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**Advanced Commerce Concepts**

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# Agenda

- Wish Lists and Gift Lists

# Learning Objectives

At the end of this lesson you should be able to:

- Learn about Gift list, wish list and their life cycles
- Understand the difference between a gift list and a wish list
- Learn about the components that make up the gift list sub system
- Use the Gift List Form Handler to create and edit Gift Lists and Wish Lists
- Search for Gift lists with the Giftlist Search Form Handler
- Use Giftlist Servlet Beans to manage interaction between Giftlist and the user
- Learn about the gift list repository and business layer classes

# Section 1:

## Wish Lists and Gift Lists



# Gift Lists and Wish Lists

- Gift lists and wish lists are lists of items saved against profile for various uses like future purchase, event registry, etc.
- Gift lists are **public** and:
  - Customers create them to list events such as birthdays, weddings, etc.
  - Customers can create an **unlimited** number of gift lists.
- Wish lists are **private** and:
  - Customers use wish lists to save a list of products for future purchase.
  - All customers get a **single** default wish list.



# Accessing Lists

My Shopping Lists

Acoustic guit... (public) or create a new list

Electric Guit... (private)

Acoustic guit... (public)

Music(private)

Acoustic guitars

Remove List

Sort by: priority

This list is public, [make private?](#)

**Hummingbird Acoustic Guitar Heritage Cherry Sunburst Chrome Hardware**

Buy New \$299.00

Desired: 1 Received: 0

Remove Item

1 - Got to have it

Added: 06/21/2011

Qty: 1 Add to Cart

**EJ-200 Acoustic Guitar Vintage Sunburst**

Buy New \$399.00

Desired: 2 Received: 0

Remove Item

1 - Got to have it

Added: 09/24/2011

Qty: 1 Add to Cart

- Gift lists and Wish lists are usually accessed from the my account section of the site.

# Adding to Lists

Add to List  
from Cart

Add to List from  
Product Detail  
Page






Home > Shopping Cart

Need Help? 877-880-5907

[Continue Shopping](#) [Proceed To Checkout](#)

### Shopping Cart

Item	Price	Quantity	Total
 Fender American Standard Stratocaster Electric Guitar 3-Tone Sunburst Maple Fretboard Item #515748000064063 In Stock & Ready To Ship <a href="#">Add Gold Coverage (View Options)</a>	<del>\$1,049.99</del> Was \$1,469.99 Save: \$420.00	1 <a href="#">Update</a> <a href="#">Remove</a> <a href="#">Add to List</a>	= \$1,049.99
 Gibson Les Paul Standard Traditional Pro Electric Guitar Heritage Cherry Sunburst Item #581715000039000 In Stock & Ready To Ship <a href="#">Add Gold Coverage (View Options)</a>	<del>\$1,999.99</del>	<a href="#">Add to List</a>	= \$1,999.99
 PRS SE Singlecut Electric Guitar Item #H70026000001000 In Stock & Ready To Ship	<del>\$642.00</del> Was \$989.00 Save: \$347.00	100 <a href="#">Update</a> <a href="#">Remove</a>	= \$64,200.00


**Add to List:**  
☒ Electric Guitars  
☐ Acoustic guitars  
☐ Music  
[New List](#) [Add](#)

Gibson Les Paul Studio Electric Guitar

★★★★★ 739 Reviews | Write a Review | Like

SKU #517030000025116

**Best Seller**



MSRP: ..... \$1799.00  
Your Savings: ..... ~~\$480.00~~  
Standard Shipping: ..... FREE  
**Your Price: \$1319.00**

Buy: [New](#) [Used](#)

[Top Rated](#)  
[Top Seller](#)  
[Flexible Financing](#)  
[45-Day Guarantee](#)  
[Ships to Canada](#)

New Wine Red Gold Qty: 1

**In Stock & Ready to Ship**

**Gold Coverage: (What's This?)**

☐ 3-YEAR Warranty for \$179.99 (Most Popular)  
☐ 2-YEAR Warranty for \$149.99  
☒ Decline Coverage

[+ Add To Cart](#) [+ Add to Wishlist](#)

**Add to List:**  
☒ Electric Guitars  
☐ Acoustic guitars  
☐ Music  
[New List](#) [Add](#)

[Related Videos](#)

# Gift List Lifecycle

- John Smith logs onto the site and creates a list of items he would like to receive for his birthday.
- Mike, John's friend, then visits the site and searches for "John Smith."
- The store returns a list of items found.
- Mike sees that John wants a guitar and an amp.
- Mike decides to purchase these items and adds it to his cart.
- During the checkout process, Mike can send the item to his own address or send it directly to John.
- During checkout he can optionally hide prices and opt for gift wrapping.

# Wish List Life Cycle

- Sally is researching for a new electric guitar.
- She finds 4 guitars that match her style.
- She adds all these to her private wish list for more research.
- She talks to her musician friend and she recommends one of the guitars.
- She adds selected guitar to her cart and checks out.
- The remaining items are saved in the wish list for later visits.

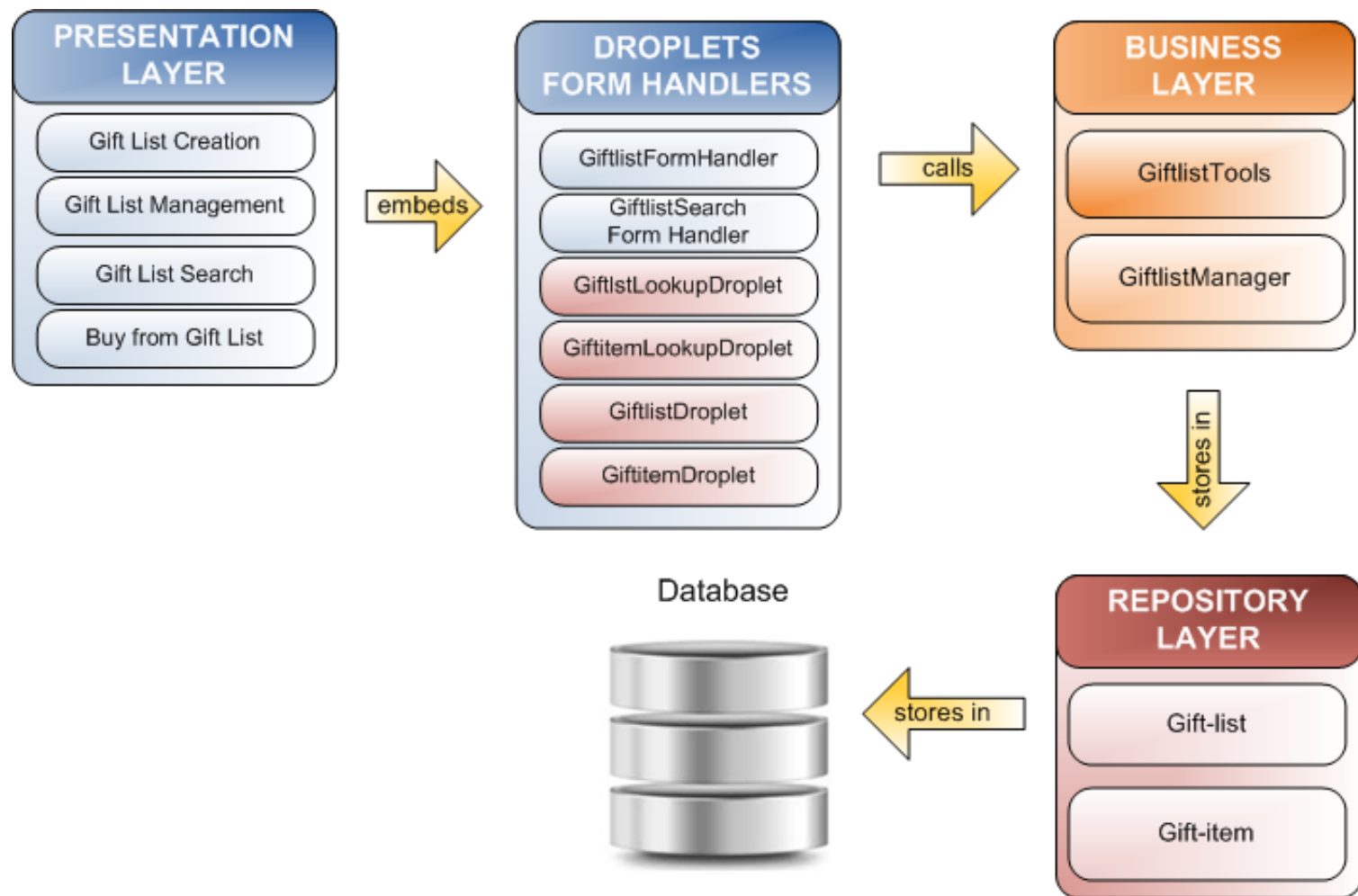
# Gift Lists and Wish Lists

- Gift lists are typically public while wish lists are private. Gift lists may also be private.
- A wish list is **actually** a gift list that is accessible to only the person who created it.
- All customers get one single default wish list. In comparison, a customer could have multiple gift lists.
- Gift lists are created to allow others to buy for you while a wish list is created to allow you to buy something for yourself later.
- ATG provides business layer classes, form handlers, droplets, and repository to deal with gift lists. Since wish lists are also gift lists, they are handled in the same way.
- The rest of this section will only discuss gift lists as all of it is also applicable to wish lists.

# Gift List Subsystems

- Gift list functionality is implemented in ATG using the following subsystems:
  - Gift list form handlers and droplets,
  - Gift list business layer classes,
  - Purchase process extensions to support gift lists,
  - Gift list repository.
- Gift list functionality can be extended to add specific requirements that are not covered.
- Finally, for sites that do not require this functionality, gift lists can be disabled.

# Gift List Components/ Classes



# Gift List UI Components

- The gift list subsystems consist of components to manage interactions with the UI.
- The following form handlers are provided:
  - GiftlistFormHandler,
  - GiftlistSearch.
- The following servlet beans are provided:
  - GiftlistLookupDroplet,
  - GiftitemLookupDroplet,
  - GiftlistDroplet,
  - GiftitemDroplet.



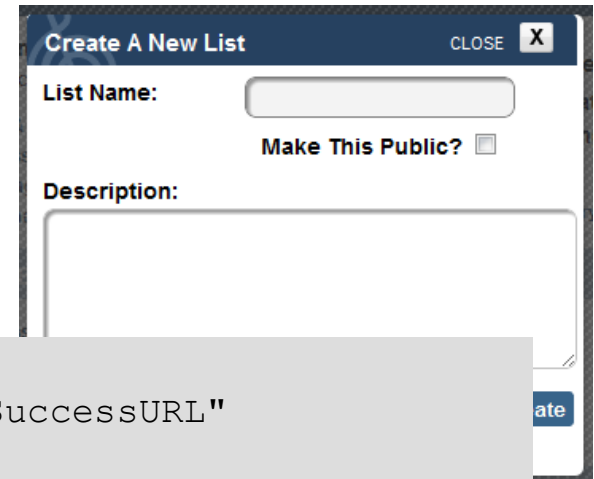
# Giftlist Form Handlers

- The **GiftlistFormHandler** accepts input from the customer to create, update, and delete gift lists, as well as to add items to and remove items from gift lists.
- The GiftlistFormHandler should be session-scoped because multiple pages usually gather the information needed for gift list management.
- The GiftlistFormHandler has a number of handle methods. Many of the handle methods have corresponding preMethodName, postMethodName, and methodName methods for easy extension.

# Giftlist Form Handler Methods

- Gift list form handler has the following methods:
  - **createGiftlist** creates a gift list.
  - **addItemToGiftlist** adds items to gift list.
  - **deleteGiftlist** deletes a gift list.
  - **moveItemsFromCart** takes items out of cart and into gift list.
  - **saveGiftlist** creates and saves gift lists.
  - **updateGiftlist** updates the current gift list.
  - **updateGiftlistItems** changes the quantity of a gift list item or removes the item from the list.

# Example Usage of Gift List Form Handler



```
<dsp:form action="lists.jsp" method="POST">
  <dsp:input bean="GiftlistFormHandler.saveGiftlistSuccessURL"
    type="hidden" value="./lists.jsp"/>
  <dsp:input bean="GiftlistFormHandler.saveGiftlistErrorURL"
    type="hidden" value="./lists_new.jsp"/>
  Create A New List <br/>
  <b>List Name</b>
  <dsp:input bean="GiftlistFormHandler.eventName" size="40" type="text"/>
  Make This Public?
  <dsp:input bean="GiftlistFormHandler.isPublished" name="published"
    type="checkbox" value="true"/> <br/>
  <b>Event Description</b><br>
  <dsp:textarea bean="GiftlistFormHandler.description" rows="4" cols="40">
  </dsp:textarea>
  <dsp:input bean="GiftlistFormHandler.saveGiftlist" type="submit"
    value="Create"/>
</dsp:form>
```

# Giftlist Search Form Handler

- GiftlistSearch form handler searches the repository for gift lists.
- It uses customer input such as owner name, event name, event type, and state.
- It uses supporting servlet beans to add retrieved gift lists to the customer's profile and to display gift list content.
- It should be session scoped as it spans multiple pages.
- Gift list search can be configured for:
  - Name Search: Search by name of the gift list owner.
  - Advanced Search: Search for matches to properties.
  - Published List Search: When true, searches only published lists.
- It has one method:
  - **handleSearch**: searches for gift lists.

# Gift List Search Form Handler Usage

My Shopping Lists

Choose a list... or **create a new list**

Find Someone's List

Joe Bruin **Find A List**

Joel's wishlist...

Filter by: all Sort by: priority

priority: 1 - Got to have it

**V2 Open Road Overdrive Guitar Effects Pedal Yellow**

Buy New \$119.95  
Desired: 1 Received: 0

Added: 02/08/12

Qty: 1 **Add to Cart**

priority: 1 - Got to have it

**V2 Series V2RT808 Route 808 Overdrive Guitar Effects Pedal**

Buy New \$99.95  
Desired: 1 Received: 0

Added: 02/08/12

Qty: 1 **Add to Cart**

Search  
Form

Results

```
<h3>Find Someone's List</h3>
<dsp:form action="giftlist_search.jsp" method="POST">
  <dsp:input bean="GiftlistSearch.searchInput" size="30" type="text"/>
  <dsp:input bean="GiftlistSearch.search" type="submit"
    value="Find A List"/>
  <input type="hidden" name="searching" value="true">
</dsp:form>
```

# Giftlist Servlet Beans

- Gift list servlet beans are used to look up gift lists and gift items, remove or purchase items from a gift list, add gift lists to a profile, and remove gift lists from a profile.
  - The **GiftlistLookupDroplet** and **GiftitemLookupDroplet** servlet beans provide a way to search for and display gift lists and gift items in the Giftlists repository based on ID.
  - The **GiftlistDroplet** servlet bean adds or removes customer A's gift list from customer B's otherGiftlists profile property, depending on the action supplied via the action input parameter.
  - The **GiftitemDroplet** enables customers either to buy or to remove items from their own personal gift lists.

# Example Usage of Gift List Servlet Beans

- This code snippet lists key properties of a gift list given the ID.

```
<dsp:droplet name="/atg/commerce/gifts/GiftlistLookupDroplet">
  <dsp:param name="id" param="giftlistId"/>
  <dsp:oparam name="output">
    <dsp:setvalue paramvalue="element" param="giftlist"/>
    <span class=storebig>Gift List for
    <dsp:valueof param="giftlist.owner.firstName"/>
    <dsp:valueof param="giftlist.owner.middleName"/>
    <dsp:valueof param="giftlist.owner.lastName"/>
    <b>Event name:</b><dsp:valueof param="giftlist.eventName"/>

    <b>Event description:</b><br>
    <dsp:valueof param="giftlist.description"/><br>

  </dsp:oparam>
  <dsp:oparam name="empty">
    Nothing in this gift list.
  </dsp:oparam>
</dsp:droplet>
```

# Example Usage of GiftlistDroplet

- This code example demonstrates how to use the GiftlistDroplet to add a gift list that was retrieved in a search to a customer's profile.

```
<dsp:droplet name="/atg/commerce/gifts/GiftlistLookupDroplet">
  <dsp:param name="id" param="giftlistId"/>
  <dsp:oparam name="output">
    <dsp:setvalue paramvalue="element" param="giftlist"/>
    <span class=storebig>Gift List for
    <dsp:valueof param="giftlist.owner.firstName"/>
    <dsp:valueof param="giftlist.owner.middleName"/>
    <dsp:valueof param="giftlist.owner.lastName"/>
    <b>Event name:</b><dsp:valueof param="giftlist.eventName"/>

    <b>Event description:</b><br>
    <dsp:valueof param="giftlist.description"/><br>

  </dsp:oparam>
  <dsp:oparam name="empty">
    Nothing in this gift list.
  </dsp:oparam>
</dsp:droplet>
```

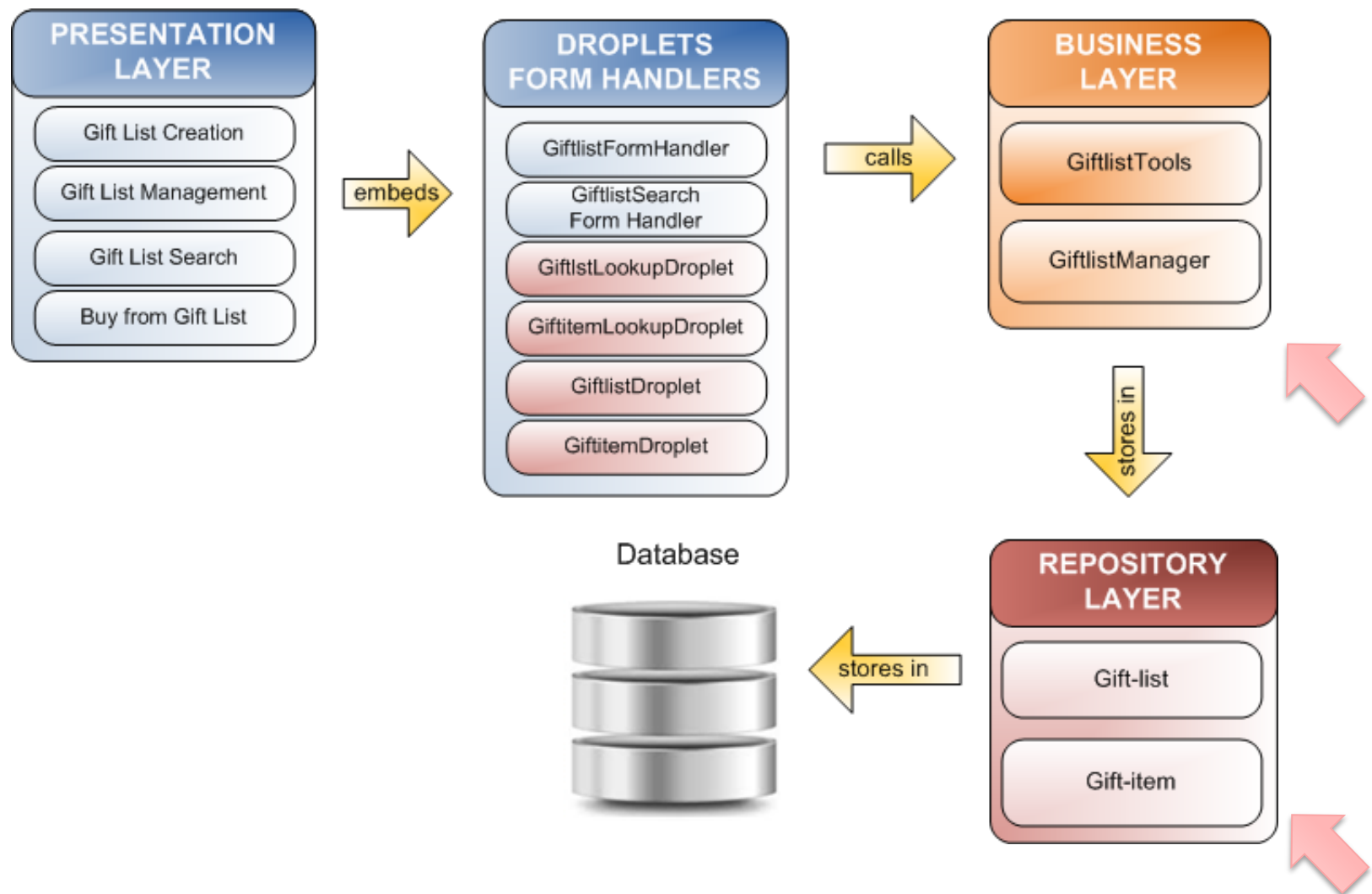


# GiftitemDroplet

- Two ATG Commerce servlet beans are instantiated from this class.
  - BuyItemFromGiftlist, and
  - RemoveItemFromGiftList.
- This code snippet shows how to use RemoveItemFromGiftlist to remove an item from a person's personal wish list.

```
<dsp:droplet name="/atg/dynamo/droplet/IsEmpty">
  <dsp:param param="giftId" name="value"/>
  <dsp:oparam name="false">
    <dsp:droplet
      name="/atg/commerce/gifts/RemoveItemFromGiftlist">
        <dsp:param param="giftlistId" name="giftlistId"/>
        <dsp:param param="giftId" name="giftId"/>
      </dsp:droplet>
    </dsp:oparam>
  </dsp:droplet>
```

# Gift List Components/ Classes



# Gift List Business Layer Classes

- Business layer classes contain the logic for gift list creation and manipulation.
- **GiftlistTools**
  - The low level interface contains the logic for creating and editing gift lists in the repository.
  - It is not usually called directly. Generally, it is called by the GiftlistManager class to perform tasks on gift lists.
- **GiftlistManager**
  - The class contains such methods as createGiftlist, updateGiftlist, addItemToGiftlist, and removeItemFromGiftlist.
  - These methods are higher level than those in GiftlistTools and mostly perform validation tasks before calling GiftlistTools to update the gift list repository.

# Giftlist Repository

- Giftlist repository provides an interface to the database layer to persist gift list information using SQL repository implementation.
- The Giftlists repository is defined in the giftlists.xml definition file, located in the ATG Commerce configuration path at /atg/commerce/gifts/.
- Properties in the userProfile.xml definition file allow you to link user profiles with gift lists in the gift list repository.
- Repository item: gift-list
  - id, owner, published, eventName, eventDate, giftlistItems.
- Repository item: gift-item
  - id, productId, catalogRefId, description, quantityDesired.

# Purchase Process Extensions to Support Giftlists

- To support purchasing gifts off a gift list, components in the order package (atg.commerce.order) have been extended.
- The following classes provide gift list functionality to the purchase process:
  - CartModifierFormHandler,
  - GiftlistHandlingInstruction,
  - ShippingGroupDroplet,
  - ShippingGroupFormHandler,
  - ProcUpdateGiftRepository,
  - ProcSendGiftPurchasedMessage.

# Extending Gift List Functionality

- Extending gift list includes the following basic steps:
  - Updating the database and repository definition:
    - Modify your database schema and update the database script included with ATG Commerce.
    - Extend the repository definition for gift lists by layering on a giftlists.xml file.
  - Extending GiftlistFormHandler:
    - Extend the class `atg.commerce.gifts.GiftlistFormHandler` to support your new properties and override related methods.
    - Layer on a `GiftlistFormHandler.properties` file to configure an instance of the new class you created.

# Disabling the Gift List Repository

- If you are not going to use the Giftlists repository, you can disable it.
- Disabling this repository prevents you from having to create the associated tables in your database.
- Perform the following steps to disable the Giftlists repository:
  - Edit the /atg/registry/ContentRepositories component and remove the value in the initialRepositories property that references the /atg/commerce/gifts/Giftlist component.
  - Edit the /atg/commerce/gifts/GiftlistTools component and set the giftlistRepository property to null.
  - Remove the updateGiftRepository and sendGiftPurchased processors from the commerce pipeline.

## Section 1



# Check Your Understanding

What method of the Giftlist form handler can be used to add items from cart to a gift list and remove them from cart?

**Answer:**

**moveItemsFromCart takes items out of cart and into gift list.**



## Section 1



# Check Your Understanding

What is the GiftitemDroplet used for?

**Answer:**

**The GiftitemDroplet enables customers either to buy or to remove items from their own personal gift lists.**

# Section 1



## Check Your Understanding

If you want to set up a birthday list of items for your friends to buy, should you set up a gift list or a wish list?

**Answer:**

**Gift lists are public and hence more useful in the given situation.**

## Section 1



# Check Your Understanding

Name two business layer classes used for Giftlist functionality.

**Answer:**

**GiftlistTools and GiftlistManager.**

## Section 1



# Check Your Understanding

Which repository holds the gift lists? Name a few repository items.

**Answer:**

**GiftlistRepository has gift-list and gift-item repository items.**

## Section 1



# Check Your Understanding

To disable gift lists in ATG, you must edit the GiftlistTools component and set \_\_\_\_ ?

**Answer:**

**Edit the /atg/commerce/gifts/GiftlistTools component and set the giftlistRepository property to null.**

# Summary

- Gift lists and wish lists are lists of items saved against profile for various uses like future purchase, event registry, etc.
- Gift lists are typically public while wish lists are private. Gift lists may also be private.
- The gift list subsystem consists of form handlers and droplets to manage interactions with the UI.
- Business layer classes contain the logic for gift list creation and manipulation.
- Giftlist repository provides an interface to the database layer to persist gift list information using SQL repository implementation.
- To support purchasing gifts off a gift list, components in the order package have been extended.



# Q&A





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