

## KRA Quali Research Administration : Exercise 7

This page last changed on Jan 25, 2008 by [tdurkin](#).

Update `ProposalDevelopmentDocument.xml` to use the `ProposalDevelopmentDocumentRule` class.

Implement private boolean `processProposalRequiredFieldsBusinessRule(Document document)` in `ProposalDevelopmentDocumentRule`.

- Write an rule to ensure that Project Start Date is not after Project End Date.
- When displayed on the JSP, the Project Start Date field should be highlighted.

Update the JSP to ensure that the error message appears within the Required Fields panel.



### Exercise 7:

Implement a simple Business Rule for the Proposal Development Document.

## Exercise Goal

At the end of this exercise, you should will have implemented a custom business rule. When the rule fails, the user will be notified on the JSP with an error message and the field in error will be highlighted.



The `ProposalDevelopmentDocumentRule` artifact exists and will need to be modified by you.

## Rules Class

### `ProposalDevelopmentDocumentRule`

1. Ensure that Data Dictionary (Size and shape) validation occurs in the `processCustomSaveDocumentBusinessRules` method.
2. Add private method to `ProposalDevelopmentDocumentRule` called `processProposalRequiredFieldsBusinessRule` which returns a boolean
3. Implement the following rule:
  - "The Project Start Date must be before the Project End Date"
4. Use `KeyConstants.ERROR_START_DATE_AFTER_END_DATE` for your error message text.

## Configure `KeyConstants` and `ApplicationResources.properties`

1. Make sure the error message referenced in `KeyConstants.class` exists in Application Resources.
2. Configure your error message to use the DD labels in the rendered error message (using token replacement in the message).

## Data Dictionary Configuration Files

`org.kuali.kra.datadictionary.ProposalDevelopmentDocument.xml`

1. Set Business Rules class appropriately (the one where you implemented the business rule)

## Web artifacts: `proposalDevelopmentRequiredFields.tag`

1. Tell your .tag file to render the error message in the appropriate panel.

## Try it out!

1. Start your web app. You should be able to navigate to the Proposal Development Document and test the rule you created.