**Spring Batch**

Spring Batch is an open-source framework for batch processing. It is a lightweight, comprehensive solution designed to enable the development of robust batch applications, which are often found in modern enterprise systems. Spring Batch builds upon the POJO-based development approach of the Spring Framework.

**How to add Spring batch in spring boot project?**

Add spring batch dependency in pom.xml.

**How to enable spring batch in spring boot application?**

Add @EnableBatchProcessing annotation in main class, this annotation register many beans for us like JobBuilderFactory, StepBuilderRepository, JobRepository and so on.

**What is a Job and Step in spring batch?**

A job represents the entire batch process we wanna execute. It defines one or more steps that execute in an order we commenly called as flow. A step is a phase in a batch job that defines how the actual processing will occur for that portion of a job. The framework retains information about JobExecution within the JobRepository, allowing a job to be restarted at the point of failure, preventing reprocessing of data.

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JobInstances refer to the concept of a logical job run, which is defined by the job and its parameters. Once a job instance has been successfully completed it cannot be restarted. The job can only be re-run with different parameters. Only one JobInstance corresponds to a particular job and its parameters.

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What are different types of Steps in batch?

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on, from, to are called as transition. The on transition accepts a pattern argument that is matched against the ExitStatus. Transitions are used to define which step in a job executes next.

To understand conditional logic properly we can think “from” as ***else*** if, “on” as ***equals to***, “to” as ***then***

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**JobExecutionDecider** : Job execution decider is used to implement custom exit status codes. The JobExecution decider is registered within the Job configuration and is used to provide a custom ExitStatus following the execution of a step.