



In this recipe, we will see how to implement a simple recovery mechanism that is integrated with the controller (described previously and that utilizes the same design pattern used for the regular actions implement recovery procedures.

## **Getting ready**

Add an Environment variable to the test. Name it ERR\_DEFAULT and s its value to StopRunSession. Add another Environment variable nam-ERR\_9 and set its value to ClearError. Create a function library nam cls.EventHandler.vbs in the Lib folder, as already described in the previous recipe.

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## How to do it...

The following code shows a sample procedure implemented as an Action. The StopRumSession class is used in our framework to handle an exception by stopping the run session, and it is used as default. Write the following code in the cls\_EventBandler\_vbs function library:

```
Class StopBundession

Reusable Action: StopRundession

Description: Stops the run in case of an unhandled error/exception

Public Status

Public Status

Public Steration

Public Steration

Public Details

Public Public Public Public Beaution

Public Management Status

Public Public
```

The procedure was built based on the same command wrapper pattern as the regular reusable Actions. The procedure will be invoked any time by the RunMappedProcedure method (shown in the following code snippet) of the EventHandler class, which will not find a matching procedure for a given error code.

Note that in this sample implementation, the value of the procedure associated with the error number is taken from the environment, but more elaborate design patterns could have been mapped into an XML file or DB:

```
Class Denetlandier

Function RundappedProcedure (ByVal strError)
Dim ofForedare

'--- Try to execute the procedure associated with the error (if exists)

If detClassInstance(ofrocedure, Environment(FER)_* & CStr(Abs(str
RundappedProcedure = ofForedare, Run

Ent Function

End If

'--- Try to execute the default procedure to handle errors (if exists)

If decClassInstance(ofForedare, Environment(*DEFAULT_ERROR_HANDLE
RundappedFrocedure = ofForedare, Run

Ent Function

End If
End Punction

End Class

A
```

The following code shows another sample procedure implemented as an Action. It is used in our test automation framework to handle a specific exception by clearing the error, and the procedure is mapped to error code number 9 (Subscript out of range). This can be written in the cls.EventHandler.vbs function library file, as follows:

```
Cleas ClearError

' Remable Action: ClearError

' Description: ClearError

' Description: Clear the error in case of an unhandled error/excepti

Public Status

Public Status

Public Details

Public Punction Run()

me.Details "Ended with "

me.Status.[=]0

'--- Report

Call ReportActionStatus(me)

'--- Clears the error

Err.Clear

End Function

Private Sub Class Initialize

Call InfoClassInstance(me, C CGN LOADED MSG)

Set me.Status = (As Num](0)

Rod Sub

Private Sub Class Terminate

Call InfoClassInstance(me, C CGN UNLOADED MSG)

Set me.Status = Withing

End Sub

End Class

Action Status = Nothing

End Sub

End Class

Action Status = Nothing

End Sub

End Class
```

#### How it works...

When the controller tries to execute the Action, it sets a kind of trycatch mechanism with On Error Resume Next, as shown here:

So if an error occurs, it will be passed to ErrorHandler via the RunMappedProcedure method, and it will use either the specifically defined procedure for the error or the default procedure. This ensures that no exceptions will be left unhandled.



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