

Java

What is Multi Threading in Java



Java

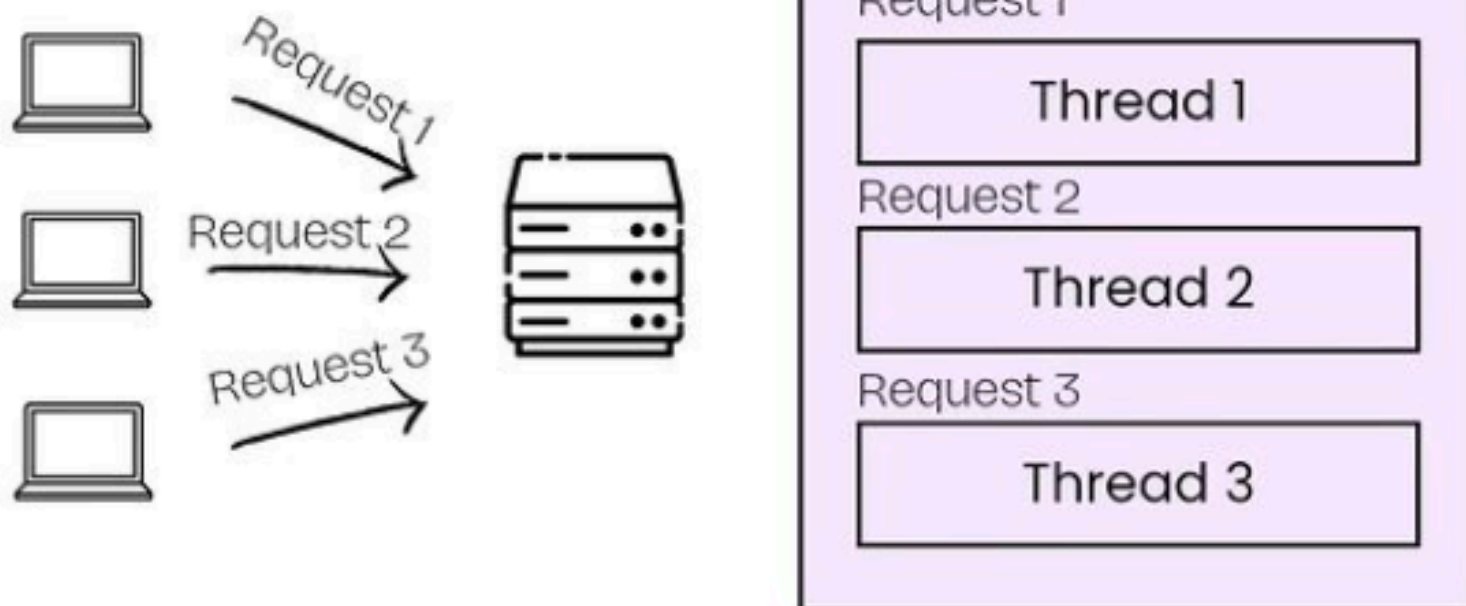
Multithreading is a programming concept where **multiple threads within a process** execute independently and concurrently

A thread is the **smallest unit of execution within a process**, and multithreading allows multiple threads to run concurrently, sharing the same resources and addressing different tasks.



but, could you please give one real life example

In a web server, **multiple clients make requests simultaneously**. Each incoming request is handled by a separate thread, allowing the server to process multiple requests concurrently.



Advantages of Multithreading

- **Improved Responsiveness:** Multithreading allows a program to remain responsive even when one thread is blocked or busy.
- **Resource Sharing:** Threads within a process share the same resources, such as memory space, making communication between threads more efficient.
- **Parallelism:** Multithreading can lead to parallel execution of tasks, improving overall performance on multiprocessor systems.



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