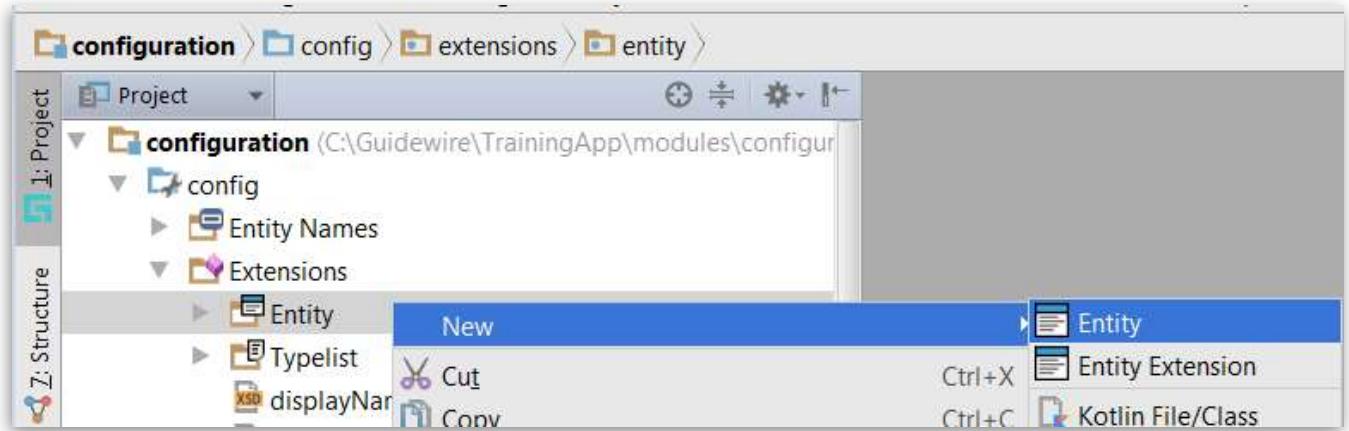


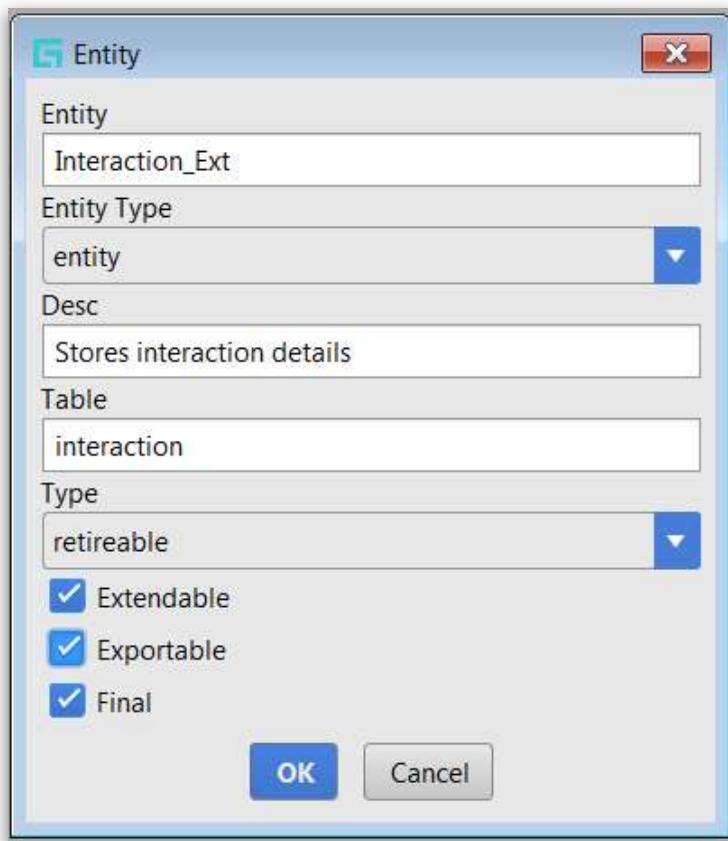


## Solution

Exact details on how to complete the lab.

### 1. Create the Interaction\_Ext entity





## 2. Add new elements to Interaction\_Ext.eti

- Add the InteractionDate field

The Interaction\_Ext.eti element editor shows the following table:

Element	Primary Value	Secondary Value	Name	
entity	Interaction_Ext	Stores interactio...	<b>name</b>	InteractionDate
column	InteractionDate	datetime	<b>type</b>	datetime
			<b>nullok</b>	true

b) Add the InitiatedByContact field

Element	Primary Value	Secondary Value	Name
entity	Interaction_Ext	Stores interactio...	<b>name</b>
column	InteractionDate	datetime	<b>type</b>
column	InitiatedByContact	bit	<b>nullok</b>

c) Add the Summary field and its columnParam

Element	Primary Value	Secondary Value	Name
entity	Interaction_Ext	Stores interactio...	<b>name</b>
column	InteractionDate	datetime	<b>type</b>
column	InitiatedByContact	bit	<b>nullok</b>
column	Summary	varchar	<b>desc</b>
	columnParam	size	allowInitialValueForUpgrade

d) Add the AssociatedUser field

Element	Primary Value	Secondary Value	Name
entity	Interaction_Ext	Stores interactio...	<b>name</b>
column	InteractionDate	datetime	<b>fkentity</b>
column	InitiatedByContact	bit	<b>nullok</b>
column	Summary	varchar	<b>columnName</b>
foreignkey	AssociatedUser	User	<b>AssociatedUserID</b>
			<b>desc</b>

3. Entities support incremental code generation. You can click on the validate icon or use the CTRL + S keystroke to kick off incremental code generation. You can open the generated Java class once the code generation is completed.

**Note:** The code generation was successful if the Codegen tool window has nothing to show.

Screenshot of some of the Java code generated by the Codegen tool.

The screenshot shows the IntelliJ IDEA interface with the following details:

- Project Bar:** configuration > generated > entity > Interaction\_Ext
- Toolbars:** Project, Structure
- Code Editor:** The file Interaction\_Ext.java is open. The code defines a class named Interaction\_Ext that extends com.guidewire.pl.persistence.code.BeanBase and implements entity.Retireable. It includes annotations for generated code, deprecation, and simple property processing. It also defines static final references to EntityPropertyInfoReference for ABCONTACT\_PROP and ASSOCIATEDUSER\_PROP.

## 1.5 Lab Solution: Define an array relationship between two entities



## Solution

Exact details on how to complete the lab.

- #### **1. Add the array key to the ABContact.etc**

Element	Primary Value	Secondary Value	Name
array	Interactions_Ext	Interaction_Ext	<b>name</b>
implements	com.guidewire....	com.guidewire.a...	<b>arrayentity</b>
implements	com.guidewire....	com.guidewire.a...	desc

2. You must also add a foreign key to Interaction\_Ext.eti since every array requires a reverse foreign key on the other side of the relationship.

The screenshot shows the ABContact.etx configuration interface. The 'Interaction\_Ext' entity is selected. A table lists the foreignkey properties:

Element	Primary Value	Secondary Value	Name	
entity	Interaction_Ext	Stores interactio...	<b>name</b>	ABContact
column	InteractionDate	datetime	<b>fkentity</b>	ABContact
column	InitiatedByContact	bit	<b>nullok</b>	false
▶ column	Summary	varchar	<b>columnName</b>	ABContactID
foreignkey	AssociatedUser	User	<b>desc</b>	
foreignkey	ABContact	ABContact	<b>archivingOwner</b>	<i>target</i>

3. Entities support incremental code generation. You can click on the validate icon or use the CTRL + S keystroke to kick off incremental code generation. You can open the generated Java class once the code generation is completed.

Note: The code generation was successful if the Codegen tool window has nothing to show.

```

configuration > generated > entity > Interaction_Ext >
Project: Interaction_Ext.java
public class Interaction_Ext extends com.guidewire.code.BeanBase implements entity.Retireable {
  public static final String TYPE = "entity.Interaction_Ext";
  public static final ILinkPropertyInfo ABCONTACT_PROP = new com.guidewire.commons.metadata.types.LinkPropertyInfoCache(TYPE, "ABContact");
}
  
```

```

configuration > generated > entity > ABContact >
Project: entity\ABContact.java
public class ABContact extends com.guidewire.code.BeanBase implements entity.Retireable {
  public static final String TYPE = "entity.ABContact";
  public static final IColumnPropertyInfo ID_PROP = new com.guidewire.commons.metadata.types.ColumnPropertyInfoCache(TYPE, "ID");
  public static final IArrayPropertyInfo INTERACTIONS_EXT_PROP = new com.guidewire.commons.metadata.types.ArrayPropertyInfoCache(TYPE, "Interactions_Ext");
}
  
```

```

configuration > generated > entity > ABContact >
Project: entity\ABContact.java
public class ABContact extends com.guidewire.code.BeanBase implements entity.Retireable {
  ...
  /**
   * Adds the given element to the Interactions_Ext array. This is achieved by setting
   * the element to the array.
   */
  public void addToInteractions_Ext(entity.Interaction_Ext element) {
    __getInternalInterface().addArrayElement(INTERACTIONS_EXT_PROP.get(), element);
  }
}
  
```

configuration > generated > entity > ABContact >

entity\ABContact.java

```
/*
 * Removes the given element from the Interactions_Ext array. This is achieved by mark
 */
public void removeFromInteractions_Ext(entity.Interaction_Ext element) {
    _getInternalInterface().removeArrayElement(INTERACTIONS_EXT_PROP.get(), element);
}
```