

Exercise 9 - CronJobs

Goal

In this exercise, you will learn how to create and configure a CronJob within the hybris Commerce Suite. The exercise will ask you to create a CronJob that determines the 5 most-rented books and launches a business process that will send this list to customers via E-mail.

Instructions Preparation

Run this Ant target: **Exercise07_CronJobs-prepare**.

You are now ready to begin exercise 7. Your tasks are spread over the following files:

`${YOURPATH}/hybris/bin/custom/training/trainingcore/src/my/bookstore/core/services/impl/DefaultBookstoreEmailService.java`

`${YOURPATH}/hybris/bin/custom/training/trainingcore/src/my/bookstore/core/jobs/SendMostRentedBooksJob.java`

`${YOURPATH}/hybris/bin/custom/training/trainingcore/resources/bookstorecore/import/common/essential-data.impex`

`${YOURPATH}/hybris/bin/custom/training/trainingcore/resources/trainingcore-spring.xml` You can also see the description of these exercises (other than the one in **essential-data.impex**) in the Task view of Eclipse.

Exercise 7.1

You should first create the logic of your CronJob. For this purpose, a class called **BookstoreEmailJob** has already been created for you. Add your code in the body of this class's *perform()* method. Your implementation should use the **rentalDao** bean to generate a list of the 5 most-rented books, then use the **bookstoreEmailService** bean to email all the customers. Finally, the method should return an appropriate **PerformResult**.

Remember to add the job bean to **trainingcore-spring.xml**. Call it **bookstoreEmailJob**.

Exercise 7.2

Now create the items necessary to activate the job on your system. Add the necessary lines to **essential-data.impex**. Assume that the trigger fires every day of every month at 12am (midnight), forever. Please use **bookstoreEmailCronJob** as the code for the CronJob—to enable verification of your task later.

To import **essential-data.impex**, you need to go to hAC and update the platform with only **Create essential data** checked.

Cron Expression Format

To learn about the format of a Cron expression, please consult this [webpage](#).

Since you don't have access to the valid hybris emails that receive the list, the email content will be printed for you in the console.

Verify

To verify your solution, go to the **hAC** and run the script **verifyExercise7**. Please note that the verification script does not check the business logic and only checks the existence of required methods, beans, etc.

You can verify the behavior of the CronJob you just created by running it yourself. To do that, go to **hMC** and then under **System** double click on **CronJobs**. Then you can search for **bookstoreEmailCronJob**. Open the CronJob and start it. Then you should see 5 most-rented books in your terminal/console.

Recap

In this exercise, you learned how to create a CronJob to schedule recurrent tasks in your system.