



IMPORTING RESOURCES

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IMPORTING PREDEFINED CONTENT

- ❖ The Resources Importer allows you to deploy your themes with predefined content.
- ❖ This can be useful for creating content and themes together to provide a wholesale style change.
- ❖ When deployed, the Resources Importer creates a site template, which can be used for creating new sites with a predefined look and feel.

RESOURCES IMPORTER'S FILE STRUCTURE

- ❖ Theme resources reside in the source of your theme.
- ❖ You can create files and folders in a new *[theme-folder]/docroot/WEB-INF/src/resources-importer* directory.
- ❖ Example file structure:

```
resources-importer/  
  document_library/  
    documents/  
  journal/  
    articles/  
    structures/  
    templates/  
  assets.json  
  sitemap.json
```

RESOURCES IMPORTER CREATES A SITE TEMPLATE

- ❖ The site template that will be generated is defined in the `sitemap.json` file.
- ❖ This file describes the contents and hierarchy of a site that Liferay can import as a site template.
- ❖ The `sitemap.json` file defines the following:
 - ❖ Pages of a to-be-generated site template
 - ❖ Layout templates
 - ❖ Applications
 - ❖ Application preferences (Portlet preferences)
 - ❖ Content to display

RESOURCES IMPORTER EXAMPLE

- ❖ Here is a `sitemap.json` example that will create one page named `Welcome` that has two columns, a Login application in one and a Hello World application in the other.

```
{
  "layoutTemplateId": "2_columns_ii",
  "publicPages": [
    {
      "columns": [
        [ { "portletId": "com_liferay_login_web_portlet_LoginPortlet"
          [ { "portletId": "com_liferay_hello_world_web_portlet_
            HelloWorldPortlet" } ]
        ],
        "friendlyURL": "/home",
        "name": "Welcome",
        "title": "Welcome"
      ]
    }
  ]
}
```

IMPORTING ASSETS WITH METADATA

- ❖ The `assets.json` file specifies details about the assets to be imported.
- ❖ Tags can be applied to any asset.
- ❖ Abstract summaries and small images can be applied to web content articles. As an example:

```
{
  "assets": [
    {
      "name": "company_logo.png",
      "tags": [ "logo", "company" ]
    },
    {
      "abstractSummary": "This is an abstract summary.",
      "name": "My Example.xml",
      "smallImage": "company_logo.png",
      "tags": [ "web content" ]
    }
  ]
}
```

IMPORTING DOCUMENTS AND MEDIA

- ❖ By default, all assets under the directory `document_library/documents/` get imported into the platform's global *Documents and Media*.

- ❖ Example file structure:

```
document_library/  
  documents/  
    image.png  
    Custom Folder/  
      image 2.png
```

- ❖ With this example file structure, `image.png` will be placed in the root folder of the *Documents and Media* application.
- ❖ `image 2.png` will be placed in a folder named `Custom Folder`.

IMPORTING WEB CONTENT

- ❖ The journal directory is used for importing various assets related to web content such as structures (JSON), templates (Velocity/FreeMarker), and web content articles (XML).

```
journal/  
  articles/  
    My Example Template A/ (matches Template name)  
      My Example Article X.xml  
      My Example Article Y.xml  
  structures/  
    My Example Structure H.json  
  templates/  
    My Example Structure H/ (matches Structure name)  
      My Example Template A.fl  
      My Example Template B.fl
```


EXAMPLE STRUCTURE

- ❖ Here is an example of a Structure. We'll call it My Example Structure H.json:

```
{  
  "availableLanguageIds": [ "en_US" ],  
  "defaultLanguageId": "en_US",  
  "fields": [  
    { "name": "Header", "type": "text", ... },  
    { "name": "Body", "type": "textarea", ... }  
  ]  
}
```

- ❖ The source JSON of Web Content Structures can be found by clicking the Source tab while editing the Structure.

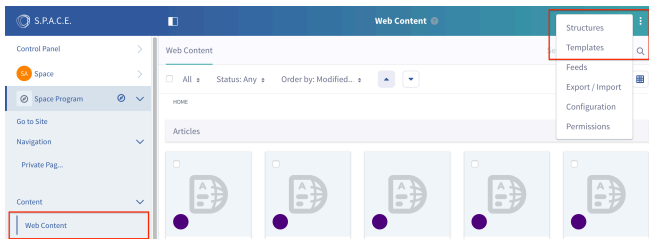
EXAMPLE TEMPLATE

- ❖ Here's an example of a Template. We'll call it My Example Template A.ftl:

```
<h1>${Header.getData()}</h1>
```

```
<p>${Body.getData()}</p>
```

- ❖ Both Structures and Templates can be created/edited by navigating to Web Content in *Site Administration* via the *Product Menu*.



EXAMPLE ARTICLE X.XML

- ❖ To access the source XML of an article, go to the edit page of the article and click the *View Source* option.
- ❖ Let's take a look at an example article. We'll call it Example Article X.xml:

```
<?xml version="1.0"?>

<root available-locales="en_US" default-locale="en_US">
  <dynamic-element name="Header" type="text" index-type="keyword"
    instance-id="mdyl">
    <dynamic-content language-id="en_US"><![CDATA[My Header]]>
    </dynamic-content>
  </dynamic-element>
  <dynamic-element name="Body" type="text_box" index-type="keyword"
    instance-id="opiq">
    <dynamic-content language-id="en_US"><![CDATA[My body <em>with</em>
    HTML.]]>
    </dynamic-content>
  </dynamic-element>
</root>
```

ADDING WEB CONTENT TO THE SITEMAP

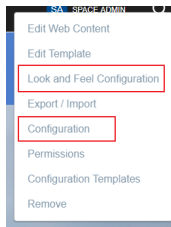
- ❖ To add a Web Content Display and choose a content article to display, we could do something like this example in the `sitemap.json`:

```
"columns": [  
  [  
    { "portletId": "com_liferay_hello_world_web_portlet_HelloWorldPortlet"  
    {  
      "portletId":  
      "com_liferay_journal_content_web_portlet_JournalContentPortlet",  
      "portletPreferences": {  
        "articleId": "My Example Article X.xml",  
        "groupId": "${groupId}",  
        ...  
      }  
    },  
    ...  
  ]  
],  
...  
]
```

- ❖ Here, we'll add the web content application right below the Hello World application.

PORTLET PREFERENCES

- ❖ You'll notice we use a `portletPreferences` property to select the article we will display in the Web Content Display application.
- ❖ `portletPreferences` are properties that store basic application configuration data.
- ❖ Just as you can apply some configurations for applications through the UI, *portletPreferences* properties allow you to set configurations for applications in the `sitemap.json` file.



COMMON PORTLET PREFERENCES

- Here are a few commonly used `portletPreferences` properties:

<code>articleId</code>	Selects an article
<code>groupId</code>	Selects a site
<code>portletSetupTitle_en_US</code>	Sets custom title
<code>portletSetupUseCustomTitle</code>	Allows use of custom title
<code>portletSetupPortletDecoratorId</code>	Sets Application Decorator

- Some `portletPreferences` properties are general, while others are application-specific.

EXAMPLE PORTLET PREFERENCES

- ❖ In the previous example, we are taking advantage of `portletPreferences` to configure the Web Content Display application.

```
"portletPreferences": {  
    "articleId": "My Example Article X.xml",  
    "groupId": "${groupId}",  
    ...  
}
```

- ❖ With the `articleId` property, we choose which article to display in the Web Content Display application.
 - ❖ The `Example Article X.xml` will be located in the `journal/articles` folder of our example Resource Importer module.
- ❖ The `groupId` property determines the site where the content will be displayed.

SETTING APPLICATION DECORATORS

- ❖ It is also possible to set the application decorator from a `sitemap.json` where `portletSetupPortletDecoratorId` is the id of the decorator to be used:

```
{
  "portletId": "com_liferay_journal_content_web_portlet_
  JournalContentPortlet",
  "portletPreferences": {
    "articleId": "My Content.xml",
    "groupId": "${groupId}",
    "portletSetupPortletDecoratorId": "barebone"
  }
}
```

- ❖ In this example, the application decorator is set to the *barebone* setting.
- ❖ The `portletSetupPortletDecoratorId` property can be set to any of the application decorators available (i.e., *barebone*, *borderless*, *decorate*).

SETTING CUSTOM DECORATORS

- ❖ The `portletSetupPortletDecoratorId` preference could be set to our custom decorator id as well. The preference can be set when embedding applications in a theme:

```
<#assign VOID = freeMarkerPortletPreferences.setValue
("portletSetupPortletDecoratorId", "barebone") />
<div aria-expanded="false" class="collapse navbar-collapse"
id="navigationCollapse">
    <#if has_navigation && is_setup_complete>
        <nav class="{nav_css_class} site-navigation" id="navigation"
            role="navigation">
            ...
        </nav>
    </#if>
</div>

<#assign VOID = freeMarkerPortletPreferences.reset() />
```

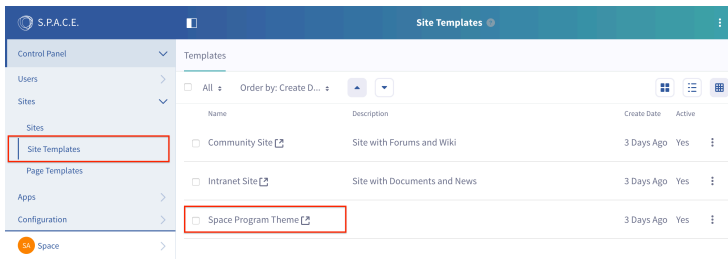
- ❖ Application decorators can also be updated from the application's *Look and Feel* menu.

EXERCISE: BUNDLING RESOURCES IN OUR THEME

1. **Go to** `space-program-theme/src/WEB-INF`.
2. **Create** a folder named `src`.
3. **Copy** the `resources-importer` folder from `exercises/front-end-developer-exercises/03-theme-development/09-importing-resources`.
4. **Paste** the entire folder into `space-program-theme/src/WEB-INF/src`.

DEPLOYING RESOURCES

- ❖ With the necessary `sitemap.json` and resources, you can deploy the theme.
- ❖ With the default configuration, the Resources Importer will create a Site Template that shares the name of the theme.
- ❖ We can also create a new site that includes the resources on the page.
- ❖ We'll do this to create a separate Space Program site that will display different assets from S.P.A.C.E.



The screenshot displays the S.P.A.C.E. Site Templates interface. The left sidebar contains a navigation menu with the following items: Control Panel, Users, Sites, Site Templates (highlighted with a red box), Page Templates, Apps, and Configuration. The main content area is titled 'Site Templates' and shows a table of templates. The table has columns for Name, Description, Create Date, and Active. The 'Space Program Theme' row is highlighted with a red box.

Name	Description	Create Date	Active
<input type="checkbox"/> Community Site	Site with Forums and Wiki	3 Days Ago	Yes
<input type="checkbox"/> Intranet Site	Site with Documents and News	3 Days Ago	Yes
<input type="checkbox"/> Space Program Theme		3 Days Ago	Yes

IMPORTING RESOURCES TO EXISTING SITES

- ❖ To configure the Resources Importer to import resources into a site, rather than a site template, add the following properties to:

```
{theme-name}/src/WEB-INF/
```

```
liferay-plugin-package.properties.
```

```
...
```

```
resources-importer-target-class-name=com.liferay.portal.kernel.model.Group
```

```
resources-importer-target-value=[site-name]
```

```
...
```

- ❖ If the `site-name` is an existing site, the Resources Importer will import into that site.
- ❖ When the site doesn't exist, the Importer will create it for you.
 - **Note:** This can be a great way to show off your theme's features, or demonstrate how to arrange content nicely.

EXERCISE: UPDATING OUR PACKAGE PROPERTIES

1. **Go to** the `exercises/front-end-developer-exercises/03-theme-development/09-importing-resources` folder.
2. **Copy** the `liferay-plugin-package.properties` file.
3. **Go to** the `space-program-theme/src/WEB-INF`.
4. **Paste** the file to overwrite the existing `liferay-plugin-package.properties`.
5. **Run** `gulp deploy`.

SELECTING THE THEME

- ❖ The Resources Importer created a new site called *Space Program*, but the theme may not be automatically applied to it.
- ❖ You may need to manually apply the theme to the *Space Program* site to see the full styling:
 1. **Click** the *Site Selector* under *Site Administration* in the *Menu*.
 2. **Click** the *My Sites* tab.
 3. **Choose** the *Space Program* site.
 4. **Click** *Private Pages* under *Navigation*.
 5. **Click** *Options*→*Configure* to the right of *Private Pages*.
 - **Note:** if the *Options* menu is not visible, you may need to use the *Options* menu on *Private Pages*.
 6. **Click** *Change Current Theme*.
 7. **Choose** the *Space Program* theme.
 8. **Click** *Save*.

DEVELOPER MODE

- ❖ The Resources Importer has a developer mode, which deletes and re-creates the target site or site template on each deploy.
- ❖ To enable developer mode, add the following to:
`liferay-plugin-package.properties`
...
`resources-importer-developer-mode-enabled=true`
...
- ❖ Themes created via the Liferay Theme Generator have developer mode enabled by default.
- ❖ Although this is useful for development, it should never be used in a production environment.

Notes: