

**<21/SP-COP-2800-55633> Java Programming**

**<Assignment 1-1>**

Document Version: 0.1

Version Date: <September 21, 2021>

Created By: <Francis Fiskey>

**Delete and Replace all red and <Example> text when submitting this document.**

# Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Author | Rationale |
| 0.1 | 2022 JAN 9 | Francis Fiskey | First Draft |

# Document Purpose

<Define the purpose of this document and use the below example when doing so. The Document purpose should only be 1 paragraph and simple enough for the Business to understand what you are attempting to convey.>

<**Example:** The purpose of this document is to define the current setup for Dynamic Pages within the Web Application as well as discuss how to create and maintain dynamic pages within the Web Application.>

# Technical Specifications

## Purpose of Technical Implementation

<Explain the purpose of the code you have written. What is the code supposed to do? >

<**Example**: The purpose of this implementation is to provide a quick and efficient way to update pages without the need for a “full” build to Production. Deploying a new “build” to production can represent a large time loss when critical updates to front end pages is required.>

## Technical Implementation Components

<Explain the components of your implementation, this means you classes which are created and what each class, and method is supposed to do>

<**Example**: Each dynamic page has a corresponding entry in the Seed() located in the EntityFramework project. The Seed() updates the HLPR\_PageContent table within the DICPSubmit Db

* DICPSubmitData > Migrations > Configuration.cs > Seed()

## Technical Implementation Pseudocode

<Write pseudocode that explains your code in plain language steps*>*

<**Example:**

*Present User with Login*

*Log user in based on credentials provided*

*If credentials are incorrect:*

*Present window to user to attempt login again as Login credentials were invalid*

*Else:*

*Log User in and present home page*

*>*

## PageBuilderService Implementation

<Explain what the code component is supposed to do. Don’t be afraid to make multiple sections with “Implementation” examples and explanation if required. For example, if this is a Hello World application, use each method and or class as a section – *please change the header to match what you are explaining in this section>*

<**Example**: The PageBuilderService.cs contains one private method which handles reading from EF the proper page based on the PageName in the ASPX header being passed as a parameter.

The PageBuilderService.cs passes the value from SQL to the DICPSubmitBasePage which will further process the JSON value retrieved from the PageBuilderService into a dictionary which can then be read dynamically and inserted into the page for rendering.>

## Implementing a Dynamic page

<If a more detailed explanation is warranted do so here. This is a more detailed extension of the previous section and further explains the details of what is happening in the code. In this section, you should add code snippets to further explain what you are trying to do and how it works in your application – *please change the header to match what you are explaining in this section* >

**\*\*\*Important\*\*\* If this section is not required, please delete**

<**Example:** Each page is elementally uniform as it is mocked up by the Web Designer. Before implementation, ensure the page is compliant with the HRSA styles which are implemented within the application.

To implement a Dynamic page, the steps are as follows:

1. Format HTML into a string using a document processor such as Notepad++. Ensure the string has no double quotes (“) – if it does, replace those with single quotes (‘)

**Example of formatted HTML String:**

\"<div class='grid-col-12'><div class='region region-breadcrumb'><div id='block-hrsa-breadcrumbs' class='settings-tray-editable block block--provider-system block--id-system-breadcrumb-block' data-drupal-settingstray='editable'><div class='block\_\_content'><span id='system-breadcrumb' class='visually-hidden'>Breadcrumb</span><ol class='add-list-reset uswds-breadcrumbs uswds-horizontal-list usa-breadcrumb\_\_list-item'><li><a href='Landing'>Home</a> </li><li>About Us</li></ol></div></div></div><div class='region region-highlighted'><div data-drupal-messages-fallback='' class='hidden'></div></div></div></div><div class='grid-row grid-gap'><div class='tablet:grid-col-12 usa-prose'><div class='region region-content'><div id='block-hrsa-page-title' class='block block--provider-core block--id-page-title-block'><div class='block\_\_content'><h1 class='uswds-page-title page-title'><span class='field field--name-title field--type-string field--label-hidden'>About the Injury Compensation Programs</span></h1></div></div><div id='block-hrsa-content' class='block block--provider-system block--id-system-main-block'><div class='block\_\_content'><article role='article' about='/about-us' class='node node--type-hrsa-main-landing-page node--display-mode-full'><div class='node\_\_content'><div class='clearfix text-formatted field field--name-body field--type-text-with-summary field--label-hidden'><div class='field\_\_item'><p>Two of our programs give individuals a streamlined system for compensation for their injuries.</p><h2>National Vaccine Injury Compensation Program (VICP)</h2><p><a href='https://www.hrsa.gov/vaccine-compensation/index.html' target='\_blank'>VICP</a> compensates people injured by certain vaccines given routinely to children and adults. These include the seasonal flu vaccine, measles, mumps, rubella or polio.</p><p>COVID-19 vaccines are covered countermeasures under the Countermeasures Injury Compensation Program (CICP), not the National Vaccine Injury Compensation Program.</p><h2>Countermeasures Injury Compensation Program (CICP)</h2><p><a href='https://www.hrsa.gov/cicp/' target='\_blank'>CICP</a> compensates individuals for serious physical injuries or deaths from pandemic, epidemic, or security countermeasures.</p><p>This includes COVID-19 medical countermeasures, such as COVID-19 vaccines, antivirals, drugs biologics, diagnostic, respiratory protective devices and other devices used to diagnose, mitigate, prevent, treat or cure COVID-19, identified in declarations issued by the Secretary of the U. S. Department of Health and Human Services. </p></div></div><div class='field field--name-field-hrsa-date-last-reviewed field--type-datetime field--label-inline'><div class='field\_\_label'>Date Last Reviewed:</div><div class='field\_\_item'><time datetime='2020-12-15T12:00:00Z' class='datetime'>August 2021</time></div></div></div></article></div></div></div></div>\"

1. Add HTML string to Seed() as new HLPR\_PageContent() entry
   1. Use a previous entry as a reference
   2. The entry will be in JSON format and read from JSON when the PageBuilderService passes the value to the DICPSubmitBasePage
   3. The JSON string contains 4 properties that are important to the generalization of the PageBuilderService.cs The properties that are integral to making the PageBuilderService recognize the proper records are as follows:
      1. *body* contains the HTML string
      2. *alias* contains the alias name of the Web Page in the event the team wants to update the Page Name when it is rendered.

**Example of JSON String:**

"{ entity: 'div', alias: 'About Us', body: \"<div class='grid-col-12'><div class='region region-breadcrumb'><div id='block-hrsa-breadcrumbs' class='settings-tray-editable block block--provider-system block--id-system-breadcrumb-block' data-drupal-settingstray='editable'><div class='block\_\_content'><span id='system-breadcrumb' class='visually-hidden'>Breadcrumb</span><ol class='add-list-reset uswds-breadcrumbs uswds-horizontal-list usa-breadcrumb\_\_list-item'><li><a href='Landing'>Home</a> </li><li>About Us</li></ol></div></div></div><div class='region region-highlighted'><div data-drupal-messages-fallback='' class='hidden'></div></div></div></div><div class='grid-row grid-gap'><div class='tablet:grid-col-12 usa-prose'><div class='region region-content'><div id='block-hrsa-page-title' class='block block--provider-core block--id-page-title-block'><div class='block\_\_content'><h1 class='uswds-page-title page-title'><span class='field field--name-title field--type-string field--label-hidden'>About the Injury Compensation Programs</span></h1></div></div><div id='block-hrsa-content' class='block block--provider-system block--id-system-main-block'><div class='block\_\_content'><article role='article' about='/about-us' class='node node--type-hrsa-main-landing-page node--display-mode-full'><div class='node\_\_content'><div class='clearfix text-formatted field field--name-body field--type-text-with-summary field--label-hidden'><div class='field\_\_item'><p>Two of our programs give individuals a streamlined system for compensation for their injuries.</p><h2>National Vaccine Injury Compensation Program (VICP)</h2><p><a href='https://www.hrsa.gov/vaccine-compensation/index.html' target='\_blank'>VICP</a> compensates people injured by certain vaccines given routinely to children and adults. These include the seasonal flu vaccine, measles, mumps, rubella or polio.</p><p>COVID-19 vaccines are covered countermeasures under the Countermeasures Injury Compensation Program (CICP), not the National Vaccine Injury Compensation Program.</p><h2>Countermeasures Injury Compensation Program (CICP)</h2><p><a href='https://www.hrsa.gov/cicp/' target='\_blank'>CICP</a> compensates individuals for serious physical injuries or deaths from pandemic, epidemic, or security countermeasures.</p><p>This includes COVID-19 medical countermeasures, such as COVID-19 vaccines, antivirals, drugs biologics, diagnostic, respiratory protective devices and other devices used to diagnose, mitigate, prevent, treat or cure COVID-19, identified in declarations issued by the Secretary of the U. S. Department of Health and Human Services. </p></div></div><div class='field field--name-field-hrsa-date-last-reviewed field--type-datetime field--label-inline'><div class='field\_\_label'>Date Last Reviewed:</div><div class='field\_\_item'><time datetime='2020-12-15T12:00:00Z' class='datetime'>August 2021</time></div></div></div></article></div></div></div></div>\", order: 0 }"

**Example of new HLPR\_PageContent():**

The Seed() entry for new HLPR\_PageContent() contains three properties:

* *PageName* is the hardcoded Title in the ASPX Header of the page represented in Step 3
* *ElementName* is the name of the element in the ASPX page the HTML will be amended to
* *Json* is the content that will be passed to the page for rendering

new HLPR\_PageContent() { PageName = "About", ElementName = "aboutBody", Json = "{ entity: 'div', alias: 'About Us', body: \"<div class='grid-col-12'><div class='region region-breadcrumb'><div id='block-hrsa-breadcrumbs' class='settings-tray-editable block block--provider-system block--id-system-breadcrumb-block' data-drupal-settingstray='editable'><div class='block\_\_content'><span id='system-breadcrumb' class='visually-hidden'>Breadcrumb</span><ol class='add-list-reset uswds-breadcrumbs uswds-horizontal-list usa-breadcrumb\_\_list-item'><li><a href='Landing'>Home</a> </li><li>About Us</li></ol></div></div></div><div class='region region-highlighted'><div data-drupal-messages-fallback='' class='hidden'></div></div></div></div><div class='grid-row grid-gap'><div class='tablet:grid-col-12 usa-prose'><div class='region region-content'><div id='block-hrsa-page-title' class='block block--provider-core block--id-page-title-block'><div class='block\_\_content'><h1 class='uswds-page-title page-title'><span class='field field--name-title field--type-string field--label-hidden'>About the Injury Compensation Programs</span></h1></div></div><div id='block-hrsa-content' class='block block--provider-system block--id-system-main-block'><div class='block\_\_content'><article role='article' about='/about-us' class='node node--type-hrsa-main-landing-page node--display-mode-full'><div class='node\_\_content'><div class='clearfix text-formatted field field--name-body field--type-text-with-summary field--label-hidden'><div class='field\_\_item'><p>Two of our programs give individuals a streamlined system for compensation for their injuries.</p><h2>National Vaccine Injury Compensation Program (VICP)</h2><p><a href='https://www.hrsa.gov/vaccine-compensation/index.html' target='\_blank'>VICP</a> compensates people injured by certain vaccines given routinely to children and adults. These include the seasonal flu vaccine, measles, mumps, rubella or polio.</p><p>COVID-19 vaccines are covered countermeasures under the Countermeasures Injury Compensation Program (CICP), not the National Vaccine Injury Compensation Program.</p><h2>Countermeasures Injury Compensation Program (CICP)</h2><p><a href='https://www.hrsa.gov/cicp/' target='\_blank'>CICP</a> compensates individuals for serious physical injuries or deaths from pandemic, epidemic, or security countermeasures.</p><p>This includes COVID-19 medical countermeasures, such as COVID-19 vaccines, antivirals, drugs biologics, diagnostic, respiratory protective devices and other devices used to diagnose, mitigate, prevent, treat or cure COVID-19, identified in declarations issued by the Secretary of the U. S. Department of Health and Human Services. </p></div></div><div class='field field--name-field-hrsa-date-last-reviewed field--type-datetime field--label-inline'><div class='field\_\_label'>Date Last Reviewed:</div><div class='field\_\_item'><time datetime='2020-12-15T12:00:00Z' class='datetime'>August 2021</time></div></div></div></article></div></div></div></div>\", order: 0 }" },

1. Create ASPX page and ensure the ASPX page has the page name defined in the page
   1. The Title defined in the ASPX page will be used to determine what record to pull from SQL when the page is rendered…