StringInterpolator Document Rendering Library

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This module (incode-module-docrendering-stringinterpolator) provides an implementation of the Document subdomain module's Renderer interface using the stringinterpolator library module.

#### **API**

The module provides three different implementations of Renderer:

- RendererForStringInterpolator which implements RendererFromCharsToChars
  - useful for interpolating document names or simple text (eg an HTML email)
- RendererForStringInterpolatorCaptureUrl which implements RendererFromCharsToBytes
  - interpolates to a URL, then uses the UrlDownloaderService (SPI service, discussed below) to download the URL and return its content as a byte[]. For example, could be used to download a PDF or Word document.
- RendererForStringInterpolatorPreviewAndCaptureUrl which implements RendererFromCharsToBytesWithPreviewToUrl
  - this is very similar to the previous renderer, but also provides access to the intermediary URL, thereby allowing the Document module to provide an action to preview the document.

These classes can be used as the Renderer implementation for a Document RenderingStrategy. Subclasses of the RenderingStrategyFSAbstract fixture script can be used to create such an entity, eg:

• RenderingStrategyFSForStringInterpolator

RenderingStrategyFSForStringInterpolatorCaptureUrl

 $\bullet \ \ Rendering Strategy FSF or String Interpolator Preview And Capture Url$ 

The document subdomain module also allows RenderingStrategys to be created from the UI; it will "discover" all Renderer implementations from the classpath.

#### **SPI**

#### The RendererForStringInterpolatorCaptureUrl

and

RendererForStringInterpolatorPreviewAndCaptureUrl renderer implementations both rely on the UrlDownloaderService to convert the interpolated URL string into an array of bytes. This interface is defined as:

```
public interface UrlDownloaderService {
   public byte[] download(URL url) throws IOException;
   boolean canDownload(URL url);
}
```

The application consuming this module can provide its own implementation of this service, or may be able to use one of the implementations provided out-of-the-box by the module discussed below).

## **SPI Implementations**

The module provides two implementations of the UrlDownloadService. The renderer will use the first service where  $canDownload(\cdots)$  returns true.

#### **UrlDownloaderUsingNtlmCredentials**

(As its name suggests), the UrlDownloaderUsingNtlmCredentials implementation of the service is able to access a URL and provide NTLM (Active Directory) credentials.

It requires the following configuration options:

- incode.module.docrendering.stringinterpolator.UrlDownloaderUsingNtlmCredentials.user
- incode.module.docrendering.stringinterpolator.UrlDownloaderUsingNtlmCredentials.password
- incode.module.docrendering.stringinterpolator.UrlDownloaderUsingNtlmCredentials.host

The user should be provided in the format DOMAIN/username eg ACME/jbloggs.

If the configuration options are not provided, then the service is effectively ignored.

This service has a priority of 100 (@DomainService#menuOrder="100").

#### UrlDownloaderService.SimpleUsingGuava (fallback)

The UrlDownloaderService.SimpleUsingGuava implementation of the service simply uses Guava to download from the URL, providing no credentials. It is used as a fallback if no other service is able to download.

# How to configure/use

### Classpath

Update your classpath by adding this dependency in your dom project's pom.xml:

```
<dependency>
    <groupId>org.incode.example.docrendering</groupId>
    <artifactId>incode-example-docrendering-stringinterpolator-dom</artifactId>
    <version>1.16.1</version>
</dependency>
```

Check for later releases by searching Maven Central Repo.

For instructions on how to use the latest -SNAPSHOT, see the contributors guide.

## **Bootstrapping**

In the AppManifest, update its getModules() method, eg:

## **Known** issues

None known at this time.

#### **Dependencies**

Maven can report modules dependencies using:

```
mvn dependency:list -o -pl modules/dom/docrendering-stringinterpolator/impl -D
excludeTransitive=true
```

which, excluding Apache Isis itself, returns these compile/runtime dependencies:

```
org.apache.httpcomponents:httpclient:jar:4.5.2
```

From the Incode Platform it uses:

- base library module
- stringinterpolator library module
- document example subdomain module