



- i A Node.js process model refers to how Node.js manages its processes, executes code and handles events.
- ii It is a single-threaded, event-driven and non-blocking I/O model.
- iii Hence, it can handle large number of requests simultaneously (~~without having to create a new thread for each request~~).
- iv There are two scenarios that will occur depending on nature of requests.

1) Non-Blocking Request

- i> If the request is non-blocking, it does not involve any long-running processes or data requests.
- processes

ii) Here, the response will be immediately prepared and then sent back to the client.

2) Blocking Request

i) It requires I/O operations and the request will be sent to a thread pool.

ii) The request will have an associated call-back function that will fire when the request is finished.

iii) Then the thread sends the response request to the event loop which is then sent back to client.

v In this way, when the single thread receives a blocking request, it hands it off so that the thread can process other requests in the meantime.

vi In this way Node.js is inherently asynchronous.