

FULL STACK WEB DEVELOPMENT-II

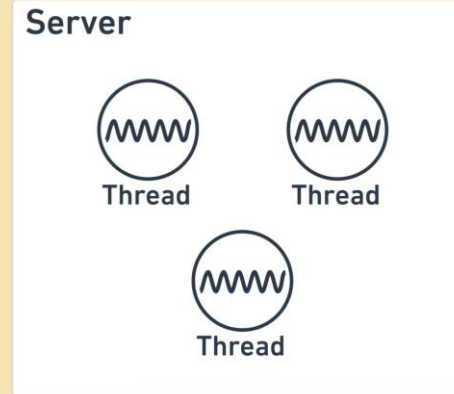
SUBMITTED TO: KULANSHU SHARMA

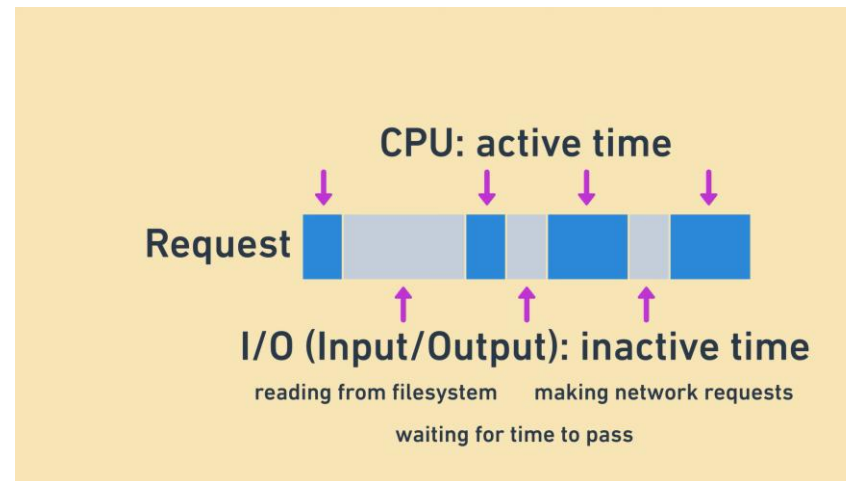
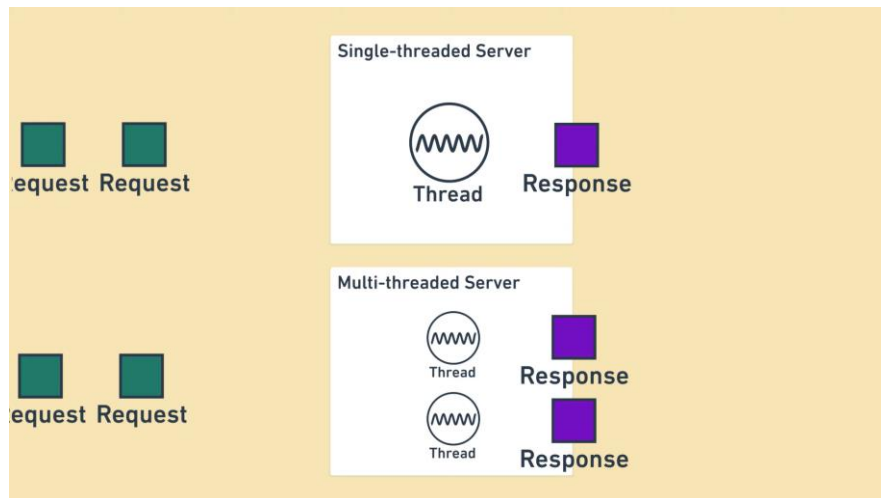
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ROLL NO.: 22105073

COURSE : B.VOC (WEB DESIGNING)

Why NodeJS is Asynchronous, Event Handler and Non blocking?







Non-blocking I/O

While a request is doing I/O, the thread is not stuck waiting for the request to finish

Blocking I/O

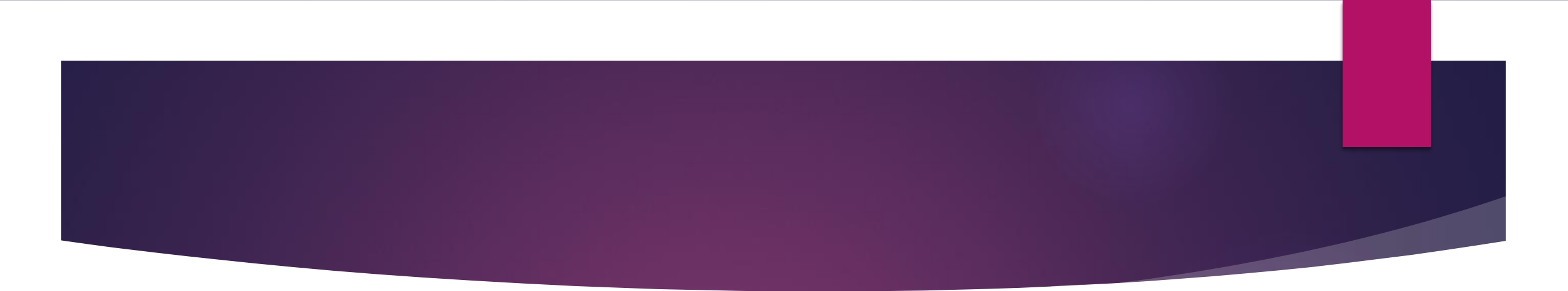
Thread is stuck, or blocked, waiting for I/O to finish

I/O Work >> CPU Work



CPU Work >> I/O Work



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1. A request can be divided into CPU work and I/O work.
 2. Servers handle requests using threads, which each independently handle requests.
 3. Nonblocking I/O allows a thread to suspend a request while it's performing I/O to work on a different request.
 4. Non-blocking I/O allows Node.js to efficiently handle IO-heavy workloads with only one thread.