

6.5 Lab Solution: Field-level validation in the UI

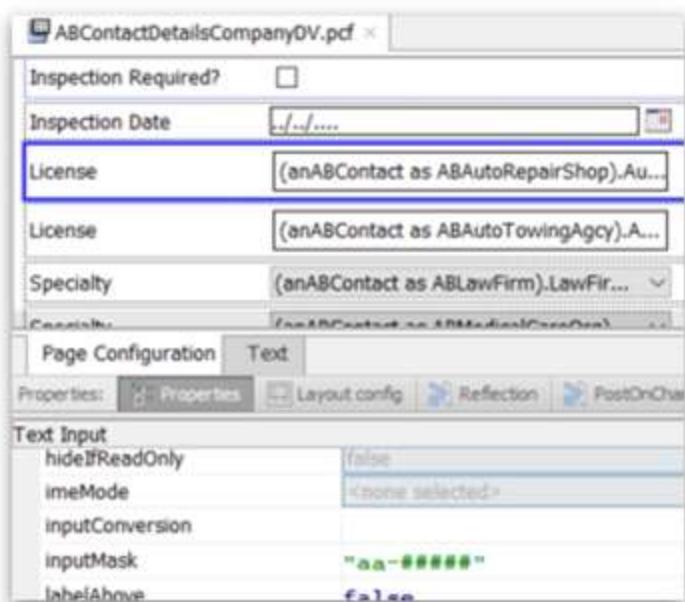


Solution

Exact details on how to complete the lab.

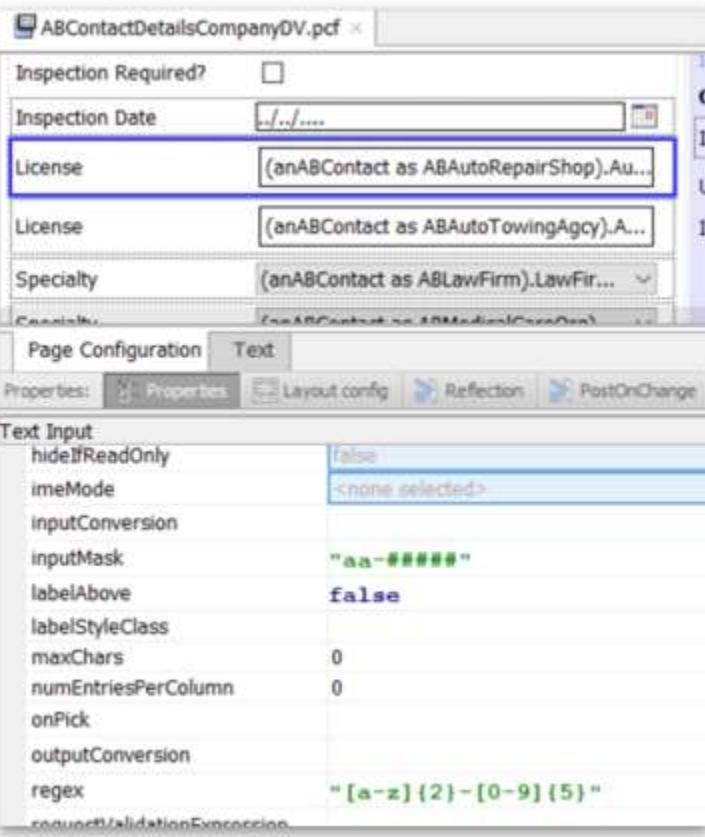
1. Configure the inputMask property of the widget.

- Type "a#-#####" in the inputMask field.



2. Configure the pattern

- Configure the regex property of the widget.



```
"[a-z]{2}-[0-9]{5}"
```

3. Configure the validationExpression property of the widget.

The screenshot shows the APEX page builder interface. A Text Input field is selected, and its properties are being configured. The validationExpression property is set to the following code:

```
(anABContact as ABAutoRepairShop).AutoRepairLicense.contains("777") ? DisplayKey.get("Ext.License777Invalid") :null
```

6.6 Lab Solution: Field-level validation in the Data Model



Solution

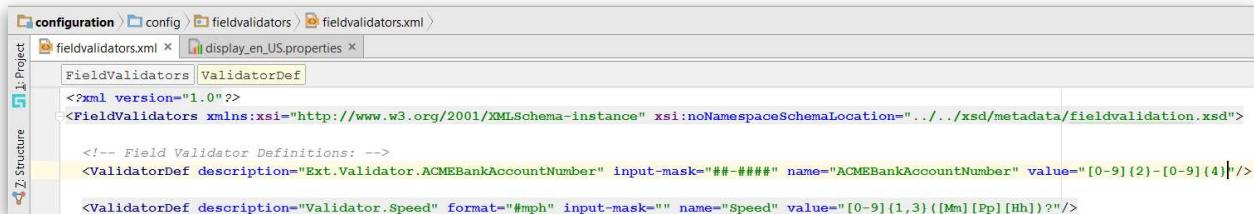
Exact details on how to complete the lab.

1. Create the display key

The screenshot shows the APEX configuration interface. A display key named "display_en_US.properties" is being edited. The contents of the file include validation rules:

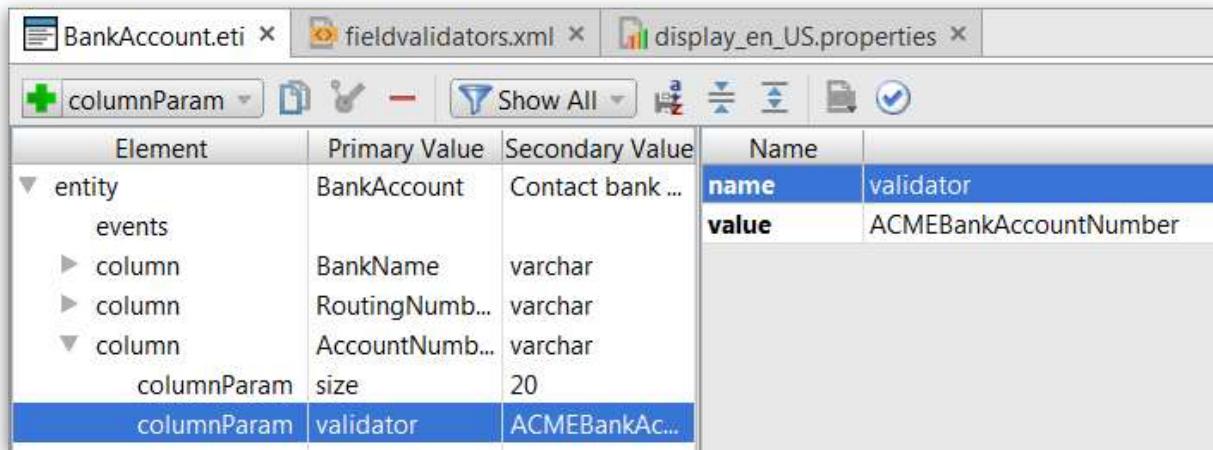
```
Ext.Validator.ACMEPolicyNumber={0} must be a valid policy number. Example: AA-1234567
Ext.Validator.ACMEBankAccountNumber={0} A bank account number must be two numbers, a hyphen, and then four numbers. For example, 12-3456.
Ext.WebAddress=Web Address
```

2. Create a field validator



```
<?xml version="1.0"?>
<FieldValidators xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="../../xsd/metadata/fieldvalidation.xsd">
    <!-- Field Validator Definitions: -->
    <ValidatorDef description="Ext.Validator.ACMEBankAccountNumber" input-mask="#-####" name="ACMEBankAccountNumber" value="[0-9]{2}-[0-9]{4}"/>
    <ValidatorDef description="Validator.Speed" format="#mph" input-mask="" name="Speed" value="[0-9]{1,3} ([Mm] ([Pp] [Hh])) ?"/>
```

3. Associate the field validator with the AccountNumber field of the BankAccount entity



Element	Primary Value	Secondary Value	Name	
entity	BankAccount	Contact bank ...	name	validator
events			value	ACMEBankAccountNumber
▶ column	BankName	varchar		
▶ column	RoutingNumb...	varchar		
▼ column	AccountNumb...	varchar		
columnParam	size	20		
columnParam	validator	ACMEBankAc...		

6.7 Lab Solution: Validation rules



Solution

Exact details on how to complete the lab.

1. Create a new Rule in ABContactValidationRules.



```
ABContactValidationRules.grs x
└─ ABContact Validation Rules
    ├─ Default Validation Rules
    └─ Married Tax Filing Status

USES:
uses gw.api.locale.DisplayKey

CONDITION (aBContact : entity.ABContact):
return aBContact typeis ABPerson
and
(aBContact.TaxFilingStatus == TaxFilingStatusType.TC_MARRIED_JOINT
 or aBContact.TaxFilingStatus == TaxFilingStatusType.TC_MARRIED_SEPARATE
)
and
aBContact.MaritalStatus != MaritalStatus.TC_MARRIED

ACTION (aBContact : entity.ABContact, actions : gw.rules.Action):
    aBContact.rejectField("TaxFilingStatus",
        ValidationLevel.TC_LOADSAVE, DisplayKey.get("Ext.Validation.MarriedTaxFilingStatus"),
        null, null)
END
```

- a) You also have the option to copy and paste it from below. However, it is recommended that you type the code based on the screenshot. **Important:** please make sure that you copy and paste the sections individually without the parts highlighted in a darker gray.

```
USES:
uses gw.api.locale.DisplayKey

CONDITION (aBContact : entity.ABContact):
return aBContact typeis ABPerson
and
(aBContact.TaxFilingStatus == TaxFilingStatusType.TC_MARRIED_JOINT
 or aBContact.TaxFilingStatus == TaxFilingStatusType.TC_MARRIED_SEPARATE
)
and
aBContact.MaritalStatus != MaritalStatus.TC_MARRIED

ACTION (aBContact : entity.ABContact, actions : gw.rules.Action):
    aBContact.rejectField("TaxFilingStatus",
        ValidationLevel.TC_LOADSAVE,
        DisplayKey.get("Ext.Validation.MarriedTaxFilingStatus"),
        null, null)
END
```

2. Add the display key

- a) Open the display.properties file
- b) Add a new entry as listed below:

```
Ext.Validation.MarriedTaxFilingStatus= Married filing jointly/Married filing separately is only  
allowed when contact is married.
```