Quartz Extension

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This module (isis-module-quartz) provides a wrapper around the Quartz scheduler.

How to configure/use

You can either use this module "out-of-the-box", or you can fork this repo and extend to your own requirements.

Classpath

Update your classpath by adding this dependency in your webapp's project's pom.xml:

```
<dependency>
     <groupId>org.isisaddons.module.quartz</groupId>
     <artifactId>isis-module-quartz-dom</artifactId>
        <version>1.16.1</version>
</dependency>
```

Check for later releases by searching [Maven Central Repo](http://search.maven.org/#search|ga|1|isis-module-quartz-dom).

For instructions on how to use the latest -SNAPSHOT, see the contributors guide.

Configure Quartz

There are many ways to configure Quartz; the instructions below are for a basic setup:

• First, add an entry in web.xml:

```
<servlet>
     <servlet-name>QuartzInitializer</servlet-name>
     <servlet-class>org.quartz.ee.servlet.QuartzInitializerServlet</servlet-class>
     <init-param>
         <param-name>config-file</param-name>
         <param-value>config/quartz.properties</param-value>
     </init-param>
     <init-param>
         <param-name>shutdown-on-unload</param-name>
         <param-value>true</param-value>
     </init-param>
     <init-param>
         <param-name>start-scheduler-on-load</param-name>
         <param-value>true</param-value>
     </init-param>
     <load-on-startup>1</load-on-startup>
</servlet>
```

• Second, add a config/quartz.properties file:

```
org.quartz.scheduler.instanceName = SchedulerQuartzConfigXml
org.quartz.threadPool.threadCount = 1
org.quartz.jobStore.class = org.quartz.simpl.RAMJobStore
org.quartz.plugin.jobInitializer.class =
org.quartz.plugins.xml.XMLSchedulingDataProcessorPlugin
org.quartz.plugin.jobInitializer.fileNames = config/quartz-config.xml
org.quartz.plugin.jobInitializer.failOnFileNotFound = true
```

• Finally, add a config/quartz-config.xml file (also under in src/main/resources so is loaded from classpath):

```
<?xml version="1.0" encoding="UTF-8"?>
<job-scheduling-data</pre>
    xmlns="http://www.quartz-scheduler.org/xml/JobSchedulingData"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://www.quartz-scheduler.org/xml/JobSchedulingData
http://www.quartz-scheduler.org/xml/job scheduling data 1 8.xsd"
    version="1.8">
    <schedule>
        <iob>
            <name>RunBackgroundCommandsJob</name>
            <group>CommandModule</group>
            <description>Runs all background commands</description>
class>org.isisaddons.module.quartz.dom.jobs.RunBackgroundCommandsJob</job-class>
            <job-data-map>
                <entry>
                    <key>user</key>
                    <value>scheduler_user</value>
                </entry>
                <entry>
                    <key>roles</key>
                    <value>admin_role</value>
                </entry>
            </job-data-map>
        </job>
        <trigger>
            <cron>
                <name>RunBackgroundJobsEvery10Seconds
                <job-name>RunBackgroundCommandsJob</job-name>
                <job-group>CommandModule</job-group>
                <cron-expression>0/10 * * * * ?</cron-expression>
            </cron>
        </trigger>
    </schedule>
</job-scheduling-data>
```

Details on the cron format can be found, for example, in this tutorial. For example:

```
0 0/30 * * * ? is every 30 minutes0/10 * * * * ? is every 10 seconds
```

Known issues

None known at this time.

Dependencies

Maven can report modules dependencies using:

```
mvn dependency:list -o -pl modules/ext/quartz/impl -D excludeTransitive=true
```

which, excluding the Incode Platform and Apache Isis modules, returns these compile/runtime dependencies:

```
org.quartz-scheduler:quartz:jar:2.2.1
org.quartz-scheduler:quartz-jobs:jar:2.2.1
```

For further details on 3rd-party dependencies, see:

• Quartz