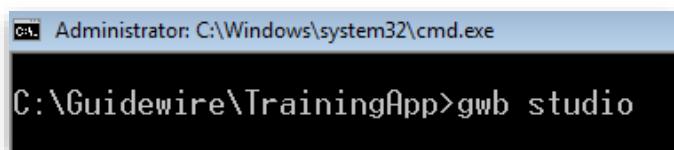


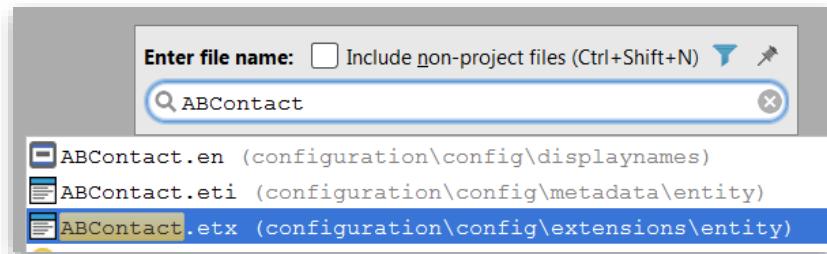
3.4 Lab Solution: Modify an existing Entity Extension



1. Open Guidewire Studio



2. Use CTRL + SHIFT + N to navigate to the existing Entity Extension



3. Add the new elements (and subelements) to ABContact.etx

4. Add the new WebAddress_Ext column

- Right click on the WebAddress_Ext column and add select Add New... columnParam to add a columnParam with the following details:

A screenshot of the ABContact.etx configuration editor. The left pane shows a tree structure with "column" selected. The right pane displays two tables: one for columns and one for column parameters. In the columns table, there is a row for "WebAddress_Ext" with "varchar" as the primary value and "40" as the size. In the column parameters table, there are two rows: "name" with value "size" and "value" with value "40".

5. Add the new FraudInvestigationNum_Ext integer column:

ABContact.etx

The screenshot shows the ABContact.etx configuration window. On the left, there's a tree view with 'column' selected. Under 'column', there are three rows: 'WebAddress_Ext' (Primary Value: varchar, Secondary Value: varchar), 'FraudInvestigationN...' (Primary Value: integer, Secondary Value: integer), and 'implementsInter...' (Primary Value: com.guidewire.pl.do..., Secondary Value: com.guidewire.ab.d...). On the right, there's a table titled 'ABContact.eti' with four rows: 'name' (Value: FraudInvestigationNum_Ext), 'type' (Value: integer), 'nullok' (Value: true), and 'desc' (Value: empty).

Element	Primary Value	Secondary Value	Name	Value
column	WebAddress_Ext	varchar	name	FraudInvestigationNum_Ext
columnParam	size	40	type	integer
column	FraudInvestigationN...	integer	nullok	true
implementsInter	com.guidewire.pl.do...	com.guidewire.ab.d...	desc	

6. Add a new LastCourtesyContact_Ext column:

ABContact.etx

The screenshot shows the ABContact.etx configuration window. On the left, there's a tree view with 'column' selected. Under 'column', there are four rows: 'WebAddress_Ext' (Primary Value: varchar, Secondary Value: varchar), 'FraudInvestigationN...' (Primary Value: integer, Secondary Value: integer), 'LastCourtesyContact...' (Primary Value: datetime, Secondary Value: datetime), and 'implementsInter...' (Primary Value: com.guidewire.pl.do..., Secondary Value: com.guidewire.ab.d...). On the right, there's a table titled 'ABContact.eti' with four rows: 'name' (Value: LastCourtesyContact_Ext), 'type' (Value: datetime), 'nullok' (Value: true), and 'desc' (Value: Date and Time of courtesy interaction).

Element	Primary Value	Secondary Value	Name	Value
▶ column	WebAddress_Ext	varchar	name	LastCourtesyContact_Ext
column	FraudInvestigationN...	integer	type	datetime
column	LastCourtesyContact...	datetime	nullok	true
implementsInter	com.guidewire.pl.do...	com.guidewire.ab.d...	desc	Date and Time of courtesy interaction

7. Add a new decimal column with the following details:

ABContact.etx

The screenshot shows the ABContact.etx configuration window. On the left, there's a tree view with 'column' selected. Under 'column', there are four rows: 'LastCourtesyContact...' (Primary Value: datetime, Secondary Value: datetime), 'CustomerRating_Ext' (Primary Value: decimal, Secondary Value: decimal), and two 'implementsInter...' rows. On the right, there's a table titled 'ABContact.eti' with five rows: 'name' (Value: CustomerRating_Ext), 'type' (Value: decimal), 'nullok' (Value: true), and 'desc' (Value: Customer Rating). The 'implementsInter...' row is also present in the table.

Element	Primary Value	Secondary Value	Name	Value
column	LastCourtesyContact...	datetime	name	CustomerRating_Ext
column	CustomerRating_Ext	decimal	type	decimal
implementsInter	com.guidewire.pl.do...	com.guidewire.ab.d...	nullok	true
implementsInter	com.guidewire.pl.sy...	com.guidewire.ab.d...	desc	Customer Rating

8. Right click on the CustomerRating_Ext column and add select Add New... columnParam to add a columnParam with the following details:

ABContact.etx

The screenshot shows the ABContact.etx extension in the Studio interface. On the left, there's a tree view with 'columnParam' selected. In the main pane, there are two tables. The first table has three columns: Element, Primary Value, and Secondary Value. It contains rows for 'column' (Primary Value: LastCourtesyConta..., Secondary Value: datetime) and 'column' (Primary Value: CustomerRating_Ext, Secondary Value: decimal). Below these is a row for 'columnParam' (Primary Value: precision, Secondary Value: 4), which is highlighted with a blue background. To the right of this table is another table with columns Name and Value, containing rows for 'name' (Value: precision) and 'value' (Value: 4).

Element	Primary Value	Secondary Value	Name	Value
column	LastCourtesyConta...	datetime		
column	CustomerRating_Ext	decimal		
columnParam	precision	4		

Name	Value
name	precision
value	4

9. Right click on the CustomerRating_Ext column again and add select Add New... columnParam to add a second columnParam with the following details:

Screenshot of the ABContact.etx extension, with the new column

ABContact.etx

This screenshot shows the ABContact.etx extension in Studio. The 'columnParam' table now includes a new row for 'scale' (Primary Value: scale, Secondary Value: 1), which is also highlighted with a blue background. The right-hand table remains the same as in the previous screenshot.

Element	Primary Value	Secondary Value	Name	Value
column	LastCourtesyConta...	datetime		
column	CustomerRating_Ext	decimal		
columnParam	precision	4		
columnParam	scale	1		

10. Add the new IsStrategicPartner_Ext column with the following details:

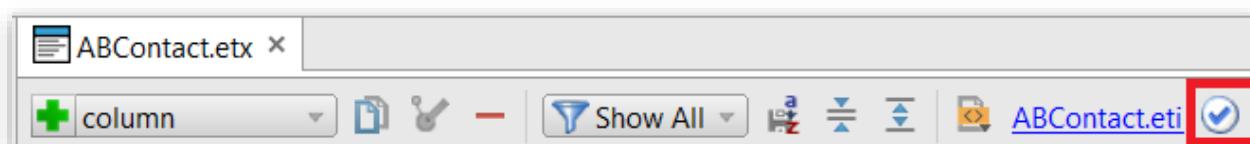
ABContact.etx

This screenshot shows the ABContact.etx extension in Studio. A new 'column' row has been added to the table on the left, with 'IsStrategicPartner_Ext' as the element name, 'bit' as the primary value, and 'com.guidewire.pl.d...' as the secondary value. This row is also highlighted with a blue background. The right-hand table shows the following details for this new column:

Name	Value
name	IsStrategicPartner_Ext
type	bit
nullok	true
desc	Is Strategic Partner?

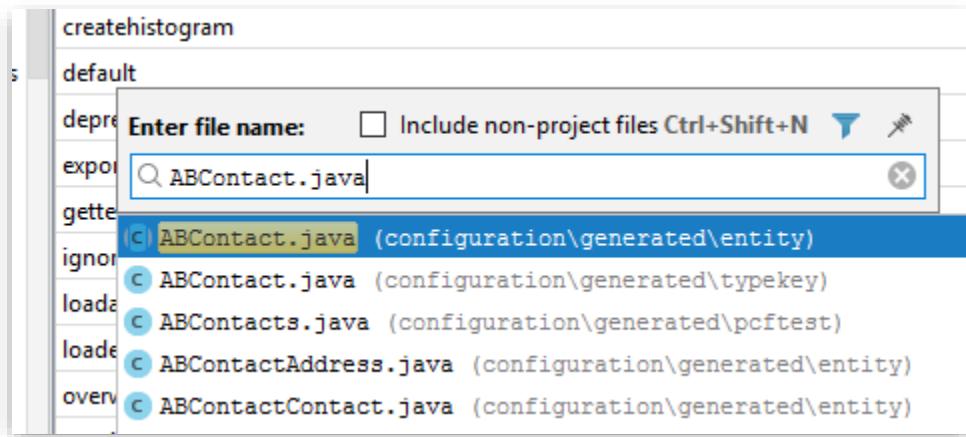
11. Validate changes in Studio and generate the Java class

- a) Either click on the validate icon in the Entity Editor or use CTRL + S to save your changes

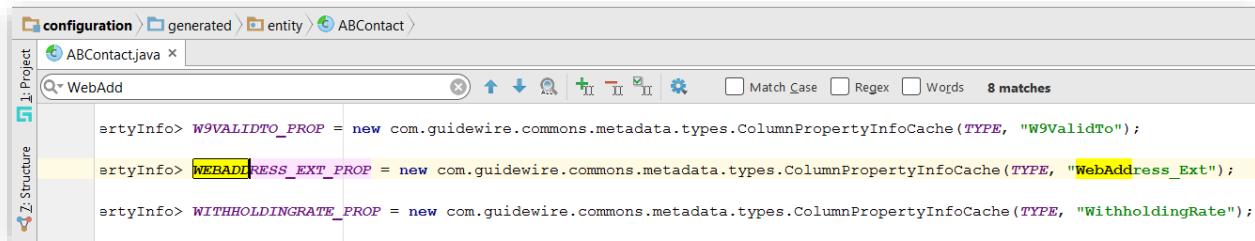


12. If the code generation was successful (no errors shown in the codegen tool window) then open the generated Java class and verify you can find your newly added fields.

- Use CTRL + SHIFT + N to search for the Java class. Note that the Java class is in the configuration\generated\entity package.



The simplest way to locate the new properties is searching for them using the **CTRL + F** shortcut. For example, we are searching for WebAddress_Ext in the following screenshot:

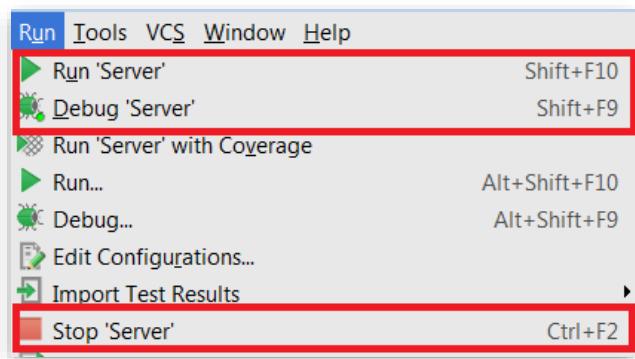


13. Build the Data Dictionary

A screenshot of a Windows Command Prompt window titled "Administrator: C:\windows\system32\cmd.exe". The command "C:\Guidewire\TrainingApp>gwb genDataDictionary" is being typed into the prompt.

14. Deploy changes

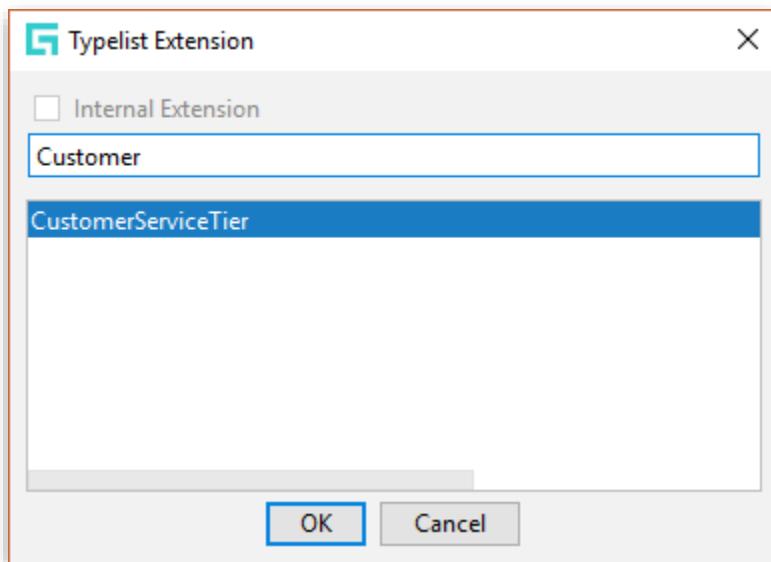
- To restart the server, first select Main Menu → Run → Stop, then select Main Menu → Run → Run 'Server' or Debug 'Server'.



3.5 Lab Solution: Extend a base application Typelist



1. Create the Typelist Extension



2. Add Typecodes by clicking the typecode button (the icon with the green plus icon)

The screenshot shows the configuration interface with the path: configuration > config > extensions > typelist > CustomerServiceTier.ttx. The 'CustomerServiceTier.ttx' tab is selected. In the toolbar, the 'typecode' button (green plus icon) is highlighted. The main area displays a table with two sections: '1: Project' and '2: Structure'. The '2: Structure' section contains a table with columns: Element, Code, Name, Priority, Name, and Value. A new row for 'typecode platinum_Ext' has been added, with its details shown in the right-hand table:

Element	Code	Name	Priority	Name	Value
typelistextens	CustomerServ...	Represents th...		code	platinum_Ext
typecode	platinum_Ext	Platinum	10	name	Platinum
typecode	gold_Ext	Gold	20	desc	Platinum
typecode	silver_Ext	Silver	30	identifierCode	
				priority	10
				retired	false

The screenshot shows the configuration interface with the path: configuration > config > extensions > typelist > CustomerServiceTier.ttx. The 'CustomerServiceTier.ttx' tab is selected. The 'typecode' button in the toolbar is highlighted. The main area displays a table with two sections: '1: Project' and '2: Structure'. The '2: Structure' section contains a table with columns: Element, Code, Name, Priority, Name, and Value. A new row for 'typecode gold_Ext' has been added, with its details shown in the right-hand table:

Element	Code	Name	Priority	Name	Value
typelistextens	CustomerServ...	Represents th...		code	gold_Ext
typecode	platinum_Ext	Platinum	10	name	Gold
typecode	gold_Ext	Gold	20	desc	Gold
typecode	silver_Ext	Silver	30	identifierCode	
				priority	20
				retired	false

The screenshot shows the configuration interface with the path: configuration > config > extensions > typelist > CustomerServiceTier.ttx. The 'CustomerServiceTier.ttx' tab is selected. The 'typecode' button in the toolbar is highlighted. The main area displays a table with two sections: '1: Project' and '2: Structure'. The '2: Structure' section contains a table with columns: Element, Code, Name, Priority, Name, and Value. A new row for 'typecode silver_Ext' has been added, with its details shown in the right-hand table:

Element	Code	Name	Priority	Name	Value
typelistextens	CustomerServ...	Represents th...		code	silver_Ext
typecode	platinum_Ext	Platinum	10	name	Silver
typecode	gold_Ext	Gold	20	desc	Silver
typecode	silver_Ext	Silver	30	identifierCode	
				priority	30
				retired	false