees

8. a user sends a request, but does not get the expected response

9. how to debug

**Muhammed Developer**

1. write a program to reverse of a string

2. write a program to reverse string without duplicates

3. what are the differences between List and Set?

4. in the algorithm you write, where may happen stack over flow(Doubt)

5. when is jsp compiled?

6. What are the differences between Servlet and Jsp?

7. Tell me about your JMeter experience?

8. how do you study new technology?

**Irshad Director**

1. Tell me about your AWS experience?

2. Tell me your team size, Agile in your last project

3. any questions

**Name-Folio-Date-interviewer**

**Round 1:**

1. Tell me about your experience and projects?

2. Questions about Bamboo. How to use it. (Doubt)

3. explain about Singleton and Factory Design patterns?

4. What are difference between @Controller and @RestController

5. How to handle lazy load references in the front end (hibernate). What would be your approach if the user tries to view the objects for the first time which would be lazy loaded

6. How would you handle duplicate POST requests of the same form?

7. What are the differences b/w ArrayList and LinkedList?

8. In-depth questions on Git (about different kinds of branches) (Doubt)

9. what are the Bean scopes and how to do injections?

10. JMS template and why did you use it and why would you use it.

11. what are scopes and life-time of variables?

**Round 2** - more like a discussion rather than them asking questions

Programming question and asked about my approach in the real world (commenting, approaches, simplicity vs complexity etc.) (Doubt)

Discussion about TDD. How my approach and my opinion(Doubt)

how can you implement Singleton class and tell me Singleton’s limitations in the multi-threading environment?

**Round 3** - he asked me to keep speaking on the below topics

1. Tell me advantages and disadvantages of spring and hibernate?

2. Explain about SOA?

3. what is Map Reduce

**Ada Wan-Finra-Date-Interviewer**

1. Talk about your previous experience

2. Coding part: just talk about the idea

i. A linkedlist, find the middle node

ii. Two int arrays, find the minimum difference between numbers from these two arrays. Eg. [1,2,3,5] [2,9,6,3]

iii. Two Strings, how many times the first string appears in the second string?

iv. Best Time to Buy and Sell Stock - leetcode 121

v. Coin Change - leetcode 322

3. what are the differences between Git merge and Git rebase

4. How do you feel about the scrum experience in your last project? Good thing? Bad thing?

5. What will you consider when do refactoring?

6. How many people are there in your team?

7. Which java version do you use, what are the new features? This team uses Java 8.

8. do you have Testing experience?

9. Have you ever overridden hashcode () and equals ()?

10. Which Hibernate version does you last project use?

**Section 2**: 3 people. Tester, Hiring manager, Developer

Coding: int [] arr = [2,3,4,5,1,6]

put even on the left, odd to the right. No need to sort. (Ask if you have seen this question before)

Person entity has an attribute is an Address entity, is lazy loading. Call service method to get Person in the controller, then get this person's address in another service method. Any problem?

In a service method A, call another method B, B is annotated with @Transactional, A is not. Will this transaction start?

Controller method is annotated with @Transactional, call a service method. The service method is also annotated with @Transactional. Will both transaction start?

1. How do you do unit test? Why use mockito?

2. public class A {

Service b;

DAO c;

methodA (){

b. method ()

c.method ()

}

}

3. How to test methodA using mockito?

4. Why this position?

5. Prefer backend or frontend? Don't like frontend?

6. Any experience with automation testing?

7. How many unit tests have you wrote?

8. Have you used solr?

9. Do you know what does finra do?

10. How about the team? How about the interview? Too hard?

11. Any question?

**Jarret-Maximus-Date-interviewer**

1. Introduce your background

2. Have you done production support?

3. Any issues you have faced in your project recently?

4. You have used REST API, how you deal with security issue?

5. Do you have exp in host system?

6. Have you faced multi thread issue? How you deal with it?

7. Table1 Employee

Table 2 Paychex

How you define the tables?

**write queries:**

1. How many employee get paychecks in specific month?

2. How many employee did not get paychecks in specific month?

3. How many employee get two paychecks in specific month?

**Ethan Xia-Finra-Date-Kyle, Scott Miller**

1. What do you wanna do? (It's really just an open question, can talk about career path, give intro to yourself, future plan, and relate back to the JD.... Expect to talk a lot for this questions)

2. Tell me your Visa status … What kind of contract do you have with Antra ..

3. What kind of technology have you used to ensure that you write good code?

4. What kind of testing technology have you used?

5. do you have Testing experience in the past?

SQL

6. Emp table has id

7. Manager table has id

8. Find emp id that's not a manager

9. What kind of join do you know

**Java**

1. Classic parenthesis/bracket matching(Doubt)

2. Solution: use stack

3. tell me about experience and your projects?

4. Tell me about triggers in PL/SQL

5. mutating trigger error in oracle(Doubt)

6. Explain about your Experience with scripting like Python and Unix shell

**Chaitanya-Client-Date-Qing Feng He**

1. what is Immutable

2. Explain about List, Hashmap, set and stack

3. What are SQL fk advantage

4. what is Spring IOC and DI

5. Explain about Spring transaction management

6. what is Transaction propagation level?

7. Expalin about REST

8. what are the Response status codes of http?

**Alex-Finra-Date-Interviewer**

1. what have you accomplished in the last year?

2. how do you create REST web services in Spring?

3. write test cases?

4. Why do you do boundary tests?

------------------------------------------------

5. write a function that accepts an array and prints numbers and occurrences

6. write different test cases

-------------------------------------------------

7. What are your weaknesses

8. Why do you want to work for Finra?

9. Write a union all sql statement

10. Write a function to generate unique ssn

11. How would you test it?

--------------------------------------------------

12. Write a function to print out this pattern

1

22

333

4444

333

22

1

13. write test cases

14. modify the function to accept 2 parameters and print multiples

function(i,j)

22

4444

666666

4444

22

15. Write an xpath to find 2nd Table and 3rd Row

16. What is a selenium project made of?

17. Do you prefer chromeDriver or Firefox driver while using selenium

18. why?

19. Have you ever encountered a problem with xpath?

20. what and how did you solve it?

21. write a selenium test case for login page

22. Since every test starts with login how do you bypass login while performing selenium tests

23. Design a mock object to bypass login with user details

----------------------------------------------------------------------------------------

24. Why do you want to join in finra?

25. Write an sql to display student grade and count

26. write the sql query to update the student table based on that select statement

27. Do you know any pl/sql?

28. How would you rate yourself in sql?

**Mona-Finra-Date-Interviewer**

**1 st hour of Interview with Project Manager, Product Owner, Team Lead**

1. Introduce yourself

2. explain About last project Business specifications. They were not particular about technologies used.

1. 3.what's your Opinion about Testing

2. How testing is used in your experience

3. Did you anytime do automation testing – scenario where I used

4. How do you do testing for large data sets specially for BigData

5. How to increase database performance

6. How do you overcome your mistakes?

7. Have you ever created Indexes in your database?

8. Do you know PL/SQL and what kind of databases you have used?

9. How to manage test data

10. Explain about agile methodology – scrum meetings, scrum master, sprint length etc.

**2 nd hour of interview with two mid-level associates**

1. Introduce yourself

2. 2.what are the Testing techniques you used in your project

3. what is Performance testing

4. Explain about ORM framework and Spring AOP

5. How did I use REST and SOAP in my previous project?

a. Coding: Asked about sorting – merge and quick sort, compare and contrast them.

- Given million or billion length of array with only 0 to 9 elements present in it, how do

- you sort them – Coding. After coding it they asked me to write test cases. I wrote one

- test case and explained other test cases.

6. They explained about their project

**3 rd hour of interview with my phone interviewer and the project head**

1. Explained the difficulties they are facing in their projects.

2. He didn’t leave until he asked all his questions

3. Tell me about visa, experience and educational details.

**Owen-Finra-06/06/17-Irshad Khan**

1. what are the differences between fail fast and fail safe

2. what are the differences between abstract class and interface

3. what are the differences between overloading and override

4. What are collections

5. what is an iterator

1. 6.what are the differences between hashmap and arraylist

6. Explain about rest service

7. Explain about json

8. what is json accessor? what is json something, what is forgot

9. what are the differnces between post and put

10. what re the differences between sql delete vs truncate

11. write sql to return # of duplicated value in a table

12. what are the differences between where and having

13. what is recursive in java

14. write a program reverse a string using recursion

15. what is ODBC

16. do you have any questions?

**Alexander-Client-Date-interviewer**

1. Tell me about your last two projects and where you are currently located

2. Why do you want to become an SDET developer which is different from normal development?

3. Did you do any other testing other than unit tests

4. Any chance for Visa sponsorship

5. How close are you to getting a green card, they are looking for full time employees?

6. Have you worked on stored procedures?

7. What DB's have you used

8. Have you used Mockito or selenium

9. How did you test REST web services?

10. write the pseudocode for below and design test cases

11. what scenarios will you test for

12. Rotate an array of n elements to the right by k steps. For example, with n= 7 and k = 3, the array [1,2,3,4,5,6,7]

is rotated to [5,6,7,1,2,3,4].

13. Write a query to to get the list of users who took the training lesson more than once in the same day, grouped by user and training lesson, each ordered from the most recent lesson date to oldest date.

14.how do you rate your java skills?

15.have you used selenium?

16.how do you find a html element in selenium and how can you supply an input?

**Fran Fan-Paychex-Date-interviewer**

1. What are modifiers?

2. what is final? finally and finalize?

3. in your last project how to solve concurrency issue?

4. explain last project, how many tables?

5. Tell me your experience with hibernate?

6. in which design patterns you are familiar?

7. how to achieve singleton without double locking?

8. What is String immutable?

9. How many kinds of joins are there?

10. What is a trigger?

11. what is eclipse debugger mode?

12. what are the new features in java 8

**Name-Apple -Date-Interviewer**

Given three tables, order, customer, sales, get the sales who didn't sell things to customer named 'Andrea', get sales didn't sell anything, get sales who sells more than $4000

Student Course - two tables one is interest table with student\_id and course, another enrollment table same column

Get courses need to be added and removed in order to make the enrollment table the same with interest table

select a. student\_id, COALESCE(x,0) as 'Course Removed', COALESCE(y,0) as 'Course Added' from (

select student\_id, count(course) as x from course\_enrollment e where (e. student, e.course) not in (select student\_id, course from Course\_Interest where student\_id = e. student\_id) group by student\_id) a

left join

(select student\_id, count(course) as y from Course Interest i where (b. student\_id, i. Course) not in (select student\_id, course from course\_enrollment where student\_id = i. student\_id) group by student\_id) b on a. student\_id = b. student\_id;

**Shane Ebersole-FINRA-Date-interviewer**

1. Current role (responsibilities) / next opportunity

2. What is Selenium Driver? Java

3. How heavy is javascript in the project

4. Any exposure to AngularJs?

5. Next project? New technologies there …(Doubt)

6. Explain JUnit - Integration / Unit test

**Coding: Fizz Buzz**

1. Develop Unit test cases for signature: List<String> fizzBuzz (int start, int end, int fizzDivider, int BuzzDivider)

a. Design Question: Deck of Cards

b. Card has suit

c. Deck of cards

2. How to store cards: LinkedList and Queue

3. More About how to do Selenium automation?

4. Use Firefox plugin to record the automation test — NOT GOOD.

5. Assertion: check div if is shown? How to check button is working?

6. Maintain? Hard to maintain: every time you need to record again. not dynamic

7. How to do it better? Reuse the login part. Put it into separate test case, and bypass login page: cookie to cache session id and set it http request

8. What if there is a form and may be changed over time? Utility method

**Name-CarFirst-Date-Richard, Jeff and John Backer**

**Technical Interviewer: Richard and another developer**

**Non-technical interviewer: Jeff and John Backer (Manager)**

1. Introduce yourself

2. How is transaction managed in your application?

3. What is the difference between Set and List?

4. Difference between rest and soap?

5. security aspects in webservices.

6. How do you control who can access what?

7. Have you use maven? Why is maven is used? What is the difference between ant and maven?

8. what are the steps before you commit a code.

9. Do you know about tools like Jenkins?

10. why do you use stored procedure? What do you think of it?

11. what are the differences between jQuery and JSP…?

12. what are the differences between JSP and Servlet?

13. what are JSP tags?

14. JSP translated to servlet, what do you see in Servlet?

15. Why do you use spring boot? What are the downside of using it?

16. have you done multi-threading? How do you create thread?

**Name-Apex Test Finra-Date-interviewer**

1. What is Unit Test.

2. What is Chain of method

3. how to test contoller,

4. how to test service. Dao.

5. how to test method which returns void.

6. how to test database error.

7. Mockito given-when-then. (Doubt)

8. Test double http://www.methodsandtools.com/tools/mockito.php

9. what is Immutable class

10. what is hibernate transaction management.

11. what are the differences b/w comparator, comparable?

12. write Code to sort a list of int, put odd infront, even at the end.

13. what is the use of generics?

**Linda Lin-Client-Date-interviewer**

maybe faster it depends on the CPU, parallel stream starts multiple thread == to the processors number. (Doubt)

thread number == process number;(Doubt)

sanJosePerson.parallelStream(). filter(e->dcSet.contains(e)). collect (Collectors.toList());

Collection<Person> dcPerson;

Collection<Person> sanJosePerosn;

so, we have to find out the common person in both collections?

1. put all D.C person into a hashSet, we can have a DcSet<Person> in this person we have only fn, ln. (Doubt)

in this case, we have O(N) time complexity.

**Kedar-Apple -15/05/2017-Interviewer**

1. self-introduction

2. Explain about web services

3. Explain about mongoDB architecture?

4. explain design patterns you used

5. what are java 8, features

**coding:**

6. two sums, hashmap, worst case time complexity(Doubt)

7. Write a program to reverse words of string (“Welcome to apple” -> “emeocleW to elppa”)

8. in your previous project, how can you deal with multithread problem

9. what kind of hibernate, if use JPA(Doubt)

10. what are spring bean scopes?

**Grace-Paychex-Date-interviewer**

1. why you want to change the job

2. what is your recent job duty

3. did u design anything or just use existing tech stack

4. Explain the design patterns used

5. what is persistence state

6. Explain about ORM, and TransactionManagementTX

7. Explain the life cycle of spring bean

8. what are the Scopes of spring bean

9. what is thread safe

10. what is thread local

11. 11.Explain about Webservices

12. 12.what is proxy

13. Explain about SOAP XML SCHEMA

14. Explain about Spring boot

15. how to fix issue in production

16. read code. (Doubt)

17. Tell me about your core java experience?

18. Write school-student join SQL

19. what are the differences between ArrayList and Linkedlist

20. how do you do build and deployment

21. tell me about hashmap.

22. why maven

23. how do you finish your story?

24. what are the differences between Unit test and integration test

25. what is ThreadLocal class

26. read another code(Doubt)

**Tariq-Apple-Date-interviewer**

1. Introduce yourself

2. Tell me your Spring Boot experience

3. what is the difference b/w Spring Boot vs Spring?

4. what is Spring Boot Autoconfiguration?

5. We are designing micro component micro component can have interdependency between each other. How SpringBoot solve interdependency?

6. What is @Conditional?

7. What is your experience using SpringBoot?

8. Tell me your Java8 experience

9. What is Stream? What can we do with Stream? In your project, give an example in which you used Stream.

10. What is Supplier? What is Consumer?

11. What is Lambda expressions?

12. What is Functional Interface?

13. What is Optionals? Optionals vs traditional null check?

14. Can you give an example of Optionals? If we have product reference, and want to see product.id/product.name. But we are not sure the product is null or not, how Optional help this?

15. What is Future? What is CompletableFuture? Future vs CompletableFuture? What is the advantage of CompletableFuture?

16. How to create an instance of Future? How to create an instance of CompletableFuture?

17. Methods of CompletableFuture, e.g. supply sync ()

18. Give an example, how you use CompletableFuture to increase the performance? He gave me an example, asked how to implement.

19. How do we specify a thread pool?

20. If you don’t specify any thread pool, what is the default mechanism in Java8?

21. Any other JVM language?

22. Can you give an example in your career which is challenging algorithm problem?

23. NoSQL/MongoDB experience?

24. What is the feature of MongoDB? What are the differences between MongoDB and relational DB?

25. Since you mentioned Scalability of MongoDB, why MongoDB is scalable?

**Design Patterns**

26. Explain about your favorite design pattern?

27. Do you know Observer Patter?

28. Then he gave me an example, asked how to implement Observer Pattern based on that condition.

29. Explain about Singleton Designpattern?

30. What are spring bean scopes? Is Singleton thread safe?

31. Explain about SVN, GIT

32. Because they use Git.

33. Do you have any questions for me?

34. Are you familiar with Bay area?

35. How soon can you start?

36. He told me what his team is doing, and what technologies they use, ask if you are interested.

**Eason-NWEA-Date-interviewer**

1. Tell me your experience about Java, database and AWS

2. What is a well-designed object-oriented class?

3. What is polymorphism

4. what is method overriding, what is an interface?

5. what are the differences b/w Abstract class and Interface?

6. what are the differences b/w Checked exceptions and Unchecked exceptions?

7. tell me about Unit testing

8. How to perform unit test for serviec inside one function call?

9. what are the advantages of NoSQL and MongoDB over sql

10. What is Normailization?

11. tell me your AWS experience in your project?

12. do you attend any corporate trainings?

**Tracy-Apple-Date-interviewer**

1. Introduce yourself, last project

2. In your last project, do you have any other layers other than service layer?

3. Have you used Java 8?

**Coding exercise:**

1. longest palindrome (String input), return longest palindrome (String)

2. Use Java 8 Stream to generate a map using GroupBy…

3. Interface name? What is e -> e… lambda

4. Compare parallelStream and stream, when to use which? Advantage / Disadvantage

**Core Java:**

1. How HashMap works?

2. Why we need to override hashCode and equals together?

3. What will happen if we put duplicate elements into HashSet?

4. What else needed for HashSet other than hashCode and equals.

**Spring Boot:**

5. Have you used Spring Boot?

6. Do you know any specific features of spring boot?

7. What are the advantages of SpringBoot?

**Hibernate:**

8. Did you face any issue when you are using Hibernate?

9. Write a SQL Query. (Simple Inner Join)

10. How to Improve query performance (without knowing the issue):

11. execution plan / Optimizer

12. Problem of indexing?

13. Explain about Criteria query / Native query and write syntaxes

14. Write a program to Implement REST Endpoint CRUD operations (ADD / UPDATE / PUT / DELETE)

15. Are you familiar with: MongoDB / Production environment - UNIX, LINUX / Development - Mac? Windows (Putty / winSCP)?

**Jason Qu-vibrant health-Date-interviewer**

1. why loose coupling, what if not?

2. how to test (in detail)?

3. how to use mocktito, how can you make sure the dependency is injected or mocked?

4. how to do integration test?

5. design REST (in detail)

6. what is garbage collection (in detail)?

7. Explain about generics?

8. rate your spring, hibernate, sql

9. what you don't like in hibernate

10. coding: determine a num is prime or not

11. coding: matrix with 0 and 1, find the largest area of the rectangle formed by 1

12. brain teaser: find one ball with different weight in 12 balls

13. how do you like java 7(new features)

**Benjamin-HP-4/21/2017-Interviwer**

1. what happens on this @Autowired annotation?

2. what is optimistic locking?

3. in a optimistic locking scheme, if one transaction fails to commit due to the other transaction, what does the user (of transaction 2) sees?

4. tell me a couple use cases regarding multi-threading?

5. what is model view? (he meant ModelAndView)

6. under the ORM theme, if you want to have an extra property on your pojo but no corresponding column on the table, what to do?

7. write a simple HQL/JPQL statement

8. write a simple Comparator

9. which part of sterling do you live?

**Jarret-Apple-Date-interviewer**

1. what is stringpool in java 6, java7 and java8 versions

2. what is string intern ()

3. how many generation: old/ young /permanent generations

4. what is @autowire

5. what is constructor injection

6. Sping mvc too long to response how do you debug

7. what’s spring layer

8. what is hashmap, what’s different in java 8 for hashmap

9. what is spring boot

10. How do you debug when met spring loading issue (actuator)?

11. how do you debug when database take too long time, what tool do?

12. you do with it (explain plan)

13. how do you get sql from hibernate?

endpoint design CRUD for employee

code

unique anagram

give array of string “abc, cba, acb, cd12, 12dc”

return abc cd12

similar as leetcode 45 group anagram

Given an array of strings, group anagrams together.

For example, given: ["eat", "tea", "tan", "ate", "nat", "bat"],

Return:

[ ["ate", "eat”, “tea"], ["Nat”, “tan"], ["bat"] ]

**Emma-Apple -Date-interviewer**

1. Explain about Restful web service, how many layers are there in the architecture?

2. Difference of HashMap in Java 6 and Java 8, how are the key stored?

3. Tell me the Core features of Java 8

4. Do you know Spring Boot?

5. When start loading an application, how to debug?

6. What is the actuator?

7. How to debug an issue on server side? How to analyze the log on server side?

8. Follow up: If time out happened on the database, what tools will you use to measure the time in each part?

9. How to do tuning query?

10. Which environment you used to work in? Unix or Linux?

11. How to search text field for a given Typehead in Oracle SQL?

12. Follow up: If there are millions of records, what should you do?

**ORM:** What is the downside of Hibernate? And solution?

**Follow up:** Solutions to do multiple search in Hibernate? Other way rather than HQL?

**Algorithm:** Longest Palindrome Substring

**Design:** Make Restful endpoint design for Create/Update/Delete/Find

**SQL:** Given two tables, find the emp with second hightest salary.

Table1: emp -> empid, name, org

Table2: salary -> empid, salary

1. BQ: What is the challenge in you experience?

2. What if you have extra time but you colleagues didn't finish the tasks?

**Don Tang-Finra-04/19/2017-Interviewer**

1. What is inheritence/composition

2. when do you use inheritance/composition?

3. if you need to write a FinraString class, how to implement it

4. What is pass by reference/pass by value

5. When did you used multithreading in last project?

6. If given a collection of 100 strings, write on the board to implement a multithreading environment to process these strings concurrently

7. which Java version you used/tell me new features in Java 8

8. How do you define good/clean code?

9. what Design patterns you used/when you want to use singleton/what are the benefits of Singleton/Java native support for Singleton? (enum singleton)

10. what computer science principles do you know

11. what are the benefits from Spring framework

12. What are spring bean scopes?

13. if a singleton class contains protype beans, what will happen

14. if a singleton bean contains session scope bean that contains user information, and clients encounter problems, how to debug

15. go through what will happen when you click submit button for a form, draw the flow chart on the board

16. how hibernate works

17. how transaction works/why it’s important

18. what are isolation levels/which one is used in which scenario/what are ACID properties/what is locking in hibernate (optimistic/pessimistic)

19. How you approach unit test/give a scenario

20. how do you use mokito/give a scenario/how to verify if the method is being executed?

given department and employee table, write queries to get employee count for each department

switch to many to many relationship, write queries to get employee count for each department

coding: 1 to 100, replace the number that is divisible by 3 with foo, 5 with bar, 3&5 with foobar. Write unit test

**Anna Zhang-Finra-Date-interviewer**

1. Given a list of integers, move the odd to left, even to right, also, each part of the numbers should be in ascending order.

**EXAMPLE:** [-7,3,4,5,2,6] -> [-7, 3, 5, 2, 4, 6]

input: List<Integer> list

Expected answer: Collections. Sort (list, new Comparator<> (){

// override compare method

// I didn't finish the code...

})

**Interviewer:** developer, 2 years experience, working on machine learning part.

1. Coding: int [] arr = [2,3,4,5,1,6]

put even on the left, odd to the right. No need to sort.

second problem:

Long story short:

public class A {

String header;

public void setHeader (String header) {

this. header = header;

}

}

public class B extends A {

String header = "aaa";

public B () {

// How to set header here?

}

}

expected answer: this. setHeader(header);

But he actually tells the problem in another way:

We have a class which is a rest template, it has a method: setHeader (). Because of some reason, we need to get the header info from cookie and set it, but blabla, we do not want to set the header directly using the template. We need to set it inside the constructor of another class, which is a Httpxxxxxx class.

**Interviewer:** Two man, one is a little bit old. He has a laptop with my code downloaded. He was using intelliJ

He gave me the mouse, asked me to explain my code. Starting from the test part.

2. Why use mockmvc?

3. Why use multipartfile?

4. Why use autowired?

5. Difference between bean and object.

6. if one of controller method thread safe, when different threads access the same method, trying to upload the same file to the same place.

**Interviewer: Xie, a Chinese man.**

1. Coding: Find the second last element from a linked list.

2. Explain about OOPS concepts?

3. What is interface?

4. What is Static method and static field and where do they locate?

5. What are the different beanscopes in spring?

6. What is default bean scope in spring?

7. Explain singleton bean scope?

8. Is singleton threadsafe?

9. can none static method access static fields?

behavior:

10. Tell me about your last project? What was your role? What techs you used?

11. How many people in the team?

12. Why you change your job?

13. Where do you live right now?

**REX-Client Name-Date-Interviewer**

**Round 1:** find second largest in array

Hashcode Inttuple, ask many many questions if key change, set to..., what will you get, i don’t know what she expects, i already told her hashmap keys should be immutable

3) given list<Integer>: -7, 3, 0, 4, 2, sort into 3, -7, 4, 2, 0

Odd on left, even on right, both in descending order

**Round 2&3: two people coming together**

1. hiring manager: after writing a hashmap, <key = element, value = occurrence>， he said good enough

2. go through coding project...

3. linkedlist find cycle

**Round 4: coding**

1. two sums find all pairs, return list of pair

2. another coding i could not remember now, but it's easy

3. spring ioc.

**Round 5: lead, coding**

1. java basic: static, final, finally, immutable

2. 2nd node from end of linkedlist

3. design a Range Class, like: [1, 3], [2,4],.. and implement intersect range and union range function

**REX-Finra-Date-interviewer**

**1st Round White Female Java Developer**

1. why we need to override equals and hashcode in java

2. if there is a possible algorithm without any hash collision? -- impossible

3. find second largest number in an int array easier version of leetcode two sum: return Boolean if there is a solution in the arr

**2nd Round White Male Java Developer**

1. what are all bean scopes and differences of all bean scopes?

2. how do you use spring and hibernate in your work?

3. what is difference between autowired and bean annotations...

4. how hibernate actually works

5. singleton design pattern implementation

6. Convert a decimal number only with 1 and 0 on its digit (pretend it as a binary number) and calculate the value (BinaryToDecimal)Using iterative and recursive

7. Write test case for this one

8. Integer Scope, why its max value is 2^31-1

**3rd Round White Male, seems like lead**

9. work through the assessment (File Uploader)

10. bean scope

11. Can any annotation be removed?

12. String to html: "... \*\*abc\*\* ..." ==> "... <strong>abc</strong> ..."

**4th Round Chinese guy Xie, on phone**

1. Tell me about your Agile experience

2. What is heap and stack memory

3. how do you use multithreading in your project?

4. Explain about java keywords static final ...

5. why java is an oop language

6. difference between java and another language you know

7. why you are changing job?

**5th round white man like director or manager**

1. introduce the finra situation

2. Tell me about your strength and weakness

3. when can you come to work?

**Satya-Maximus-Date-Interviewer**

1. Can you introduce yourself

2. Explain about your last project

3. What is Union

4. What foreign key

5. What normalization

6. What is an interface

7. What is IOC and Dependency Injection

**Name-Maximus-Date-Naga**

1. Explain about Spring mvc work flow.

2. Store procedure vs function

3. Explain about factory design pattern and singleton design pattern.

4. what is dependency injection

5. Outer join vs inner join

6. Explain about normalization

7. expalin about log4j

8. what is marker interface

**Rex-Finra-date-interviewer**

1. What is Deadlock? How to prevent it?

2. What is spring bean default bean scope? Differences between Singleton and prototype bean scope?

3. Do you know what is a linked list?

4. Find the nth element from the last in a single directional linked list.

5. Write a program to convert String (\*\*) to html (<>): "... \*\*abc\*\* ..." ==> "... <strong>abc</strong> ..."

**Grace-Finra-Date-interviewer Name**

1. simple core java questions:

2. Difference between abstract class and interface

3. Difference between overriding and overloading

4. What is polymorphism

5. there is a parent constructor and child constructor, while instantiating what should come first

coding:

max depth of binary tree, recursion

**Emma-Finra -date-interviewer**

1. Can you explain about OOPS features?

2. what are the differences b/w Interface and Abstract class?

3. What are the differences b/w HashSet, LinkedHashSet, TreeSet?

4. Explain about Singleton Design Pattern

5. What do you mean by deadlock

Algorithm:

1. String to Int

2. // ---- Write a method to convert markdown string to HTML:

// final String markdown = "\*\*luke\*\* i'm your \*\*father\*\*";

// expected output: "<strong>luke</strong> i'm your <strong>father</strong>"

**Steven wei-Finra-03/22/2017-Michael**

1. Explain what is selenium.

2. How long the Selenium test did you do? Several seconds? Several minutes? 10+ minutes?

3. What kind of problem encounter when you use Selenium?

4. Different selectors in Selenium

5. What does this xpath do //a [text () = “hello”]

6. Write a xpath that select the third row of the second table on the page.

7. Given a scenario of bank login below, write a general test plan/framework.

—A login page with username, password and click button.

— If banker login, go to the banker page, banker page has table that list all the transactions, and button of accept and reject.

— If click on the button, go to banker confirmation page. Summary has confirmed button and back button.

— If customer login, go to the customer page, has several input box to fill in and a request button.

— If request button clicks, then go to customer summary page.

8. Following question: Why do you put class in the same package, the factory in one package? Why not put all banker related class in one package?

9. Following question: Why do you use factory class?

10. Following question: Implement the LoginPage class.

11. Following question: Write a unit test for the loginPage, login with different username to different page.

12. he writes a piece of code and me to make comments.

Class Fatorial {

public int calculate (Integer n) throws Exception {

if (n == 0 || n == 1)

return 1;

else

return n\*calculate(n-1);

}

}

13. Following question: How to use this class? What if I don’t want to instantiate the object?

14. How to make sure that the class have only one instance?

15. Whether there is any problem with using the singleton?

**Second Section: Daniel, Team Lead (Focus on how I think as a tester)**

1. How did you do the system test?

2. How to do integration test? Did you test other system call your payment service?

3. List the test cases and expectation of test whether two strings are Anagram.

4. Following question: He points out several and ask why I need to test these together, is it possible to eliminate some? Give my own reasons. He wants to see how I think and how to do reasoning.

5. How to test a textbox that expected to accept integer between 1 and 100. Write the test input.

6. A http request to a web service contains 100 fields of information, in which 20 are necessary fields and 80 are optional. How to test the web service with such kind of request? Cannot make all 2^80 combination of test. (Expect to see how I think)

7. What makes you out stand compared to other interviews?

8. An ATM machine will be delivered tomorrow, how to test it from user’s point of view? (Not from electrical and mechanical point of view)

9. have you attended any corporate trainings?

**Third Section: Raj, Team Lead**

1. Explain about your testing experience regarding your project.

2. Explain the detail of how to use JMeter to do performance test.

3. Following question: when do search on the google, click the link and redirect to other page etc, how to test.

4. Ask my experience of Selenium.

5. What’s my opinion of database.

6. Write SQL: Find the team that has second largest gold.

7. Write SQL:

Given the table:

-------

--------

Select the result like below:

----------

-----------

8. Explain the experience of RESTful web service

9. Response from URL /person/name/John Smith is a JSON, write down the JSON structure with name, id, DOB, address, employee information.

10. Following question: There are several fields in JSON is “zipcode”, how to navigate to get all the “zipcode” fields.

11. When there is special character in the name like O’Neil in the URL, how to deal with it.

**Name-Finra-3/2/2017-Deva David**

1. Introduce yourself and explain about your current project.

2. Tell me about the Test tools and frameworks used in your project

3. Coding 1: Rotated Array to the left like [1,2,3,4,5] step 2 then we get [3,4,5,1,2]

4. Coding 2: Write Unit Test based on the Rotated Array method.

5. Did you Use JMeter? Did you Use AWS, comfortable with AWS?

6. Tell me about Visa Status

**Name-Finra-date-interviewer**

1. Explain about Multithread - Future

2. Explain about RESTFull Services

3. What do you mean by autowiring

4. Design application to read different files with multiple types, requirement is to use as less check(if-else) as possible,

5. Find the nearest date in sql

6. Go through the File API demo - the code in the test

7. Explain about hashcode, equals

**Doncell-Maximus-Date-interviewer**

1. how did you implement rest api?

2. explain the different verbs associated with rest.

3. what is left join.

4. difference between left join and left outer join.

5. what is facade, singleton, prototype design patterns.

6. A user submits a form, the request is processed from the server side and a confirmation page has been displayed but now the user refreshes the page so I will you prevent re-submission of the form.

7. how does an application server like tomcat differentiate between different requests or how does it maintain a session? (something other than cookies).

8. explain the architecture of the project.

9. how do you approach a new task assigned to you?

10. questions related to requirement gathering.

11. what is left outer join.

12. how did you use spring and how did you configure or implement IOC?

13. Class diagram for a file system that has files and folders and different permissions. Also, the folder can have a list of files and sub-folders so what should the getChildern () method inside the folder class return.

14. have you used ETL tools.

15. how do you rate yourself in sql?

16. what databases have you used.

17. what tools have you used to write sql queries.

18. how do you optimize your queries?

19. how do you start batch jobs and keep track of them? (spring scheduler)

**Shiv-Paychex-Jan/17-Bill Hahn, Sandeep**

1. what do you know about agile and scrum

2. did you get any chance to lead a team?

3. How did you helped in improving the programming standards?

4. Anything you did in your last project that you proud of

5. Any conflicts in your project?

6. any time did you work in extra hours.

7. what are the different stages of hibernate object?

8. can you explain about Junit?

9. how did you test yours hibernate entity?

10. explain about some modules implemented in your last project?

11. what is dependency injection

12. any disadvantage of autowired annotation

13. what are all webservices implementations you used in your project.

14. How did you test REST and SOAP webservices?

15. explain about design patterns used in Spring framework

16. What is transaction propergation

17. Explain about proxy implementation CGLIB

18. explain about spring hibernate logging level

client project / company / role / exp any questions on this position

1. your recent project / tech

2. you develop endpoint in springboot?

3. which server you deploy server (tomcat)

4. how you deploy to server (tomcat)

5. tomcat used for dev server ?

6. how you deploy things to production

7. you create docker image?

8. architecture of your project, how many database, how many server, cuz you are using docker, I need to know how big of your project

9. what is api gateway ? (zuul)

10. explanation of 3 or 4 services

11. how does eureka communicate with service

12. example of restful server design

13. use case eg customer has curstomer endpoint for all customers

14. how you retrieve ID from endpoint.(PathVariable)

15. test endpoint (postman )

16. secure endpoint, how do you secure endpoint

17. what contains token,

18. how does oauth server verify the token

19. diff hibernate and jpa.

20. how to use hibernate in jpa (entitymanager.unwrape(Session.class));

21. process in project (agile / waterfall)

22. how long is your sprint

23. who do the estimation

24. sprint meeting, before of the sprint or end

25. when is the QA enter in to your sprint lifecycle

26. what they will do

27. version control

28. any questions for me

Verizon

Lyon – 1/31

Experience, skill set

Spring? Spring boot?

Why spring boot over Spring

How you deploy to your server

Spring boot is block or non-blocking programming

How to track a user?

How is your approach to do this?

Diff scope of bean

What is prototype

Diff between request and prototype

What is singleton

Are they threadsafe?

Annotations in Spring?  
what is @Autowire?

What about @Qualifier?

Can I use qualifier along w autowire?

Diff design pattern for Spring frameworks?

Why do you use proxy pattern?

What about adapter pattern

Contextloader? Why do we use this in Spring

Joinpoint in aop?

How good are you at sql

What is innerjoin

What is outerjoin

What are the types of outerjoin

Why use junit w Mocfkito

Are you good w multithreading?

Diff way to create threads?

Diff between user thread and daemon htread

Wait, notify, notifyall, when do we use it

What is threadpool? How to create it?

Did you work as production support?

Production facing blank page(White screen)? How are you going to resolve this issue?

-LOG

How do track where does the instance come from?