**R2/R3 Refactoring Steps**

Following are the steps required to convert all the cshtml files to point to GlobalLayout which is one centralized layout moving forward.

The refactoring is performed in a two-step procedure.

1. Running Automated Script
2. Manual intervention.

Below is the detailed description of what major steps are involved in refactoring. Note that the steps that are automated with script are marked with “Auto”.

Due to a lot of discrepancy the scripts doesn’t cover all of the steps and hence require manual work to take care of rest of steps.

Below the table are also the screenshots marked with most of step numbers on what areas you should expect to be affected by the refactoring.

**Running the script**

The script tool is cleverly designed to refactor the steps (marked “Auto”) and output the log files on which information is available in regards to what files executed the script on which steps and what files failed to execute the script.

The tool is a command line tool and take directory path as an argument which contains all the cshtml files in the code base. It recursively goes through each child folder and perform refactoring.

**cmd.exe “path to code base”**

Eg. cmd.exe “C:\Dev\trunk\.....\codebase”

Running this tool will generate Logs folder in the same base directory where the script is run from.

Two files are generated:

refactor\_log – This file contains information to which steps were performed on which files giving an idea of what areas of changes do you

expect to get affected.

Eg:

2017-02-09 14:08:13.4852|INFO|infoLog|Step\_2\_C:\Dev\......\Partials\\_AccountSet.cshtml

2017-02-09 14:08:15.4893|INFO|infoLog|Step\_3\_ C:\Dev\......\Partials \\_AccountSet.cshtml

2017-02-09 14:08:17.2981|INFO|infoLog|Step\_3\_ C:\Dev\......\Partials \\_AccountSet.cshtml

2017-02-09 14:08:18.3204|INFO|infoLog|Step\_11\_ C:\Dev\......\Partials \\_AccountSet.cshtml

refactor\_error\_log – This file contains information to which steps failed to perform on which files giving an idea of which files will be broken

in what areas.

Eg:

2017-02-09 14:09:42.3165|ERROR|errorLog|Step\_3\_C:\DevCopyBeforeRefactoring\_DONOTRESETDEV\Columbus-AP\AP\Views\OptionalField\Partials\\_OptionalField.cshtml

Tip: For error files please take a look at all steps in general making sure none of the other steps are broken for that screen.

**Limitations**

While the script covers most of the steps please pay close attention to steps 4 and 9 which are highly important in regards to label-menus.

Most of the label menus are also java script dependent making us difficult to automate it, hence it is important that while manually refactoring Step 4, pay close attention to which enable/disable classes is it pointing to hence making sure the class definition exists in the refactored code as well.

Eg:

@Html.SageLabelFor(m => m.Data.BatchNumber, new { })   
 @Html.KoSageAnchor("#", APCommonResx.Details, new { }, new { @id = "lbBatchDetail", @class = "label-link disabled" })

To

@Html.SageLabelForWithHamburger(m => m.Data.BatchNumber, new { }, "#", null, null, new { @id = "lbBatchDetail", @class = "label-link disabled", @title = APCommonResx.Details })

Refatoring Steps

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Steps** | **Files** | **Description** | **Original** | **Change** |
| 1  AUTO | Index.cshtml | Apply R3 layout (change LocalizedLayout, LocalizedLayoutR2 and LocalizedLayoutR3 to GlobalLayout) | Layout = Shared.LocalizedLayout; Layout = Shared.LocalizedLayoutR2; or Layout = Shared.LocalizedLayoutR3; | Layout = Shared.GlobalLayout; |
| 2  AUTO | Partial files | Form container class {change .container\_16 to .form-screen to the wrapper div of each partial files) | <div class="container\_16"> | <div class="form-screen"> |
| 3  AUTO | Partial files | Form header section  (change header section HTML as 'Change' column) | <section class="header-group">  @Html.SageHeader3Label("AccountSetHeader", AccountSetsResx.Entity)  @if (Model.UserAccess.SecurityType.HasFlag(SecurityType.Modify))  {  @Html.KoSageButton("btnNew", null, new { @value = CommonResx.CreateNew, @id = "btnNew", @class = "btn-primary" })  }  @Html.Partial(Core.OptionsMenu, Model.UserAccess)  </section>  <section class="required-group">  @Html.SageLabel("AccountSet\_RequiredLegend",CommonResx.RequiredLegend, new { @class = "required" })  </section> | <header>  <section class="header-group-1">  <div class="header-wrapper">  <div class="header-headline">  @Html.SageHeader3Label("AccountSetHeader", AccountSetsResx.Entity)  </div>  @Html.Partial(Core.OptionsMenu, Model.UserAccess, new ViewDataDictionary { { OptionsMenu.EnableBinding, true } })  <div class="header-view-options">  @Html.SageButton("simpleEntry", new { @id = "simpleEntry", @class = "icon btn-view btn-view-simple no-active", @title = CommonResx.Simple, @tabindex = "-1" })  @Html.SageButton("expandedEntry", new { @id = "expandedEntry", @class = "icon btn-view btn-view-expand no-active", @title = CommonResx.Expanded, @tabindex = "-1" })  </div>  <div class="header-options">  @Html.KoSageButton("btnNew", null, new { @value = CommonResx.CreateNew, @id = "btnNew", @class = "btn btn-primary" })  </div>  </div>  <div class="flag-required">  @Html.SageLabel("AccountSet\_RequiredLegend",CommonResx.RequiredLegend, new { @class = "required" })  </div>  </section>  </header> |
| 4  MANUAL | Partial files | Label menu (Hamburger icon) | @Html.SageLabelFor(m => m.Data.BatchNumber)  @Html.SageHamburger("#", null, new { @sagedisable = "Data.IsDisableBatchInfo" }, new { @id = "lnkHamburgerAdjustmentEntry" }) | @Html.SageLabelForWithHamburger(m => m.Data.BatchNumber, null, "#", null, new { @sagedisable = "Data.IsDisableBatchInfo" }, new { @id = "lnkHamburgerAdjustmentEntry" }) |
| Label menu (case #2) | @Html.SageLabelFor(m => m.Data.BatchNumber, new { })  @Html.KoSageAnchor("#", APCommonResx.Details, new { }, new { @id = "lbBatchDetail", @class = "label-link disabled" }) | @Html.SageLabelForWithHamburger(m => m.Data.BatchNumber, new { }, "#", null, null, new { @id = "lbBatchDetail", @class = "label-link disabled", @title = APCommonResx.Details }) |
| Label menu (case #3) | @Html.SageLabel("lblCurrency", OECommonResx.Currency)  @Html.SageHamburger("#", null, null, new { @id = "lnkBankRate" }) | <div class="label-with-menu">  @Html.SageLabel("lblCurrency", OECommonResx.Currency)  @Html.SageHamburger("#", null, null, new { @id = "lnkBankRate" }) </div> |
| 5  AUTO | Grid files | Grid control buttons | @Html.KoSageButton("btnShipmentAddDetail", new { @sagedisable = "Data.isControlsDisabledOnReadMode" }, new { @value = CommonResx.AddLine, @id = "btnShipmentAddDetail", @class = "icons btn-add" }) | @Html.KoSageButtonNoName(CommonResx.AddLine, null, new { @id = "btnShipmentAddDetail", @class = "btn btn-default btn-grid-control btn-add " }) |
| @Html.KoSageButton("btnShipmentDeleteDetail", new { @sagedisable = "Data.isControlsDisabledOnReadMode" }, new { @id = "btnShipmentDeleteDetail", @class = "icons btn-delete", value = CommonResx.DeleteLine }) | @Html.KoSageButtonNoName(CommonResx.DeleteLine, new { @sagedisable = "Data.isControlsDisabledOnReadMode" }, new { @id = "btnShipmentDeleteDetail", @class = "btn btn-default btn-grid-control btn-delete " }) |
| @Html.KoSageButton("btnShipmentEditColumns", null, new { @id = "btnShipmentEditColumns", @class = "icons btn-edit", @value = CommonResx.EditColumns }) | @Html.SageButtonNoName(CommonResx.EditColumns, new { @id = "btnShipmentEditColumns", @class = "btn btn-default btn-grid-control btn-edit-column" }) |
| @Html.KoSageButton("btnRefresh", null, new { @id = "btnRefresh", @class = "icons btn-refresh", @value = CommonResx.Refresh }) |  |
| 6  AUTO | Partial files | Check-box container <div> (change .contols-group to .ctrl-group and delete .no-label) | <div class="controls-group >, <div class="chk-group-1 > | <div class="ctrl-group > |
| <div class="ctrl-group no-label">, <div class="control-group no-label"> | <div class="ctrl-group > |
| 7  AUTO | Partial files | Comments box (add .xlarge to .textarea-group <div>) | <div class="textarea-group"> | <div class="textarea-group xlarge"> |
| 8  PARTIAL AUTO  (Only the update to wrapper group is automated) | Totals files | Total box (add .clearfix to .wrapper-group <div> and change .box-group/box-group-1 to .totals-group. No need to have .half-width, .w440 or .w460) | <div class="wrapper-group">  <div class="box-group-1 left half-width">  <table> …</table>  </div>  <div class="right half-width">…</div> </div> | <div class="wrapper-group clearfix">  <div class="totals-group left">  <table> …</table>  </div>  <div class="left">…</div> </div> |
| Total box (case #2) | <div class="wrapper-group">  <div class="box-group left w440">  <table> …</table>  </div>  <div class="right half-width">…</div> </div> | <div class="wrapper-group clearfix">  <div class="totals-group left">  <table> …</table>  </div>  <div class="left">…</div> </div> |
| 9  Manual | Partial files | Tables (change .staticgrid to .table table-bordered table-striped to <table>) | <div class="staticgrid-group">  <table class="staticgrid firstcol-styling">  <tbody>  <tr>  <th>...</th>  </tr>  </tbody>  </table> </div> | <div class="staticgrid-group"> <table class="table table-bordered table-striped">  <thead>  <tr>  <th>...</th>  </tr>  </thead>  <tbody>  <tr>  <td>...</td>  </tr>  </tbody>  </table> </div> |
| 10  PARTIAL AUTO  (First part is automated) | Partial files | Year-Period box (change .seperator to .separator the remove .w45 to the rightbox) | <div class="fiscal-group">  @Html.SageLabel("lblLablYearPeriod", AccountsResx.PeriodEnding)  @Html.KoSageTextBoxFor(model => model.Data.FiscalYear, new { @value = "Data.FiscalYear" }, new { @class = "leftbox ", @disabled = true })  @Html.SageTextBox("txtHyphen", "-", null, new { @class = "seperator", @tabindex = "-1", @disabled = true })  @Html.KoSageTextBoxFor(model => model.Data.FiscalPeriod, new { @value = "Data.FiscalPeriod" }, new { @class = "txt-upper rightbox w45", @disabled = true })  @Html.KoSageButton("btnFiscalCalendar", new { @disable = "Data.IsDisable" }, new { @id = "btnFiscalCalendar", @class = "icon btn-fiscal-picker", @tabindex = "-1" }) </div> | <div class="fiscal-group">  @Html.SageLabel("lblLablYearPeriod", AccountsResx.PeriodEnding)  @Html.KoSageTextBoxFor(model => model.Data.FiscalYear, new { @value = "Data.FiscalYear,valueUpdate: ['afterkeydown']", @disable = "Data.IsDisable" }, new { @class = "leftbox", @formatTextbox = "numeric" })  @Html.SageTextBox("txtHyphen1", "-", null, new { @class = "separator", @tabindex = "-1", @disabled = true })  @Html.KoSageTextBoxFor(model => model.Data.FiscalPeriod, new { @value = "Data.FiscalPeriod, valueUpdate: ['afterkeydown']", @disable = "Data.IsDisable" }, new { @class = "txt-upper rightbox" })  @Html.KoSageButton("btnFiscalCalendar", new { @disable = "Data.IsDisable" }, new { @id = "btnFiscalCalendar", @class = "icon btn-fiscal-picker", @tabindex = "-1" }) </div> |
| Text field with separator (the containter div must be .misc-group) | <div class="fiscal-group">  @Html.SageLabelFor(m => m.Data.JournalEntry.SourceLedger, new { @class = "required" })  @Html.KoSageTextBoxFor(m => m.Data.JournalEntry.SourceLedger, new { @value = "Data.JournalEntry.SourceLedger" }, new { @placeholder = GLCommonResx.SourceLedgerMask, @disabled = true, @class = "leftbox" })  @Html.SageTextBox("txtHyphen2", "-", null, new { @disablJournalEntryCreditsPlaceholdered = true, @class = "seperator", @tabindex = "-1", @disabled = true })  @Html.KoSageTextBoxFor(m => m.Data.JournalEntry.SourceType, new { @sagevalue = "Data.JournalEntry.SourceType, valueUpdate: ['afterkeydown']", @disable = "Data.IsDisable" }, new { id = "txtJournalBatchSourceType", @class = "txt-upper rightbox w45", @disabled = true })  @Html.KoSageButton("btnSourceTypeGet", new { @disable = "Data.IsDisable" }, new { @id = "btnSourceTypeGet", @disabled = true, @class = "icon btn-go", @tabindex = "-1" })  @Html.KoSageButton("btnSourceCodeSearch", new { @disable = "Data.IsDisable" }, new { @id = "btnSourceCodeSearch", @class = "icon btn-search", @tabindex = "-1" }) </div> | <div class="misc-group">  @Html.SageLabelFor(m => m.Data.JournalEntry.SourceLedger, new { @class = "required" })  @Html.KoSageTextBoxFor(m => m.Data.JournalEntry.SourceLedger, new { @value = "Data.JournalEntry.SourceLedger" }, new { @placeholder = GLCommonResx.SourceLedgerMask, @disabled = true, @class = "leftbox" })  @Html.SageTextBox("txtHyphen2", "-", null, new { @disablJournalEntryCreditsPlaceholdered = true, @class = "separator", @tabindex = "-1", @disabled = true })  @Html.KoSageTextBoxFor(m => m.Data.JournalEntry.SourceType, new { @sagevalue = "Data.JournalEntry.SourceType, valueUpdate: ['afterkeydown']", @disable = "Data.IsDisable" }, new { id = "txtJournalBatchSourceType", @class = "txt-upper rightbox", @disabled = true })  @Html.KoSageButton("btnSourceTypeGet", new { @disable = "Data.IsDisable" }, new { @id = "btnSourceTypeGet", @disabled = true, @class = "icon btn-go", @tabindex = "-1" })  @Html.KoSageButton("btnSourceCodeSearch", new { @disable = "Data.IsDisable" }, new { @id = "btnSourceCodeSearch", @class = "icon btn-search", @tabindex = "-1" }) </div> |
| 11  AUTO | Partial files | Buttons | @Html.KoSageButton("btnSave", new { @sagedisable = "Data.IsDisableSaveButton", @sagevisible = "Data.IsVisibleControl" }, new { @id = "btnSave", @value = CommonResx.Save, @class = "btn-primary" }) | @Html.KoSageButton("btnSave", new { @sagedisable = "Data.IsDisableSaveButton", @sagevisible = "Data.IsVisibleControl" }, new { @id = "btnSave", @value = CommonResx.Save, @class = "btn btn-primary" }) |
| 12  AUTO | Partial files | Checkbox as a label | <div class="numeric-group with-checkbox"> | <div class="input-group with-checkbox"> |
| <div class="go-group with-checkbox"> | <div class="input-group with-checkbox"> |
| 13  AUTO | Partial files | Input box with no label | <div class="input-group no-label"> | <div class="input-group"> |
| 14  AUTO | Partial files | Input box with align-right | @Html.KoSageNumericBoxFor(model => model.Data.NumberOfLabels, new { @sagevalue = "Data.NumberOfLabels", @sagedisable = "AttributesHeader.NumberOfLabels" }, new { @class = "default align-right kendonumeric" }) | @Html.KoSageNumericBoxFor(model => model.Data.NumberOfLabels, new { @sagevalue = "Data.NumberOfLabels", @sagedisable = "AttributesHeader.NumberOfLabels" }, new { @class = "default numeric kendonumeric" }) |
| @Html.KoSageTextBoxFor(model => model.Data.ExtendedWeight, new { @sagevalue = "Data.ExtendedWeight" }, new { @class = "default align-right", @disabled = true }) | @Html.KoSageTextBoxFor(model => model.Data.ExtendedWeight, new { @sagevalue = "Data.ExtendedWeight" }, new { @class = "default numeric", @disabled = true }) |
| @Html.KoSageTextBoxFor(model => model.Data.BatchNumber, new { @sagevalue = "Data.BatchNumber" }, new { @class = "smaller align-right", @formatTextbox = "numeric", @maxlength = "9" }) | @Html.KoSageTextBoxFor(model => model.Data.BatchNumber, new { @sagevalue = "Data.BatchNumber" }, new { @class = "smaller numeric", @formatTextbox = "numeric", @maxlength = "9" }) |
| 15  Manual | Partial files | Grid control section | <section class="gridcontrols-group clearfix"></section> | <div class="gridcontrols-group clearfix"></div> |
| 16  AUTO | Partial files | Delete .left in <label> tag | @Html.SageLabel("PaymentEntry\_OptionalFields",CommonResx.OptionalFields, new { @for = "chkOptionalFields", @class = "left disabled" }) | @Html.SageLabel("PaymentEntry\_OptionalFields",CommonResx.OptionalFields, new { @for = "chkOptionalFields", @class = "disabled" }) |
| 17  Manual | Partial files | Multilist control | @Html.KoSageButton("btnInclude", null, new { @id = "btnInclude", @class = "icons btn-include", @value = CommonGLIntegrationResx.BtnInclude }) | @Html.SageButtonNoName(CommonGLIntegrationResx.BtnInclude, null, new { @id = "btnInclude", @class = "bbtn btn-default btn-arrow btn-arrow-f" }) |
| @Html.KoSageButton("btnExclude", null, new { @id = "btnExclude", @class = "icons btn-exclude", @value = CommonGLIntegrationResx.BtnExclude }) | @Html.SageButtonNoName(CommonGLIntegrationResx.BtnExclude, null, new { @id = "btnExclude", @class = "bbtn btn-default btn-arrow btn-arrow-b" }) |
| @Html.KoSageButton("btnAll", null, new { @id = "btnAll", @class = "icons btn-include", @value = StatementsLettersLabelsResx.All }) | @Html.SageButtonNoName(StatementsLettersLabelsResx.All, null, new { @id = "btnAll", @class = "bbtn btn-default btn-arrow btn-arrow-ff" }) |
| @Html.KoSageButton("btnNone", null, new { @id = "btnNone", @class = "icons btn-include", @value = StatementsLettersLabelsResx.None }) | @Html.SageButtonNoName(StatementsLettersLabelsResx.None, null, new { @id = "btnNone", @class = "bbtn btn-default btn-arrow btn-arrow-bb" }) |









