## Best practices

1. Always all the rest calls should happen asynchronously with any below – never make ur cpu to wait for 3rd party api response
2. **Utilize all processors effectively** :- Why we should use multiple threads? my ampf laptop cpu have 22 processors- so with advent of multiple processors in single cpu, if u create only 1 thread means 1 processor is being utilized, It means u are not utilizing all remaining 22 processor’s effectively, so **if there are any independent tasks , run all of them in parallel** by submitting all those tasks to thread pool

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| --- | --- |
| in spring way | in core java |
| in this just annotate the methods with @Async  class Service{  @Async  public void init(){  }  } | 1. create callable or runnable tasks and submit to the thread pool   these callable/runnable tasks are responsbile to make the service calls , and now all service calls will run in true parallel   1. use completable future- ex- after making service calls, if u want to save that REST call response to database then use completable future |

## All class names ending with ER

Reader, Writer, Processor/ Adapter - ItemPrrocessor

EventListener (Use this in case ur listening to some MQ messages/ When an event triggerred)

Manager, Delegator, Server

Consumer, Transformer,

Helper,mapper

Controller

Message builder

Builder

|  |  |
| --- | --- |
| Factory  Filter  Helper  Handler  Initializer  Processor-eventProcessor  Provider  Listener  Manager-search Manager  owner  Observer  Producer Publisher,  Server, service  Validator  Watcher -FolderWatcher,  worker  Manager  Producer  DTO-Execution statusDTO  Audit  Factory | Service  DAO  Request  Response  Adapter  transaformer  Some time package name contains the year  ServiceImpl  TokenvalidationService-bec it will validate th  TradeInstructionDaolmpl  Examples  submitservice  Names for pojos  DTO,  eventDTO-when we are listening to a messag PO  Checker- HealthChecker  Connection, Consumer, Converter, context  Client  EventListener -if that is listening for an eve |

# Package names

Configuration-config

Constants

Controller

Domain

Exception

Integration – when u are calling other RESTful services

healthCheck

Listener

Repository

Schedulers

Service

web

Util