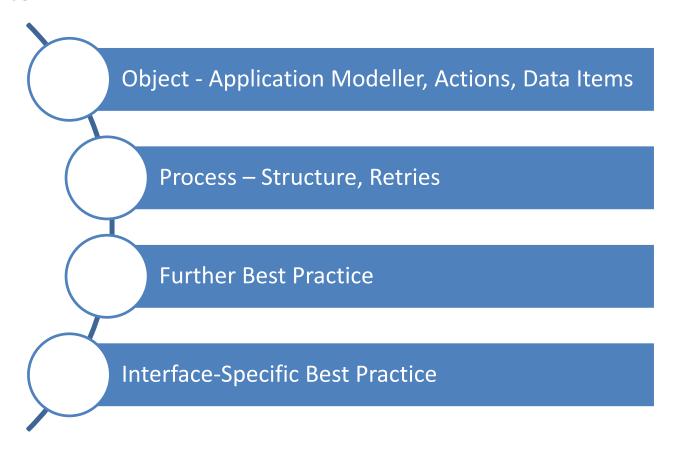


Delivery Methodology Development Best Practice

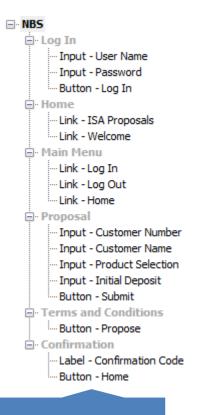
Development Best Practice

Contents





Object – Application Modeller



Adheres to local naming convention

Typically this is {element type} – {element name} e.g. Button – Submit Input – Account Number List – Products

Logically Laid Out

Create sections for each part of the screen. Makes support easier and mitigates the risk of incorrect elements being re-spied

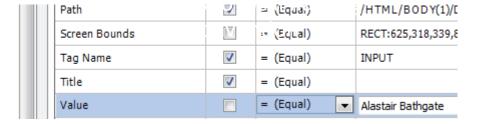


Object – Application Modeller

- Input Customer Number
- Input Customer Name
- · Input Product Selection
- Input Initial Deposit
- ·Button Submit

rms and Conditions

·Button - Propose



No customer data

Customer data captured within element attributes could breach data security.

No environment specific data

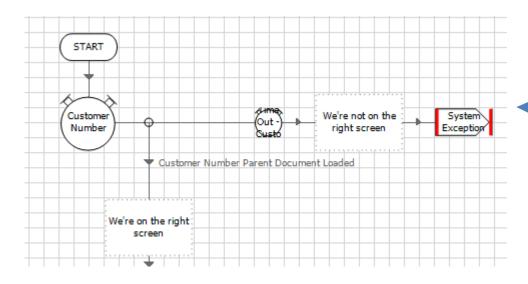
Environment specific data will cause the process to fail when migrated. If required make the value dynamic.

	Match Reverse		= (Equal)	True
	Parent URL	V	= (Equal)	http://UAT.nationalbank.com/proposal.html?ctl00%
	Path	V	= (Equal)	/HTML/BODY(1)/DIV(3)/DIV(1)/TABLE(2)/TBODY(1)/



Wait stage at start of each action

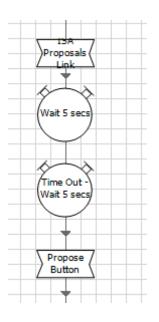
This will confirm the process is on the correct path and absorb system latency to increase the resilience of the process.



Always throw exception on timeout

Do not try and recover the process following the wait stage. Throw the exception and let the process handle it. The process may choose to try again a few times or restart the system or ultimately raise an alert.





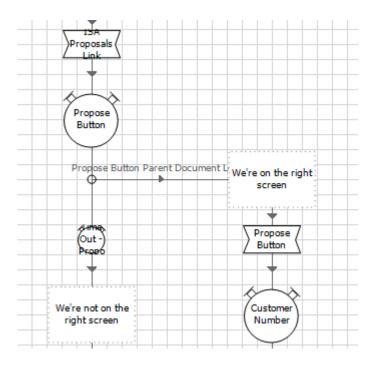
Avoid using arbitrary waits

Arbitrary waits should only be used if a screen change cannot be waited for.

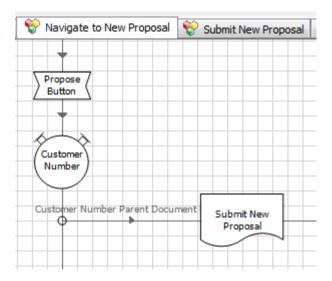
Always wait for the screen to change

Use wait stages after Navigate stages or any stage that causes the screen to update.

This will absorb any latency but also ensure the process runs at its fastest. In this example there's no point waiting 5 seconds if the system is available after 1.







Do not call published actions from within an object

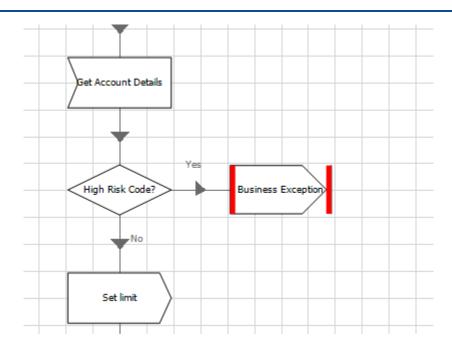
Here the process should call the "Navigate to New Proposal" action and then call the "Submit New Proposal" action.

This will makes exception handling far easier and actions more reusable.



Do not make business decisions in the object

In this example our action gets account details from the screen and applies a new limit unless the risk codes are of a specific value.



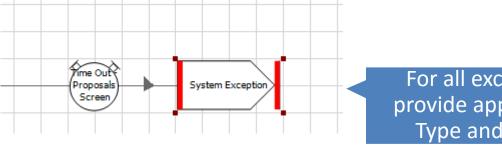
The object design should be such that there are two actions not one. One action to "Get Account Details" that returns all the account details on the screen and another action to "Apply new limit".

The decision to apply a new limit based on the risk code should be made by the process not the object.

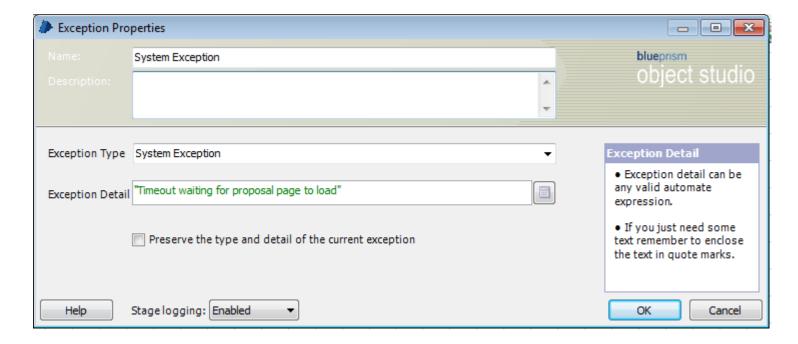
This enables other processes to call the "Get Account Details" action without applying a new limit.







For all exceptions provide appropriate Type and Detail





Provide descriptions to Inputs, Outputs and Actions

This removes ambiguity and also provides content for auto-generated Business Object Definition (BOD) document.

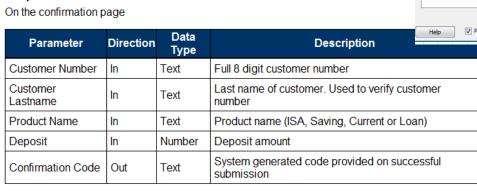
1.8 Submit New Proposal

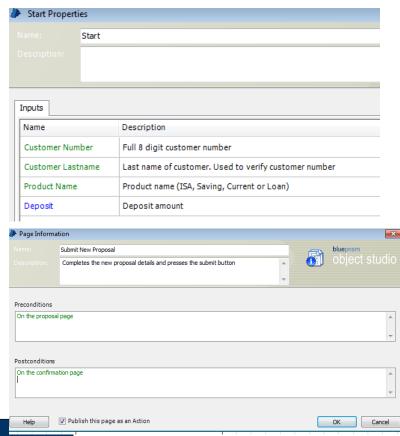
Completes the new proposal details and presses the submit button

Preconditions:

On the proposal page

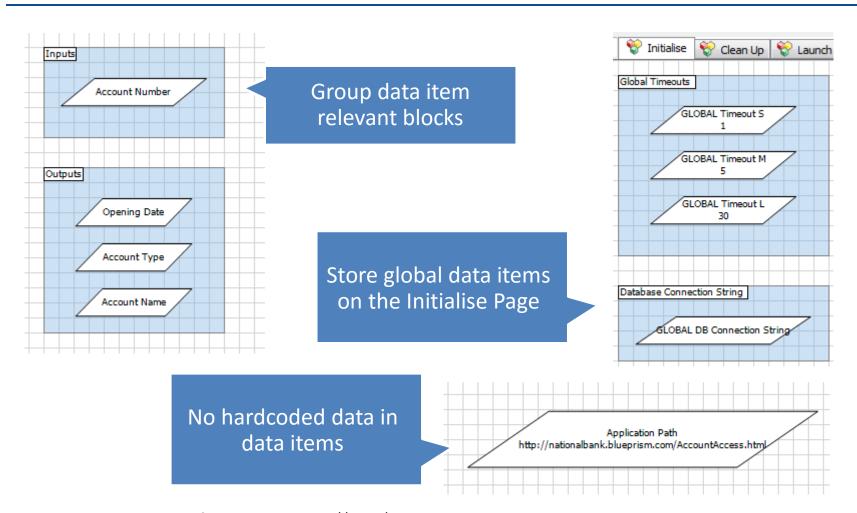
Endpoint:







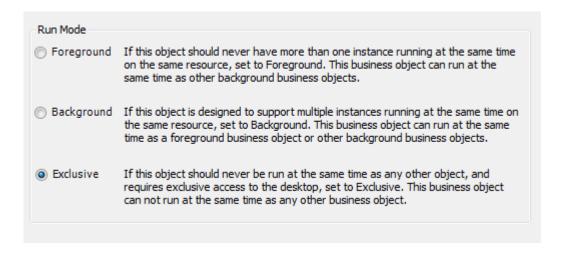
Objects – Data Items



Use input parameters and have the process provide the values. If need be, the process can consume an environment variable for parameters that may change.



Objects - Exposure



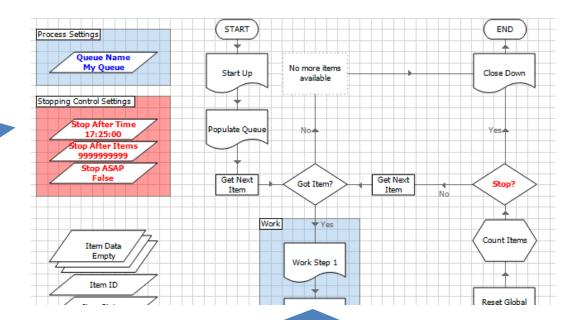
Always set an objects exposure



Process - Structure

Use standard Blue Prism templates or templates provided by the local design authority

The standard logic of the templates enables familiarity that makes support easier.



Main page should contain high level process steps

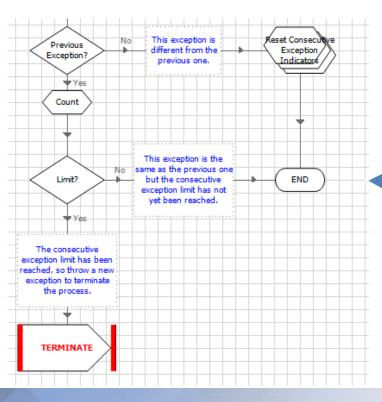
All process detail and decision should be divided into logical sub pages



Process- Retries

Correct use of retries

If the work queue permits retry system exceptions. Do not retry business exceptions (see Basic Template)



Retry Exception? Tag Item Business Exception Tag Item Business Exception Tag Item Business Exception Mark Exception Mark Exception Mark Exception

Check for consecutive system exceptions

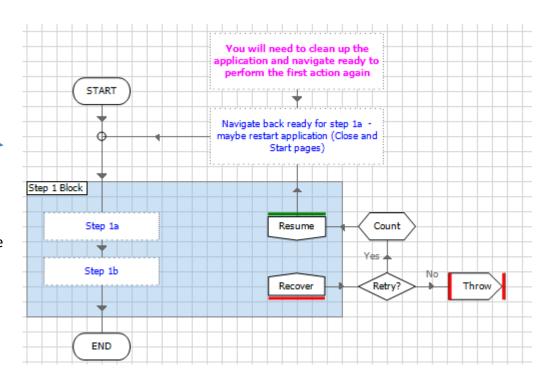
The same system exception across consecutive cases could be a sign that the system has changed. (see Basic Template)



Process - Retries

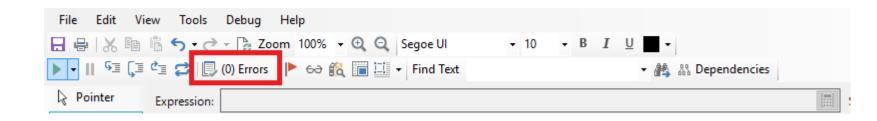
Correct use of retries

Where possible retry system exception within the process. This may require special navigation or even a restart of the system

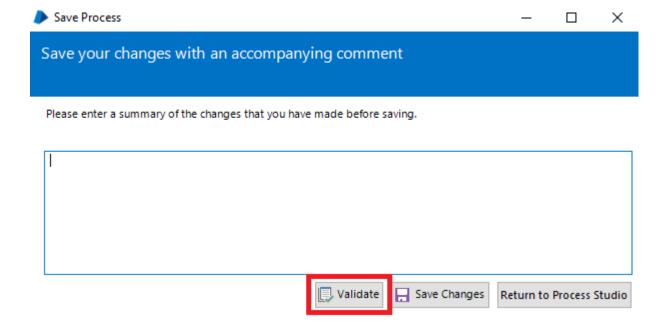




Further Best Practice



Always check for errors or validate when saving.



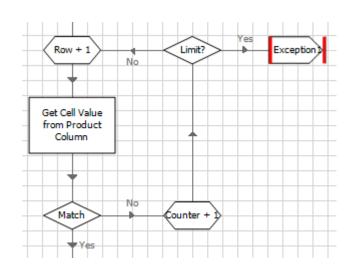


Further Best Practice

Manufactured Loops have defence mechanism

When creating your own loops always create a counter and throw an exception if an excessive limit is reached.

This will prevent the flow ever entering an infinite loop.



Stage logging:



Don't log parameters on this stage

Text

Stage logging adheres to local design control

Avoid use of drive letters when referencing folders

Data Type
Initial Value
Exposure

\\SERVERNAME\shraedfolder\spreadsheet.xlsx

Environment - Read the corresponding Environment Variable from System Manager



Interface-Specific Best Practice

