

# Activity Package Use Cases

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## Activity Package Definition

An Activity Package is a collection of Activities. The collection can be used for the purpose of bulk purchasing multiple activities in one transaction. It is possible that the Activity Package costs less than the summed price of the individual packages but not necessary.

## Possible Use Cases

There are many different reasons why someone may want to create an Activity Package. The following list highlights some of the possibilities

- Buy 5 and get one free
  - In this situation the subscriber pays for 5 activities up front and receives the 6th for free.
- March Evening Activity Package
  - In this situation the publisher has created a “course” were the subscriber signs up to a certain set of activities that occur in the evenings. For example a similar concept exists for language lessons.

# Use Cases

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Setup

Activities

| Activity Type     | Start            | Finish           | Capacity | Price  |
|-------------------|------------------|------------------|----------|--------|
| Morning Jogging   | 01/05/2015 07:00 | 01/05/2015 09:00 | 20       | CHF 20 |
| Evening Jogging   | 01/05/2015 18:00 | 01/05/2015 20:00 | 20       | CHF 20 |
| Interval Training | 01/06/2015 18:00 | 01/06/2015 19:00 | 20       | CHF 10 |
| Interval Training | 02/05/2015 18:00 | 02/05/2015 19:00 | 20       | CHF 10 |
| Interval Training | 04/05/2015 18:00 | 04/05/2015 19:00 | 20       | CHF 10 |
| Morning Jogging   | 08/05/2015 07:00 | 08/05/2015 09:00 | 20       | CHF 20 |
| Evening Jogging   | 08/05/2015 18:00 | 08/05/2015 20:00 | 20       | CHF 20 |
| Interval Training | 09/05/2015 18:00 | 09/05/2015 19:00 | 20       | CHF 10 |
| Interval Training | 11/05/2015 18:00 | 11/05/2015 19:00 | 20       | CHF 10 |
| Morning Jogging   | 15/05/2015 07:00 | 15/05/2015 09:00 | 20       | CHF 20 |
| Evening Jogging   | 15/05/2015 18:00 | 15/05/2015 20:00 | 20       | CHF 20 |
| Interval Training | 16/05/2015 18:00 | 16/05/2015 19:00 | 20       | CHF 10 |
| Interval Training | 18/05/2015 18:00 | 18/05/2015 19:00 | 20       | CHF 10 |
| Morning Jogging   | 22/05/2015 07:00 | 22/05/2015 09:00 | 20       | CHF 20 |
| Evening Jogging   | 22/05/2015 18:00 | 22/05/2015 20:00 | 20       | CHF 20 |
| Interval Training | 23/05/2015 18:00 | 23/05/2015 19:00 | 20       | CHF 10 |
| Interval Training | 25/05/2015 18:00 | 25/05/2015 19:00 | 20       | CHF 10 |
| Morning Jogging   | 29/05/2015 07:00 | 29/05/2015 09:00 | 20       | CHF 20 |
| Evening Jogging   | 29/05/2015 18:00 | 29/05/2015 20:00 | 20       | CHF 20 |
| Interval Training | 30/05/2015 18:00 | 30/05/2015 19:00 | 20       | CHF 10 |

## Use Case 1

Creation Date: 01/04/2015

Purchase Date: 05/04/2015

Create Activity Package

Name: May Morning Jogging

Description: Book in advance and get one run free

Price: 80 CHF

Item Count: 5

| Activity Type   | Start            | Finish           | Capacity |
|-----------------|------------------|------------------|----------|
| Morning Jogging | 01/05/2015 07:00 | 01/05/2015 09:00 | 6/20     |
| Morning Jogging | 08/05/2015 07:00 | 08/05/2015 09:00 | 6/20     |
| Morning Jogging | 15/05/2015 07:00 | 15/05/2015 09:00 | 6/20     |
| Morning Jogging | 22/05/2015 07:00 | 22/05/2015 09:00 | 6/20     |
| Morning Jogging | 29/05/2015 07:00 | 29/05/2015 09:00 | 6/20     |

## Activities Added

In this case the Publisher has added 5 Activities and the item count is 5. When the Subscriber attempts to purchase the Activity Package all the Activities are automatically selected and no editing is possible.

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## Use Case 2

Creation Date: 01/04/2015

Purchase Date: 05/04/2015

Create Activity Package

Name: May Morning Jogging

Description: Book in advance and get one run free

Price: 80 CHF

Item Count: 5

Activities Added

| Activity Type   | Start            | Finish           | Capacity |
|-----------------|------------------|------------------|----------|
| Morning Jogging | 08/05/2015 07:00 | 08/05/2015 09:00 | 7/20     |
| Morning Jogging | 15/05/2015 07:00 | 15/05/2015 09:00 | 7/20     |
| Morning Jogging | 22/05/2015 07:00 | 22/05/2015 09:00 | 7/20     |
| Morning Jogging | 29/05/2015 07:00 | 29/05/2015 09:00 | 7/20     |

In this case the Publisher has added 4 Activities and the item count is 5. This is an invalid situation and the Publisher is prevented from creating the package. An error message should make the Publisher aware of the issue.

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### Use Case 3

Creation Date: 01/04/2015

Purchase Date: 05/04/2015

Create Activity Package

Name: May Morning Jogging

Description: Book in advance and get one run free

Price: 80 CHF

Item Count: 0

It is not valid to create an Activity Package with an Item Count of 0. The Item Count field should not allow values less than 1.

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Use Case 4

Creation Date: 01/04/2015

Purchase Date: 05/04/2015

Create Activity Package

Name: May Jogging

Description: Book in advance and get one run free

Price: 80 CHF

Item Count: 5

Activities Added

| Activity Type   | Start            | Finish           | Capacity |
|-----------------|------------------|------------------|----------|
| Morning Jogging | 01/05/2015 07:00 | 01/05/2015 09:00 | 16/20    |
| Evening Jogging | 01/05/2015 18:00 | 01/05/2015 20:00 | 17/20    |
| Morning Jogging | 08/05/2015 07:00 | 08/05/2015 09:00 | 16/20    |
| Evening Jogging | 08/05/2015 18:00 | 08/05/2015 20:00 | 17/20    |
| Morning Jogging | 15/05/2015 07:00 | 15/05/2015 09:00 | 19/20    |
| Evening Jogging | 15/05/2015 18:00 | 15/05/2015 20:00 | 17/20    |
| Morning Jogging | 22/05/2015 07:00 | 22/05/2015 09:00 | 19/20    |
| Evening Jogging | 22/05/2015 18:00 | 22/05/2015 20:00 | 10/20    |
| Morning Jogging | 29/05/2015 07:00 | 29/05/2015 09:00 | 5/20     |
| Evening Jogging | 29/05/2015 18:00 | 29/05/2015 20:00 | 7/20     |

In this case the Publisher has added 10 Activities and the item count is 5. When the Subscriber attempts to purchase the Activity Package they can choose up to 5 of the 10 activities.

## Use Case 5

Creation Date: 01/04/2015

Purchase Date: 21/05/2015

Create Activity Package

Name: May Jogging

Description: Book in advance and get one run free

Price: 80 CHF

Item Count: 5

Activities Added

| Activity Type              | Start            | Finish           | Capacity |
|----------------------------|------------------|------------------|----------|
| <del>Morning Jogging</del> | 01/05/2015 07:00 | 01/05/2015 09:00 | 16/20    |
| <del>Evening Jogging</del> | 01/05/2015 18:00 | 01/05/2015 20:00 | 16/20    |
| <del>Morning Jogging</del> | 08/05/2015 07:00 | 08/05/2015 09:00 | 16/20    |
| <del>Evening Jogging</del> | 08/05/2015 18:00 | 08/05/2015 20:00 | 16/20    |
| <del>Morning Jogging</del> | 15/05/2015 07:00 | 15/05/2015 09:00 | 16/20    |
| <del>Evening Jogging</del> | 15/05/2015 18:00 | 15/05/2015 20:00 | 16/20    |
| Morning Jogging            | 22/05/2015 07:00 | 22/05/2015 09:00 | 15/20    |
| Evening Jogging            | 22/05/2015 18:00 | 22/05/2015 20:00 | 15/20    |
| Morning Jogging            | 29/05/2015 07:00 | 29/05/2015 09:00 | 15/20    |
| Evening Jogging            | 29/05/2015 18:00 | 29/05/2015 20:00 | 15/20    |

In this case the Publisher has added 10 Activities and the item count is 5. The 6 activities that have a Start time in the past are no longer valid. When the Subscriber attempts to purchase this Activity Package they will see the invalid Activities with a strikethrough and will not be able to select them. Only the valid Activities can be selected. As the valid Activities are less than Item Count they will be automatically selected and no editing will be possible. When the Book It button is selected an “Are you sure” warning should be displayed informing the Subscriber that they have selected less Activities than Item Count. If the Subscriber decides to continue the Activity Package is purchased.

## Use Case 6

Creation Date: 01/04/2015

Purchase Date: 10/04/2015

## Create Activity Package

Name: May Jogging

Description: Book in advance and get one run free

Price: 80 CHF

Item Count: 5

## Activities Added

| Activity Type              | Start            | Finish           | Capacity |
|----------------------------|------------------|------------------|----------|
| <del>Morning Jogging</del> | 01/05/2015 07:00 | 01/05/2015 09:00 | 20/20    |
| Evening Jogging            | 01/05/2015 18:00 | 01/05/2015 20:00 | 18/20    |
| <del>Morning Jogging</del> | 08/05/2015 07:00 | 08/05/2015 09:00 | 20/20    |
| Evening Jogging            | 08/05/2015 18:00 | 08/05/2015 20:00 | 18/20    |
| <del>Morning Jogging</del> | 15/05/2015 07:00 | 15/05/2015 09:00 | 20/20    |
| Evening Jogging            | 15/05/2015 18:00 | 15/05/2015 20:00 | 18/20    |
| <del>Morning Jogging</del> | 22/05/2015 07:00 | 22/05/2015 09:00 | 20/20    |
| Evening Jogging            | 22/05/2015 18:00 | 22/05/2015 20:00 | 10/20    |
| Morning Jogging            | 29/05/2015 07:00 | 29/05/2015 09:00 | 4/20     |
| Evening Jogging            | 29/05/2015 18:00 | 29/05/2015 20:00 | 1/20     |

In this case the Publisher has added 10 Activities and the item count is 5. Some of the Activities are at maximum capacity. The fully booked Activities can not be selected and have a strikethrough line. As the valid Activities are greater than Item Count the Subscriber can select which Activities they would like added to the Activity Package.

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## Use Case 7

Creation Date: 01/04/2015

Valid From: 20/04/2015 00:00

Valid To: 01/05/2015 06:00

Create Activity Package

Name: May Morning Jogging

Description: Book in advance and get one run free

Price: 80 CHF

Item Count: 5

Activities Added

| Activity Type   | Start            | Finish           | Capacity |
|-----------------|------------------|------------------|----------|
| Morning Jogging | 01/05/2015 07:00 | 01/05/2015 09:00 | 6/20     |
| Morning Jogging | 08/05/2015 07:00 | 08/05/2015 09:00 | 6/20     |
| Morning Jogging | 15/05/2015 07:00 | 15/05/2015 09:00 | 6/20     |
| Morning Jogging | 22/05/2015 07:00 | 22/05/2015 09:00 | 6/20     |
| Morning Jogging | 29/05/2015 07:00 | 29/05/2015 09:00 | 6/20     |

In this case the Publisher has set the Valid From and Valid To fields. These fields indicate when the Activity Package is visible to Subscribers. Before Valid From no Subscriber can see or purchase the package. After Valid To no Subscriber can see or purchase the package. Between Valid From and Valid To Subscribers can see and purchase the package.

## Possible Future Enhancements

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### Activity Package Termination Strategies

Depending on the situation it might not make sense to continue selling an Activity Package. Below are possible scenarios that could occur. Similar to the Valid From/To setup it might be useful to allow a Publisher to disable an Activity Package if these scenarios occur.

1. If some of the Activities in an Activity Package can no longer be selected and the sum of the price of the remaining Activities is less than the Activity Package it might be useful to no longer offer the Activity Package.
2. If the number of selectable Activities in an Activity Package falls below a certain number, for example Item Count, it might be useful to no longer offer the Activity Package.

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### Activity Package only Activities

If a Publisher only wants to sell Activity Packages and not individual Activities it might be necessary to have a hide option on the Activity. For example a motorcycle course will consist of 3 Activities, Monday Theoretical, Wednesday Manoeuvres, Friday Traffic. In this case all 3 activities must be purchased together.