**Spring Scheduler Example**

**Description:** Spring framework has built in support for scheduled tasks. Here are some examples of spring scheduler jobs using both annotations and xml configurations.

This project just print value in console after run every scheduler

**Project Source Code**

**Git URL:https://github.com/mustafamym/SpringScheduler**

**Git Repo:https://github.com/mustafamym/SpringScheduler.git**

**Following technologies being used**

* Spring Boot 1.4.1.RELEASE
* Java 8
* Quartz 2.2.1
* Maven
* Eclipse/NetBeans

**Short description**

**@Scheduled annotation**

This annotation is used for task scheduling. The trigger information needs to be provided along with this annotation. You can use the properties fixedDelay/fixedRate/cron to provide the triggering information.

1. fixedRate makes Spring run the task on periodic intervals even if the last invocation may be still running.

2. fixedDelay specifically controls the next execution time when the last execution finishes.

3. cron is a feature originating from Unix cron utility and has various options based on your requirements.

**Example usage can be as below:**

**@Scheduled(fixedDelay =30000)**

**public void demoServiceMethod () {... }**

**@Scheduled(fixedRate=30000)**

**public void demoServiceMethod () {... }**

**@Scheduled(cron="0 0 \* \* \* \*")**

**public void demoServiceMethod () {... }**

**QUARTZ SCHEDULER**

**Main features of quartz are as below:**

Job Scheduling – Schedule a job based on day, date, year, month or cron as well. You can start repeat indefinitely jobs as well.

Job Execution – Executes Java code on trigger.

Job Persistence – Support JobStore to store jobs into database. So, even after server restart trigger will be fired.

Transactions – JTA transaction to rollback scheduling in case of failure of code.

Clustering – Multiple nodes can automatically maintain load balancing and failover

Listeners & Plug-Ins – Control job/trigger behavior

### **CREATE A SIMPLE SPRING BOOT APPLICATION WITH MAVEN.**

## 1. Configuration quartz schedule

## ****Spring-Quartz.xml****

## ****2. Scheduled annotation****

Configuration under package

## com.demo.spring.schedule.annotation;

## 3. Schedule using XML Configuration

spring-shedule-config.xml;

**From command line -> mvn spring-boot:run**

**From ide project->run**

