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Spring Batch

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=> Spring Batch is a light weight, comprehensive batch framework designed to enable the development of robust batch applications.

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What is Batch Application ?

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-> The application which will process bulk of records is called as Batch application.

Ex :

- 1) Sending Monthly Salaries to all employees in company
- 2) Generating Monthly Payslips for employees
- 3) Sending Monthly Bank Account statement to acc holders
- 4) Sending Monthly credit card bill statement to card holders
- 5) Sending Festival Greetings to all customers
- 6) Sending Notices on daily/weekly/monthly/yearly basis...

process process
CSV File =====> Database =====> CSV File

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Spring Batch Terminology

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- 1) JobLauncher
- 2) Job
- 3) Step
- 4) ItemReader
- 5) ItemProcessor
- 6) ItemWriter
- 7) JobRepository

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Spring Boot with Batch Example

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Requirement : Read Customers Data From CSV file and write into Database table

1) Create Spring Starter project with below dependencies

- a) web-starter
- b) batch
- c) data-jpa
- d) mysql-driver
- e) lombok

2) Configure Datasource properties in application.yml file

3) Keep Source File under "src/main/resources" folder (customers.csv)

4) Create Entity class & Repository interface

5) Create Batch Configuration class

6) Create RestController and launch job

Git Hub Repo URL : https://github.com/ashokitschool/springboot_batch_app.git

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Assignment

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=> Read Data from DB table and store into CSV file using Spring Batch.