throws vs throw

throw is handle an exception with try catch block inside a method

throws is throws a certain type of exception when method declare.

What is threadpool?

Threadpool is a thread management tool to handle multiple task concurrently . It will reduce the computation power. Because when 100 tasks coming in we need to create 100 thread, and when another 100 tasks come in we need to create another 100 and destroy it. We need to create a threadpool object.

What is stream Api

Stream Api is java 8 package, which contains come class, interface which contains some lazy computation and eager computation. There is operation one is intermediate operation and other one is terminated operation

Synchronized vs Asynchronized

Client make request to browser and browser make request to server, but client need to wait the result to it is synchronized.

Method block is block it is blocked whole part of the project. Code block only block the specific code.

Client make request to browser and browser make request to server and client can get result immediately.

Builder pattern

We can set other setter method behind the other method, it is a creational design pattern we can construct the object step by step. Like when we create a car, we can make all car method in one line of code. It will simplified the code.

Factory pattern

It is a pattern the user only sent the requirement and they don’t care the implementation. Like if a client sent a requirement to phone factory and , the phone factory produce the iphone to the user and sent it to client. But client only focus on object don’t focus on how to make it. It is good for code reuse.

Synchronized vs reentrancelock

Synchronized lock the entire object

reentrantLock is more flexible, the lock interface provide some lock method, unlock method, and try lock -> object lock by other thread. And it only lock some part new whole object.

What is singleton design pattern

Singleton design pattern is only one object gets created. It will use in hardware interface access, Logger and Configuration file.

What is different between eager loading and lazy loading

So the eager loading mean it fetch all related data along with the initial query

Lazy loading defer loading until it’s explicitly requested, offering on-demand data.