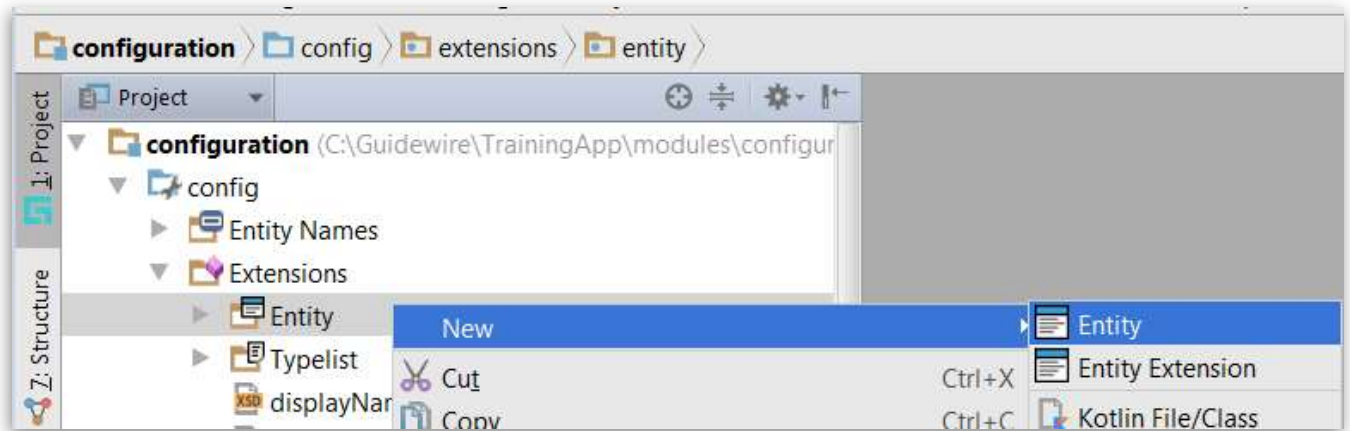




Solution

Exact details on how to complete the lab.

1. Create the `Interaction_Ext` entity



Entity

Entity

Interaction_Ext

Entity Type

entity

Desc

Stores interaction details

Table

interaction

Type

retireable

☒ Extendable
 ☒ Exportable
 ☒ Final

OK

Cancel

2. Add new elements to Interaction_Ext.eti

a) Add the InteractionDate field

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

b) Add the InitiatedByContact field

Interaction_Ext.eti x				
<div> <div>+</div> <div>column</div> <div> </div> <div>Show All</div> <div> </div> </div>				
Element	Primary Value	Secondary Value	Name	
▼ entity	Interaction_Ext	Stores interactio...	name	InitiatedByContact
column	InteractionDate	datetime	type	bit
column	InitiatedByContact	bit	nullok	true

c) Add the Summary field and its columnParam

Interaction_Ext.eti x				
<div> <div>+</div> <div>columnParam</div> <div> </div> <div>Show All</div> <div> </div> </div>				
Element	Primary Value	Secondary Value	Name	
▼ entity	Interaction_Ext	Stores interactio...	name	Summary
column	InteractionDate	datetime	type	varchar
column	InitiatedByContact	bit	nullok	true
▼ column	Summary	varchar	desc	
columnParam size		60	allowInitialValueForUpgrade	false

d) Add the AssociatedUser field

Interaction_Ext.eti x				
<div> <div>+</div> <div>foreignkey</div> <div> </div> <div>Show All</div> <div> </div> </div>				
Element	Primary Value	Secondary Value	Name	
▼ entity	Interaction_Ext	Stores interactio...	name	AssociatedUser
column	InteractionDate	datetime	fkentity	User
column	InitiatedByContact	bit	nullok	true
▶ column	Summary	varchar	columnName	AssociatedUserID
foreignkey	AssociatedUser	User	desc	

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.

```

6  //
7  @javax.annotation.Generated(value = "com.guidewire.pl.metadata.codegen.Codegen", comments = "Interaction_Ext.eti;Interacti
8  /deprecation, unchecked/
9  @gw.internal.gosu.parser.ExtendedType
10 @gw.lang.SimplePropertyProcessing
11 @gw.entity.EntityName(value = "Interaction_Ext")
12 public class Interaction_Ext extends com.guidewire.pl.persistence.code.BeanBase implements entity.Retireable {
13     public static final gw.pl.persistence.type.EntityTypeReference<entity.Interaction_Ext> TYPE = new com.guidewire.commons.
14
15     public static final gw.pl.persistence.type.EntityPropertyInfoReference<gw.entity.ILinkPropertyInfo> ABCONTACT_PROP = new
16
17     public static final gw.pl.persistence.type.EntityPropertyInfoReference<gw.entity.ILinkPropertyInfo> ASSOCIATEDUSER_PROP
18

```

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.etx

Element	Primary Value	Secondary Value	Name	
array	Interactions_Ext	Interaction_Ext	name	Interactions_Ext
implements	com.guidewire....	com.guidewire.a...	arrayentity	Interaction_Ext
implements	com.guidewire....	com.guidewire.a...	desc	All interactions associated with the contact

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.

ABContact.etx × Interaction_Ext.eti ×				
<div> + foreignkey Show All </div>				
Element	Primary Value	Secondary Value	Name	
entity	Interaction_Ext	Stores interactio...	name	ABContact
column	InteractionDate	datetime	fkentity	ABContact
column	InitiatedByContact	bit	nullok	false
column	Summary	varchar	columnName	ABContactID
foreignkey	AssociatedUser	User	desc	
foreignkey	ABContact	ABContact	archivingOwner	target

- 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 >
Interaction_Ext.java ×
...
ance.code.BeanBase implements entity.Retireable {
    ace<entity.Interaction_Ext> TYPE = new com.guidewire.commons.metadata.types.EntityIntrinsicTypeReference<>("entity.Interaction_Ext");
...
foReference<gw.entity.ILinkPropertyInfo> ABCONTACT_PROP = new com.guidewire.commons.metadata.types.LinkPropertyInfoCache(TYPE, "ABContact");

```

```

configuration > generated > entity > ABContact >
entity\ABContact.java ×
...
columnPropertyInfo> ID_PROP = new com.guidewire.commons.metadata.types.ColumnPropertyInfoCache(TYPE, "ID");
...
.IArrayPropertyInfo> INTERACTIONS_EXT_PROP = new com.guidewire.commons.metadata.types.ArrayPropertyInfoCache(TYPE, "Interactions_Ext");

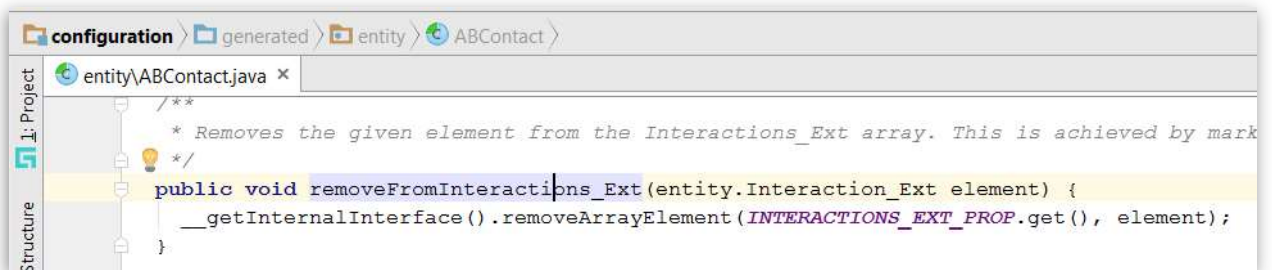
```

```

configuration > generated > entity > ABContact >
entity\ABContact.java ×
...
}

/**
 * Adds the given element to the Interactions_Ext array. This is achieved by setti
 */
public void addToInteractions_Ext(entity.Interaction_Ext element) {
    __getInternalInterface().addArrayElement(INTERACTIONS_EXT_PROP.get(), element);
}

```



```
configuration > generated > entity > ABContact >  
entity\ABContact.java x  
/**  
 * 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);  
}
```