



L731 - Reusing content for mobile apps



Lab Overview

In this lab you will learn how to use Adobe Experience Manager (AEM) as a headless CMS while reusing and exposing content to mobile applications. We will deep-dive into two major ways Adobe Experience Manager exposes data in a headless manner, allowing mobile apps to seamlessly consume content. We will also explore how Adobe Experience Manager Commerce Product data can easily be exposed to other systems in a headless fashion to create fluid experiences.

Key takeaways in this lab:

1. Use Content Services to build and deliver headless content in Adobe Experience Manager
2. Use Sling Model Exporter to augment Adobe Experience Manager content for applying custom business-logic overlays and deliver it in a headless fashion
3. Reuse and consume the content above in a mobile app to create a mobile-first experience for your customers built on AngularJS, Ionic, and PhoneGap

Provided

- AEM 6.4 Beta
- We.Retail site

Output of this lab:

- Working Mobile App built on AngularJS, Ionic & PhoneGap
- Conference Speaker Content Fragment Model & Sample Content
- FAQ Content Fragment Model & Sample Content
- Sample Sling Model Exporter to surface We-Retail Product Categories
- Full Code and Solution Content Packages available at <https://github.com/amol-anand/summit-L731>

Created By

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Lab Activities

Chapter 1 - Overview, Setup & Connectivity

This chapter focuses on giving you an overview of the technologies we are using. We will also show you how to preview the Mobile App and test out the connectivity between the Mobile App and AEM.

Mobile Stack Overview

Our Mobile App is built using **Apache Cordova** technology and utilizes **Angular** for its JavaScript Framework and **Ionic** as the HTML5 UI Framework.

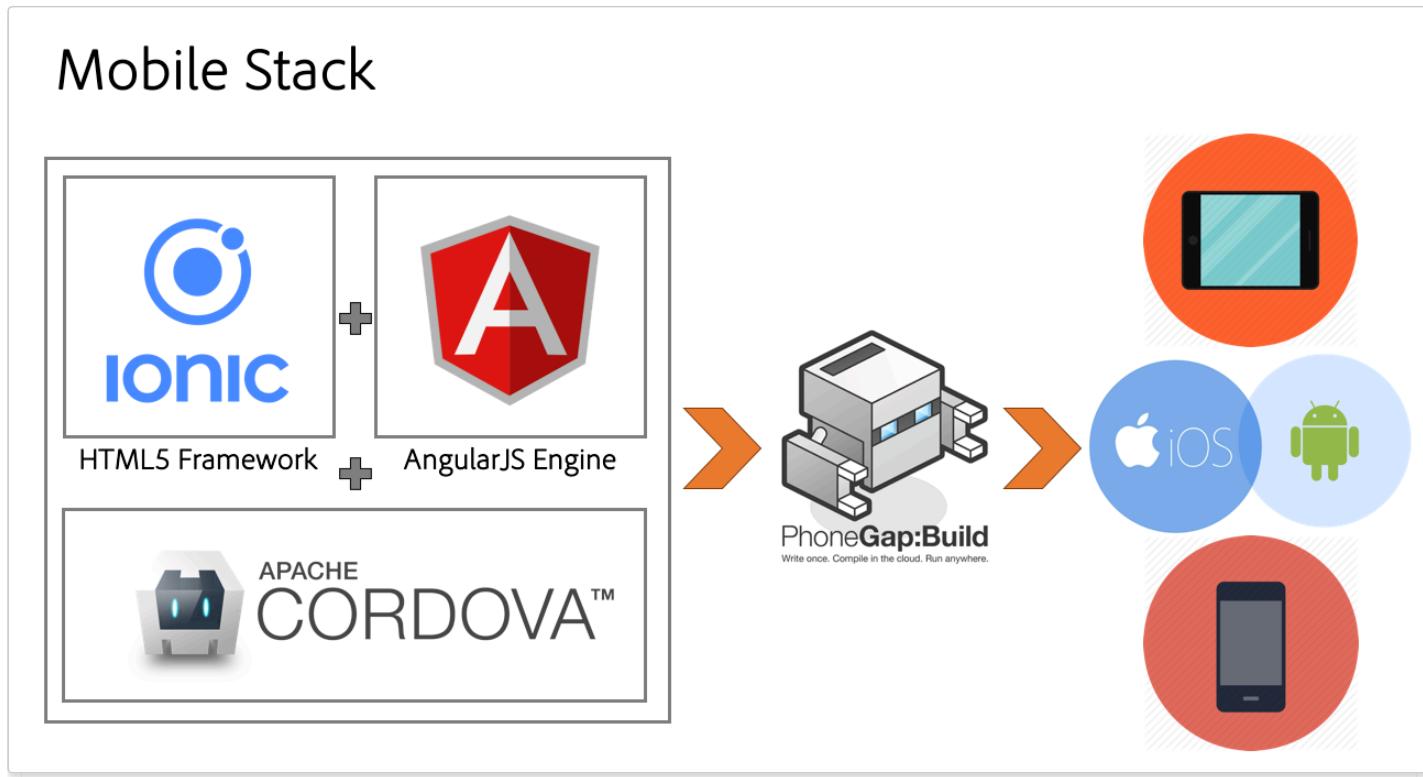
You can learn more about these technologies here:

Apache Cordova: <https://cordova.apache.org>

Ionic Framework: <https://ionicframework.com>

Angular: <https://angular.io>

A typical hybrid mobile app stack built on these technologies would look like the image below:



Note: PhoneGap Build is a cloud service for compiling PhoneGap applications. We will not be using it for the purposes of this lab

Activity 1.1 - Preview the Mobile App

Follow the steps below to run ionic and preview the mobile app in your browser

1. Open the Terminal Application

2. Browse to the folder with the Mobile App code

```
cd ~/Desktop/summit-L731/app
```

3. Run the Ionic Preview Command

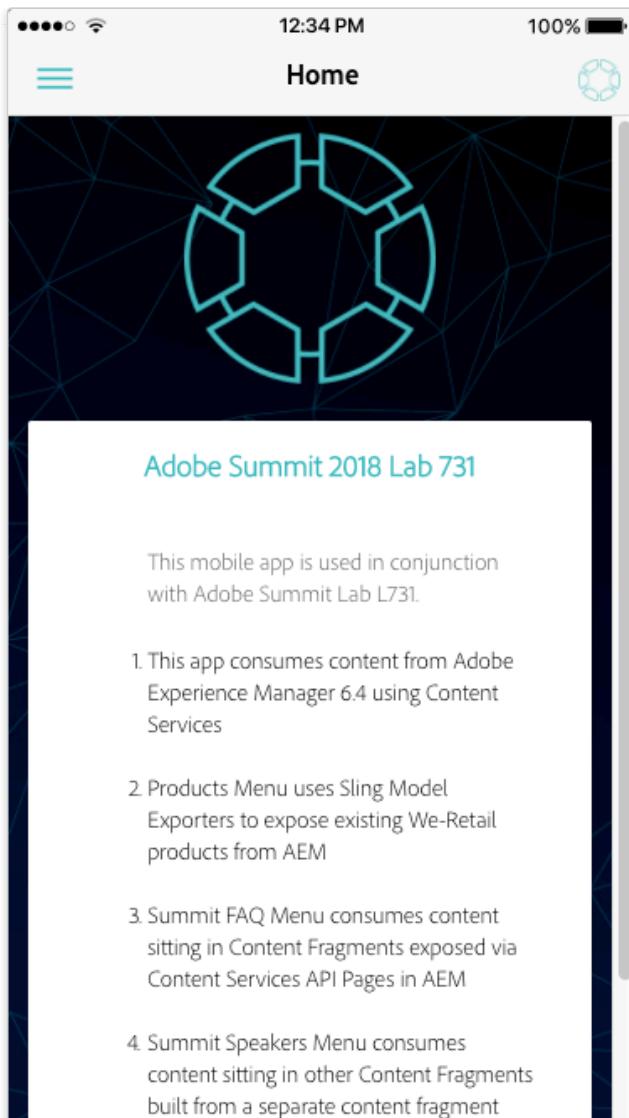
```
ionic serve --lab
```

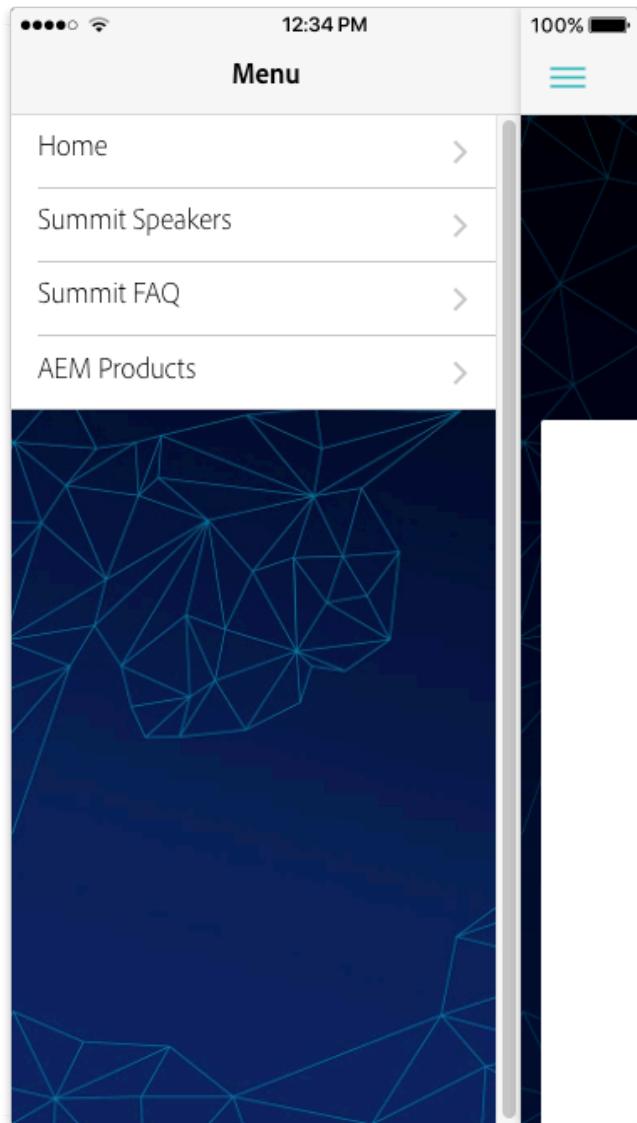
4. Preview the Mobile App in your browser

```
http://localhost:8100/ionic-lab
```

Note: Pick iPhone or Android in the platforms dropdown on the top right of this page and view the app in that flavor. The Ionic Framework automatically attaches the appropriate icons & styling to suit the specific platform

You should now see the mobile app preview with three menu items as shown below:





Chapter 2 - Content Services: Summit Speakers

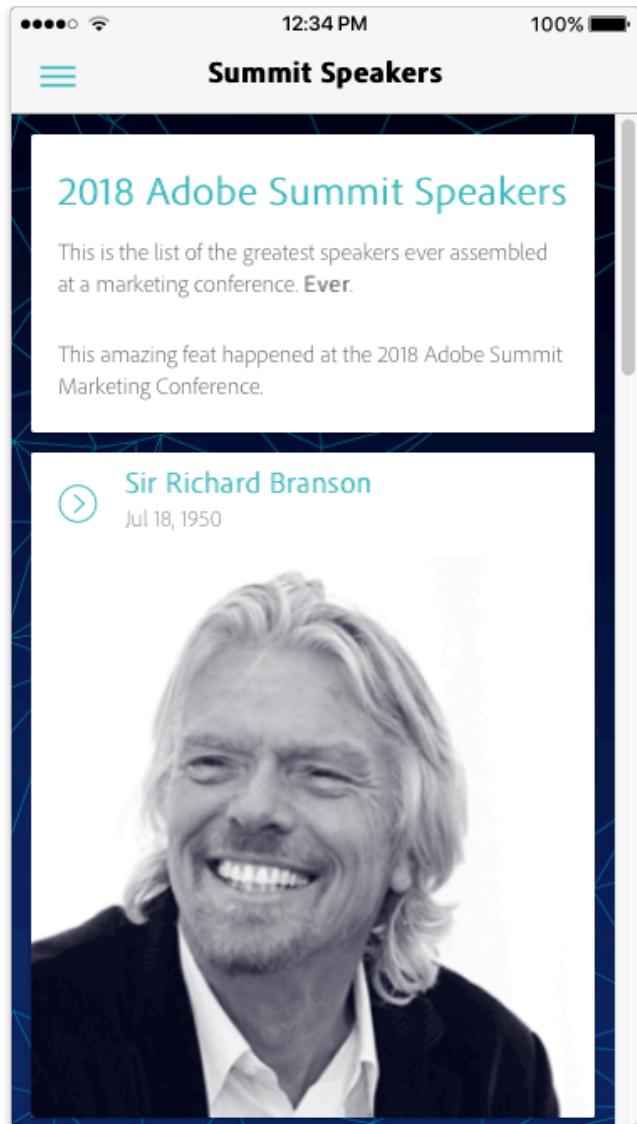
This chapter covers headless delivery of content fragments built using the **Conference Speaker Content Fragment Model (CFM)**.

Definition

Content Fragment Model (CFM) - Content Fragment Models define the structure of content for your content fragments. In AEM 6.4, a content fragment model now allows us to add additional elements to make up a bigger piece of content than just pure text. This helps in creating "content objects" that can then be exposed via Content Services for cross-channel consumption.

Scenario

Our Mobile App needs to display a list of conference speakers as shown below in the UX handed to us by our design team.



Let's preview the Summit Speakers menu item in the mobile app. Compare this with what you see in the mobile app preview.

Activity 2.1 - Look at the content exposed from AEM

Let's take a look at the content in AEM and see how it is built out. We will work our way back from the JSON endpoint that the mobile app points to in AEM and look at how that is built out.

1. Summit Speakers JSON API Endpoint

This can be found in Line 18 of config.ts located in the following location from the project code root path:

```
app/src/providers/config.ts
```

Let's follow this URL and take a look at the JSON on the AEM Publish server

```
http://localhost:4503/content/we-retail/us/en/api/speakers.model.json
```

Note that the following pieces of information are being exposed in the JSON:

- Title
- Text

- Multiple Content Fragments with the following elements:
 - Speaker Name
 - Speaker Byline
 - Speaker Image
 - Speaker Date of Birth

Note: Even before Content Services existed, AEM was able to expose any content as JSON just by using the default .json extension. (Sling JSON Servlet) exposes a "raw" representation of the node, which can change over time / versions of AEM. In effect, the Sling JSON Servlet is effectively exposing the implementation details, and not necessarily a "stable" JSON API that can be consumed by other applications. Take a look for yourself at the difference between .json and .model.json for this particular page.

`http://localhost:4503/content/we-retail/us/en/api/speakers.4.json`

2. Preview the Summit Speakers HTML page on AEM Publish using the following URL

Let's look at the actual AEM page that exposes this JSON

`http://localhost:4503/content/we-retail/us/en/api/speakers.html`

Note: Just by changing ".html" to ".model.json", we were able to expose all this information in the page in a well-structured JSON that our mobile app (or for that matter, any 3rd party application) can consume. Because we used Core Components on this page, there was no need to build any custom code to make this happen. A business user now has the ability to update this page and change content in the mobile app without writing a single line of code!

3. Open the same page in AEM Author using the following URL (in a new tab)

`http://localhost:4502/editor.html/content/we-retail/us/en/api/speakers.html`

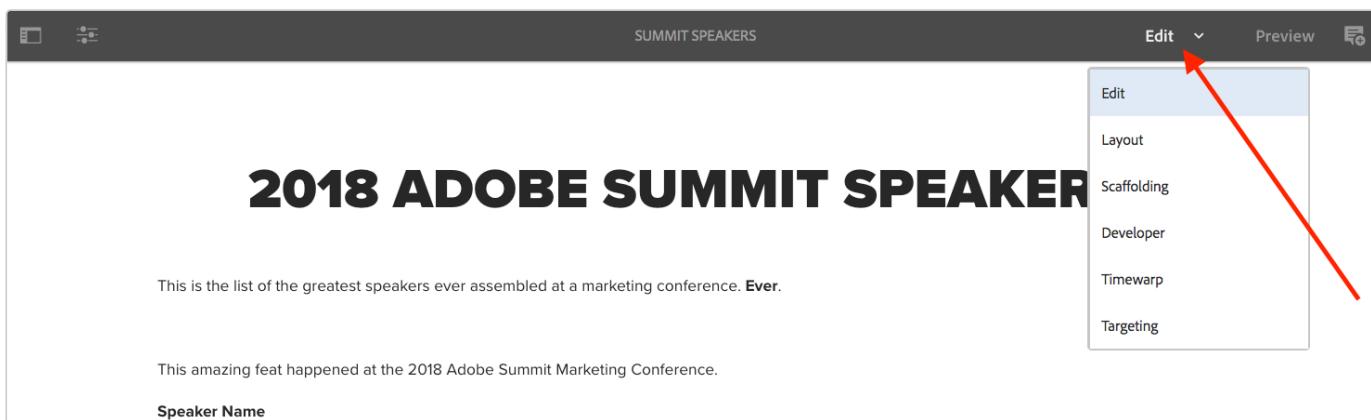
Activity 2.2 - Title Mania!

Let's update the title of this screen in the app. To do this, we need to perform the following steps:

- Step 1: Edit the Speakers page
- Step 2: Update the title of the page
- Step 3: Publish your changes
- Step 4: Preview the changes in the mobile app

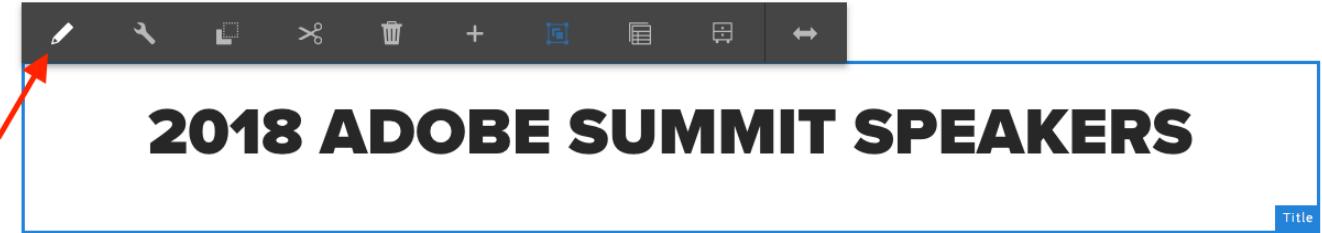
Step 1: Edit the Speakers page

To make any changes, you need to first be in Edit Mode in the Authoring interface



Step 2: Update the title of the page

Edit the Title component and update the value with something new.



This is the list of the greatest speakers ever assembled at a marketing conference. **Ever.**

This amazing feat happened at the 2018 Adobe Summit Marketing Conference.

Speaker Name
Sir Richard Branson

Speaker Byline

Step 3: Publish your changes

From the top-left menu, publish your changes by clicking on "Publish Page" menu option as shown below:



Modified 3 minutes ago by Administrator
Page has been published 5 days ago by Administrator

Open Properties

Start Workflow

Lock Page

Publish Page

Unpublish Page

Edit Template

View as Published

View in Admin

Help

greatest speakers ever assembled at a marketing conference. **Ever.**

happened at the 2018 Adobe Summit Marketing Conference.

y Sir Richard Branson, the Virgin Group has gone on to grow successful businesses in sectors including mobile telephony, travel financial services, leisure and entertainment and health and wellness. Virgin is a leading international investment group and one of the world's most recognized and respected brands. Since starting the youth culture magazine Student at age 16, Richard has found entrepreneurial ways to drive positive change in the world.

Pro Tip: Mobile or any 3rd party apps should point to content in the Publish Tier and not Author Tier. Typically, you would have a Dispatcher and a Content Delivery Network on top of the Publish server, but in this lab we are just using the Publish server. We can still leverage all authoring capabilities and workflow before content becomes published like we would for a normal website running on AEM.

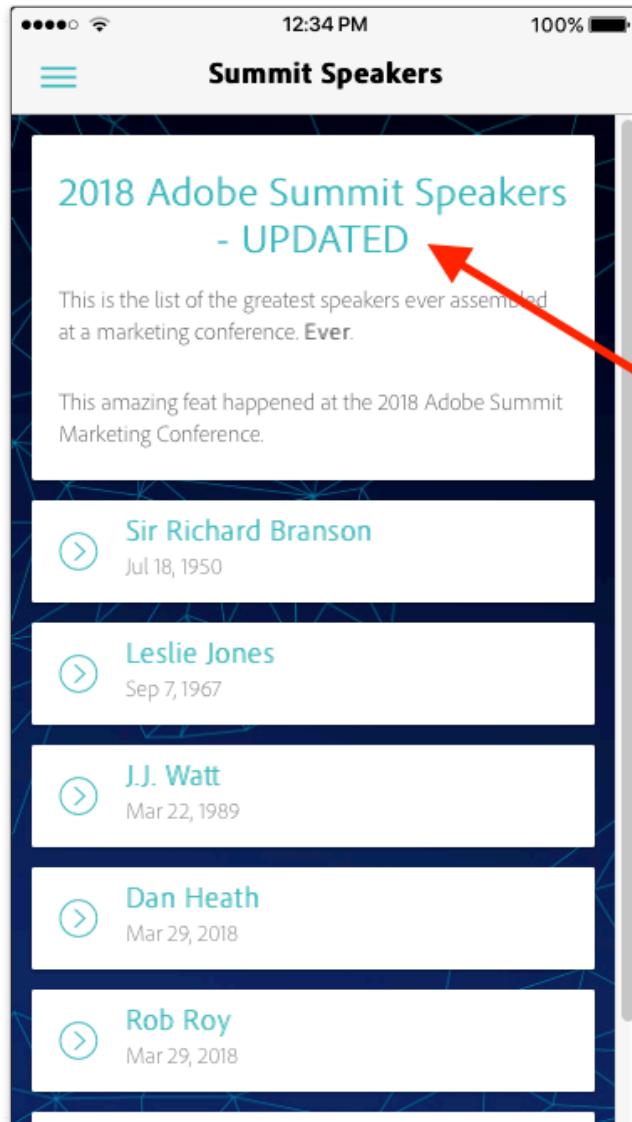
Step 4: Preview your changes in the JSON & Mobile App

1. Look at the JSON and check if you can find your updated value

```
http://localhost:4503/content/we-retail/us/en/api/speakers.model.json
```

Hint: You can search for your updated change in the JSON by using Command + F

2. Refresh the mobile app preview and navigate to the Summit Speakers menu item and take a look at your updated value there



Activity 2.3 - Release the Images!

Looking at the app preview, we can see that the app is pulling in the following elements from content fragments in AEM:

- Speaker Name
- Speaker Byline
- Speaker Date of Birth

but it is not using

- Speaker Image

yet.

Let's fix the experience and pull in this additional piece of content to the mobile app. To do this, we need to perform the following steps:

- Step 1: Edit the Summit Speakers App Screen
- Step 2: Add images to the display of the mobile app screen
- Step 3: Preview the changes in the mobile app

1. Edit the Summit Speakers App Page

This is located in the following location from the project code root path:

```
app/src/pages/summit-speakers/summit-speakers.html
```

2. Add images to the display of the mobile app screen

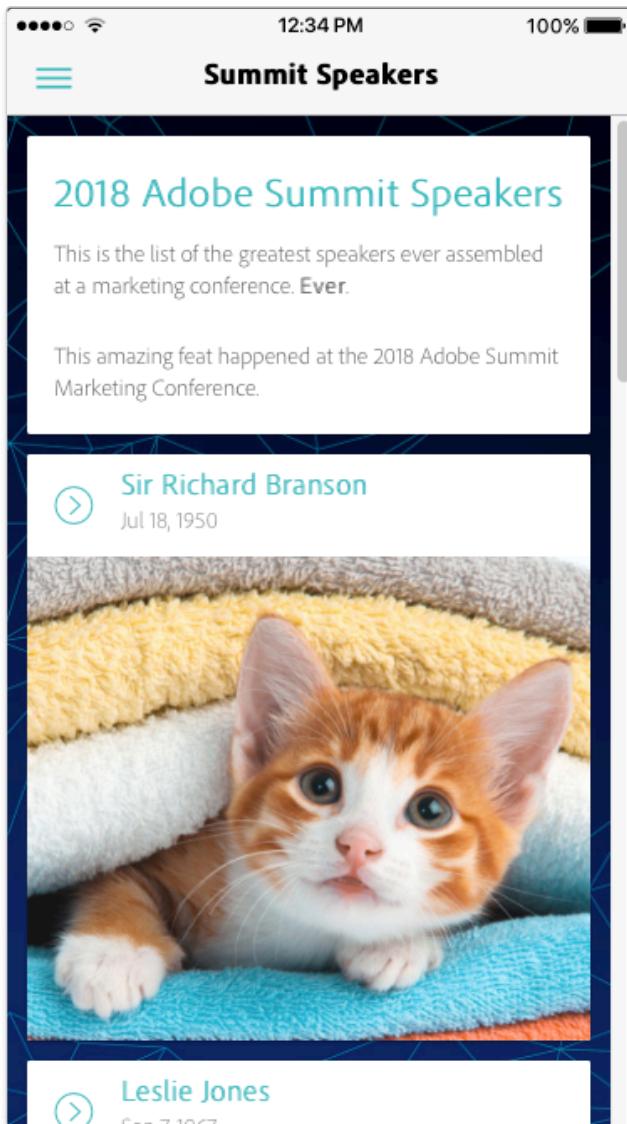
Uncomment Line 34. This line of code pulls in the right value from the Model JSON and adds it to the app screen.

```

1 <ion-header>
2   <ion-navbar>
3     <button ion-button menuToggle>
4       <ion-icon name="menu"></ion-icon>
5     </button>
6     <ion-title>Summit Speakers</ion-title>
7     <ion-buttons end>
8       <button ion-button class="rightButton">
9         <ion-icon></ion-icon>
10        </button>
11      </ion-buttons>
12    </ion-navbar>
13  </ion-header>
14
15 <ion-content class="page-summit-speakers">
16   <ion-card class="speaker-card">
17     <ion-card-content>
18       <ion-card-title>
19         <h1>{{title}}</h1>
20       </ion-card-title>
21       <p [innerHTML]="text"></p>
22     </ion-card-content>
23   </ion-card>
24
25   <ion-card *ngFor="let item of speakers">
26     <ion-item (click)="toggleGroup(item)" [ngClass]="{{active: isGroupShown(i)}}>
27       <ion-icon item-start name="arrow-dropright" *ngIf="!isGroupShown(item)"></ion-icon>
28       <ion-icon item-start name="arrow-dropdown" *ngIf="isGroupShown(item)"></ion-icon>
29       <h2 class="speaker-name">{{ item.speaker["elements"]["speakerName"]["value"] }}</h2>
30       <p>{{ item.speaker["elements"]["speakerDOB"]["value"] | date : shortDate }}</p>
31     </ion-item>
32   </ion-card>
33   <!-- Un-comment the line below to solve Activity 2.3 -->
34   
35   <ion-card-content *ngIf="isGroupShown(item)">
36     <p [innerHTML]="item.speaker['elements']['speakerByline']['value']"></p>
37   </ion-card-content>
38 </ion-card>
39 </ion-content>
```

3. Preview the Mobile App

Now you should see images show up in the mobile app when you navigate to the Summit Speakers Menu item as shown below:



Activity 2.4 - Cute.. but let's release the *Right* Images!

Despite my personal preference for these images, let's now update the content fragments with the right images of the actual speakers.

There are two ways you can get to the content fragments:

Option 1: Edit the Content Fragment from the Page directly

- Step 1: Open the Summit Speakers AEM Page
- Step 2: Edit the Summit Speakers AEM Page
- Step 3: Update Content Fragments
- Step 4: Publish the changes
- Step 5: Preview the changes in the mobile app

Step 1.1. Open the Summit Speakers AEM Page

Navigate to: <http://localhost:4502/editor.html/content/we-retail/us/en/api/speakers.html>

Step 1.2. Edit the Summit Speakers AEM Page

To make any changes, you need to first be in Edit Mode in the Authoring interface

The screenshot shows the AEM authoring interface with the page title "SUMMIT SPEAKERS". In the top right corner, there is an "Edit" button with a dropdown menu. The menu items are: Edit (selected), Layout, Scaffolding, Developer, Timewarp, and Targeting. A red arrow points from the top right towards the "Edit" button. Below the title, the main content area displays the heading "2018 ADOBE SUMMIT SPEAKER" and two paragraphs of text. At the bottom of the content area, there is a "Speaker Name" field.

Step 1.3. Update Content Fragments

1. Click on each fragment and then click on the pencil icon as shown below. This will take you to the actual fragment to make the necessary edits.

The screenshot shows the AEM authoring interface with the page title "SUMMIT SPEAKERS". In the top right corner, there is an "Edit" button with a dropdown menu. The menu items are: Edit (selected), Layout, Scaffolding, Developer, Timewarp, and Targeting. A red arrow points from the top left towards the "Edit" button. Below the title, the main content area displays the heading "2018 ADOBE SUMMIT SPEAKERS" and two paragraphs of text. At the bottom of the content area, there is a "Speaker Name" field. A blue box highlights a content fragment containing text about Sir Richard Branson. A red arrow points from the top left towards the top of this box. The text within the highlighted box is:

This is the list of the greatest speakers ever assembled at a marketing conference. Ever.

Speaker Name
Sir Richard Branson
Speaker Byline
Entrepreneur

Conceived in 1970 by Sir Richard Branson, the Virgin Group has gone on to grow successful businesses in sectors including mobile telephony, travel and transportation, financial services, leisure and entertainment and health and wellness. Virgin is a leading international investment group and one of the world's most recognized and respected brands. Since starting the youth culture magazine Student at age 16, Richard has found entrepreneurial ways to drive positive change in the world.

In 2004 he established Virgin Unite, the non-profit foundation of the Virgin Group, which unites people and entrepreneurial ideas to create opportunities for a better world.

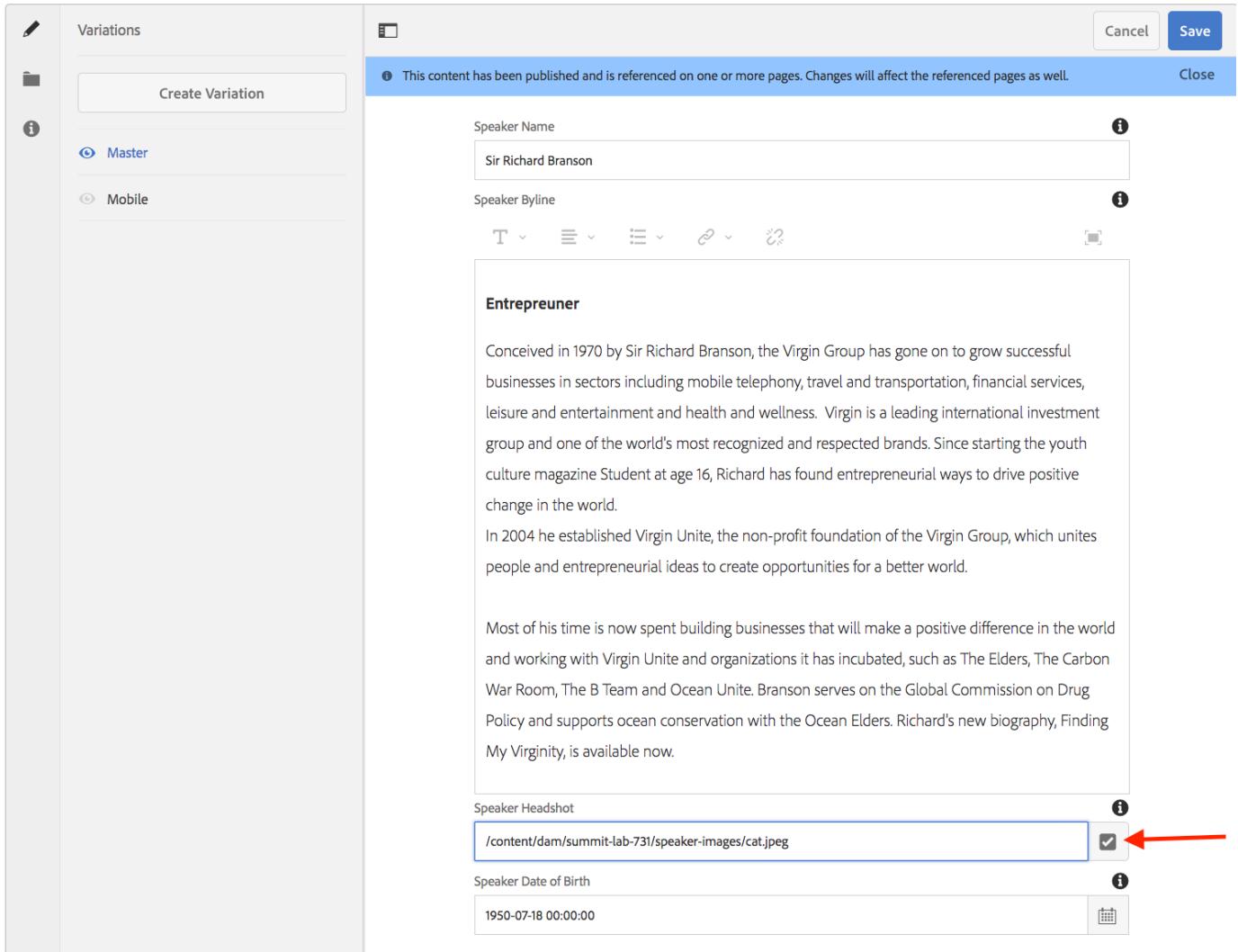
Most of his time is now spent building businesses that will make a positive difference in the world and working with Virgin Unite and organizations it has incubated, such as The Elders, The Carbon War Room, The B Team and Ocean Unite. Branson serves on the Global Commission on Drug Policy and supports ocean conservation with the Ocean Elders. Richard's new biography, Finding My Virginity, is available now.

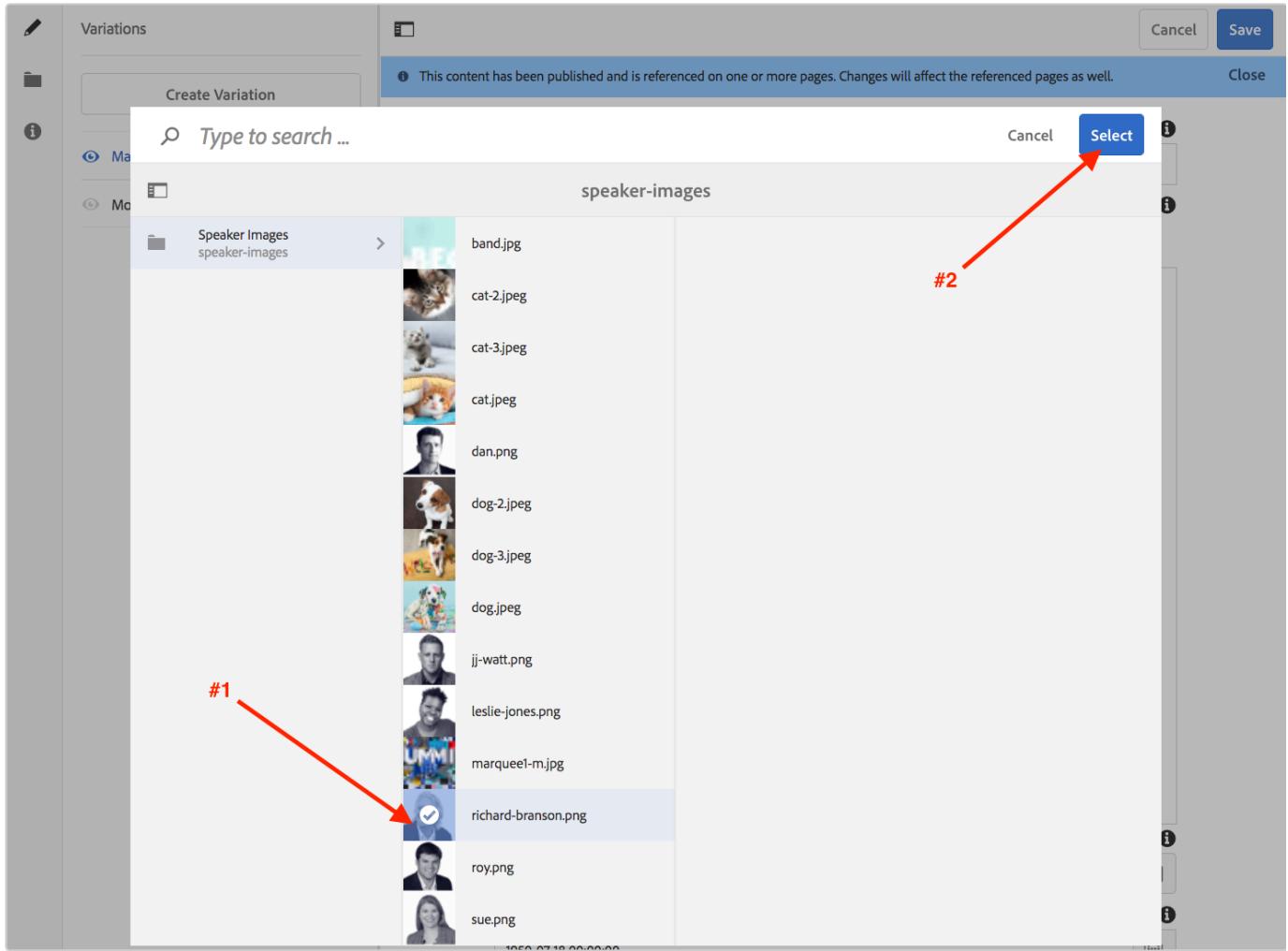
Speaker Headshot
</content/dam/summit-lab-731/speaker-images/cat.jpeg>

Speaker Date of Birth
1950-07-18 00:00

Speaker Name
Leslie Jones
Speaker Byline
Actress, Writer

2. Update the Speaker Headshot by selecting the right image from the Digital Asset Manager (DAM) folder as shown below:





Note: When selecting the image, please click on the thumbnail of the image and then click on "Select" button located in the top right corner of the modal.

3. Save the updated content fragment

This content has been published and is referenced on one or more pages. Changes will affect the referenced pages as well.

Speaker Name
Sir Richard Branson

Speaker Byline

Entrepreneur

Conceived in 1970 by Sir Richard Branson, the Virgin Group has gone on to grow successful businesses in sectors including mobile telephony, travel and transportation, financial services, leisure and entertainment and health and wellness. Virgin is a leading international investment group and one of the world's most recognized and respected brands. Since starting the youth culture magazine Student at age 16, Richard has found entrepreneurial ways to drive positive change in the world.

In 2004 he established Virgin Unite, the non-profit foundation of the Virgin Group, which unites people and entrepreneurial ideas to create opportunities for a better world.

Most of his time is now spent building businesses that will make a positive difference in the world and working with Virgin Unite and organizations it has incubated, such as The Elders, The Carbon War Room, The B Team and Ocean Unite. Branson serves on the Global Commission on Drug Policy and supports ocean conservation with the Ocean Elders. Richard's new biography, Finding My Virginity, is available now.

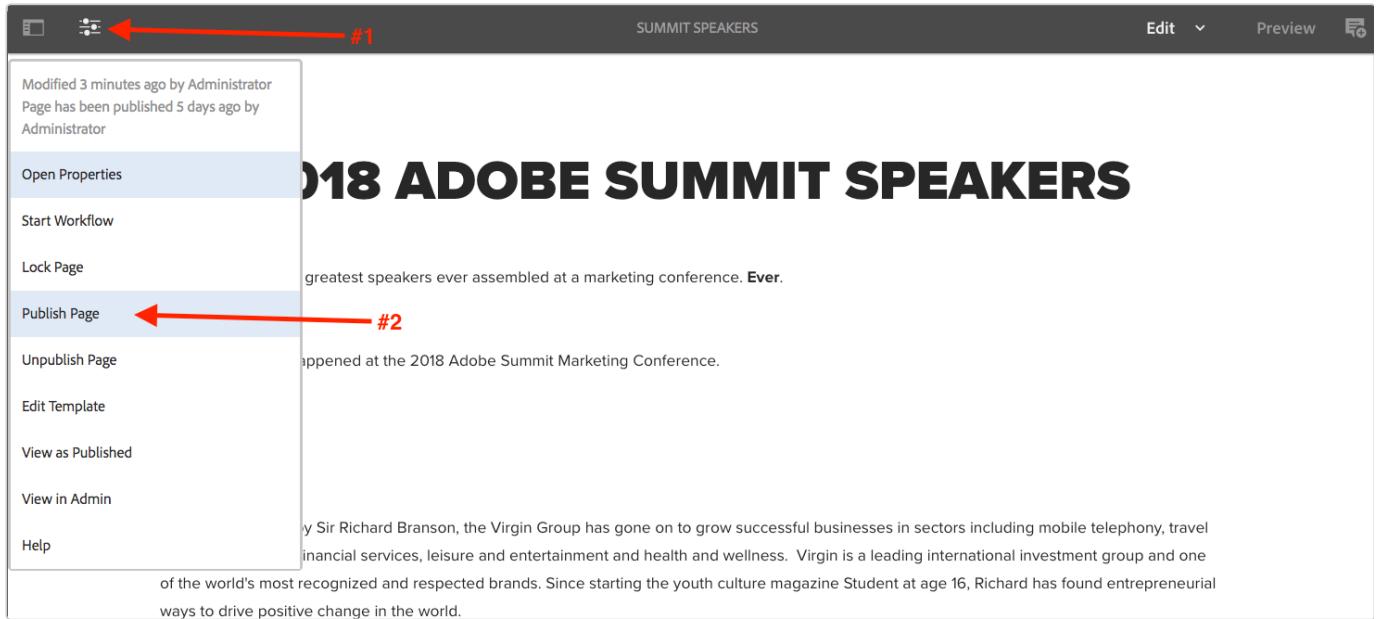
Speaker Headshot

Speaker Date of Birth
1950-07-18 00:00:00

4. Repeat this for all the fragments on the page and update all their images to the right one in the DAM folder.

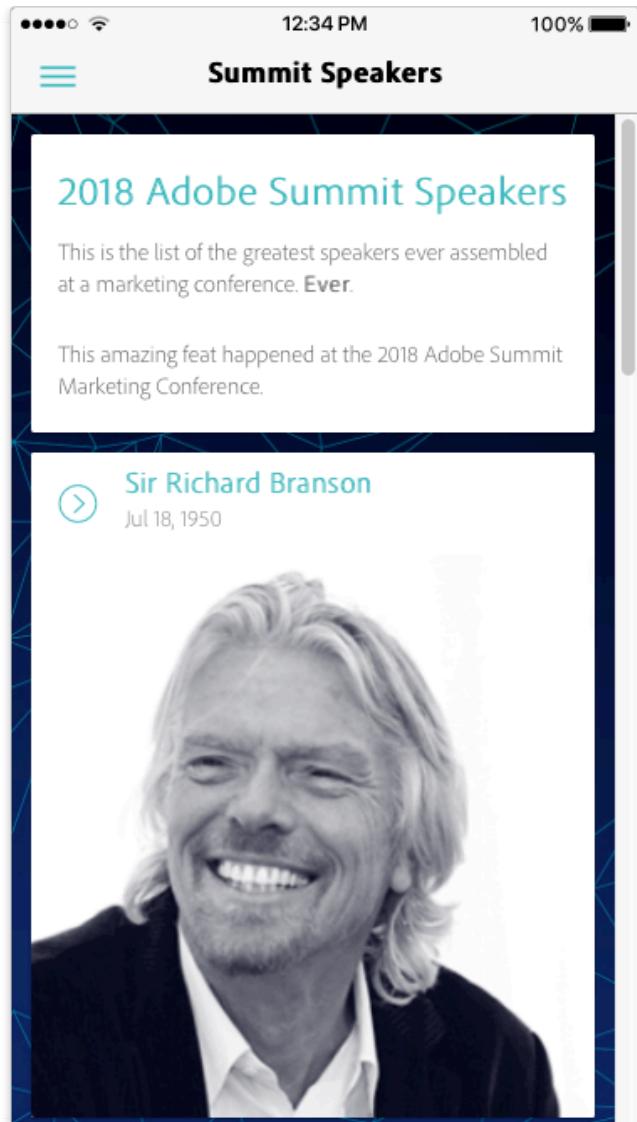
Step 1.4. Publish your changes

From the top-left menu, publish your changes by clicking on "Publish Page" menu option as shown below:



Step 1.5. Preview the Mobile App

Now you should see *right* images show up in the mobile app when you navigate to the Summit Speakers Menu item as shown below:

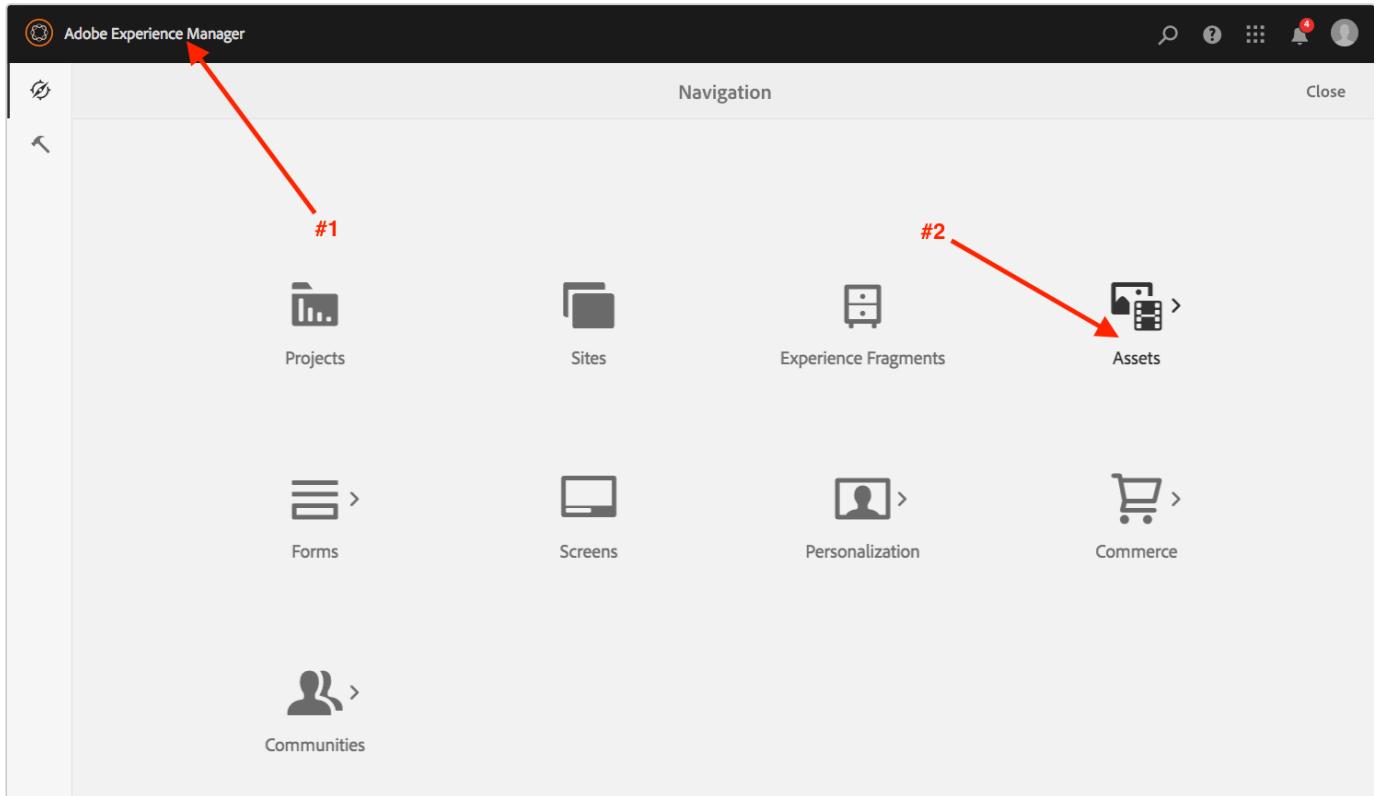


(Optional) Option 2: Edit the Content Fragment by browsing to it from the Assets Console in AEM

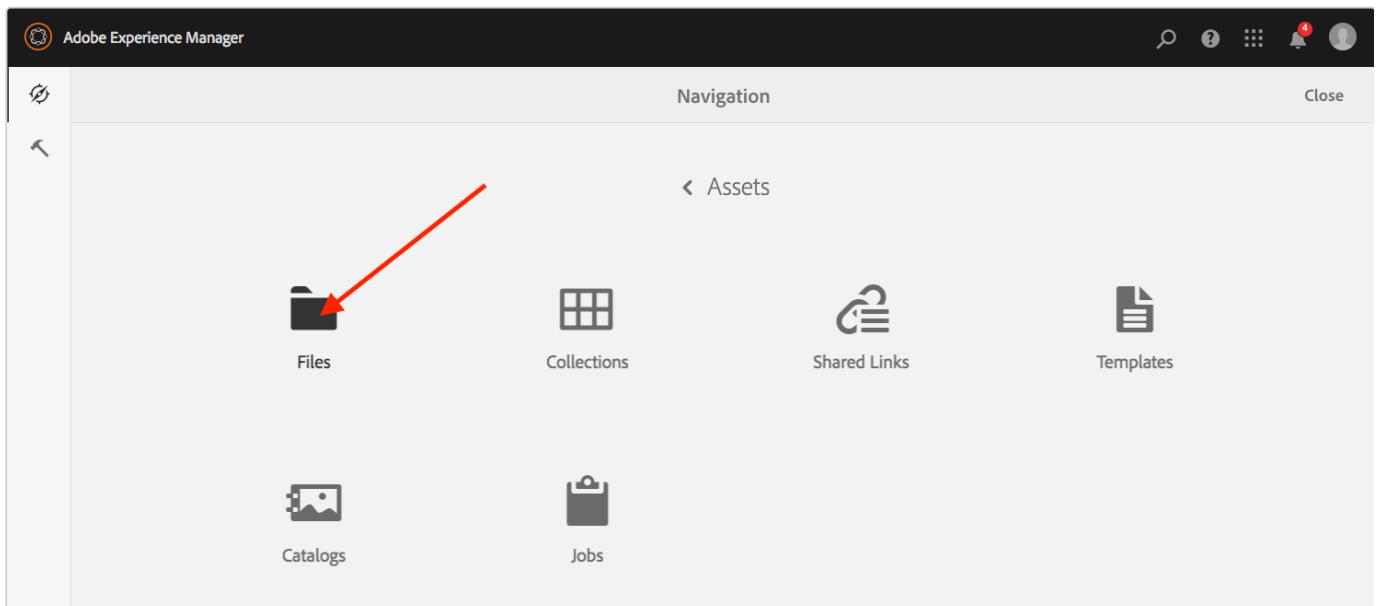
Alternately, I can browse to the folder in the Assets console and edit the content fragments directly there as shown below:

- Step 1: Browse to the Assets console
- Step 2: Select Files View
- Step 3: Select Column View
- Step 4: Browse to the folder with the speaker content fragments
- Step 5: Select a Content Fragment and Click on Edit
- Step 6: Repeat the same for all remaining content fragments
- Step 7: Publish all content fragments
- Step 8: Preview the changes in the mobile app

Step 2.1: Browse to the Assets console:



Step 2.2: Select Files View



Step 2.3. Select Column View

Note: The fastest way around content in AEM is using column view. Select Column View in your view options as shown below:

Step 2.4: Browse to the following path or use the following URL:

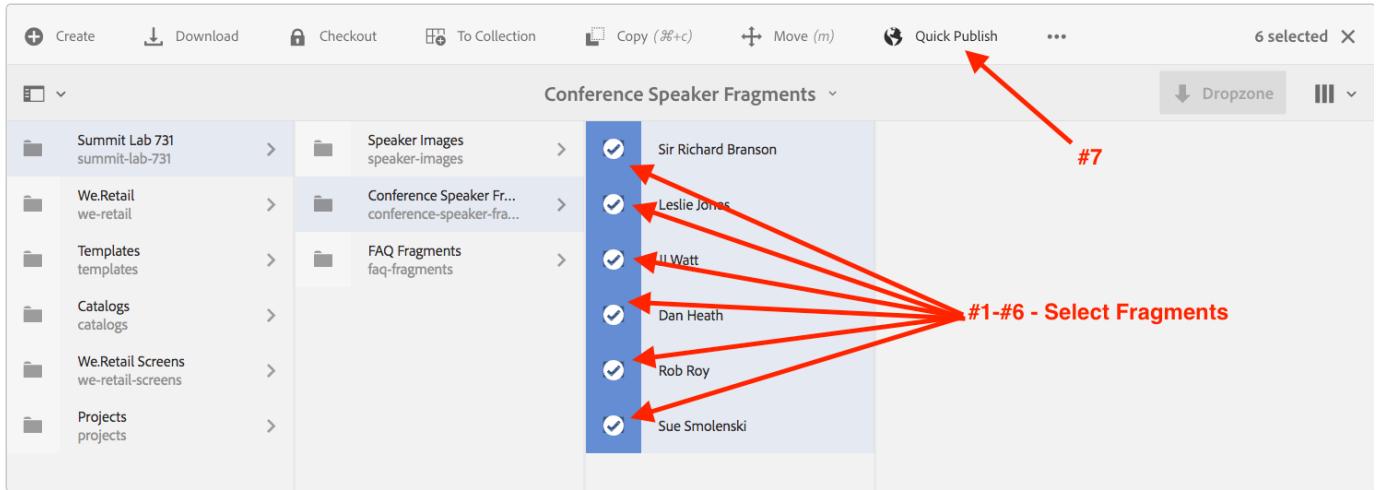
<http://localhost:4502/assets.html/content/dam/summit-lab-731/conference-speaker-fragments>

Step 2.5: Select a Content Fragment and Click on Edit

Title	Name	Modified	Modified By	Publication	Type
Sir Richard Branson	sir-richard-branson	18 minutes ago	Administrator	42 minutes ago	Image
Leslie Jones					Text
JJ Watt					Text
Dan Heath					Text
Rob Roy					Text
Sue Smolenski					Text

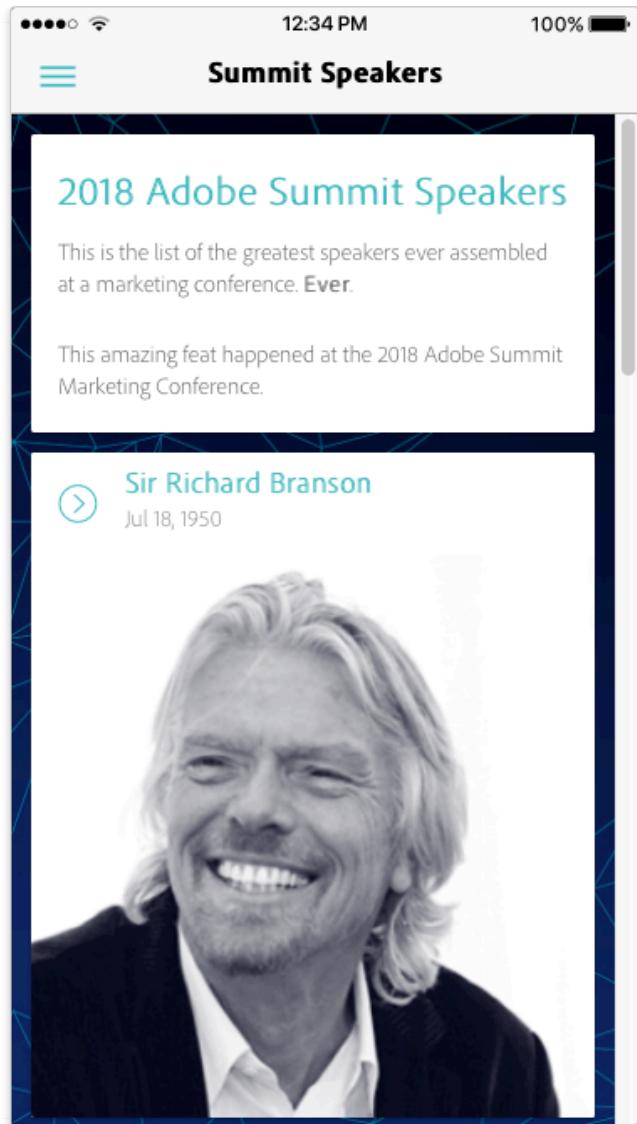
Step 2.6: Repeat the same for all the remaining content fragments

Step 2.7: Quick Publish the content fragments



Step 2.8. Preview the changes in the mobile app

Now you should see *right* images show up in the mobile app when you navigate to the Summit Speakers Menu item as shown below:



Activity 2.5 - Everybody is a Summit Speaker!!

Have you ever wanted to be a Summit Speaker?? Today is your lucky day! This activity involves the following steps:

- Step 1: Create a new speaker content fragment
- Step 2: Fill in your details and save the fragment
- Step 3: Add it to the Speakers API page
- Step 4: Publish the page
- Step 5: Preview the changes in the mobile app

Step 1: Create a new speaker content fragment

1. Browse to the summit speakers content fragment folder in the Assets console:

```
http://localhost:4502/assets.html/content/dam/summit-lab-731/conference-speaker-fragments
```

2. Create a new Speaker fragment based on the Speaker Content Fragment Model

Adobe Experience Manager

Conference Speaker Fragments

#1 → Create

#2 → Content Fragment

The screenshot shows the 'Conference Speaker Fragments' library in Adobe Experience Manager. On the right, a context menu is open with options: 'Folder', 'Files', 'Content Fragment' (which is highlighted and has a red arrow pointing to it), and 'Metadata'. A red arrow also points from the 'Create' button at the top right to the 'Content Fragment' option.

New Content Fragment

Template Properties

Cancel Next

#2

#1

This screenshot shows the 'New Content Fragment' dialog. It includes tabs for 'Template' and 'Properties'. On the left, there's a preview area showing a green circle with 'FAQ' and a hand holding a megaphone over a blue circle labeled 'Conference Speaker'. Below the preview are tabs for 'Simple Fragment' and 'FAQ Item'. At the bottom right are 'Cancel' and 'Next' buttons, with a red arrow pointing from the 'Next' button to the 'Properties' tab.

New Content Fragment

Template Properties

Back Create

#3

#1

#2

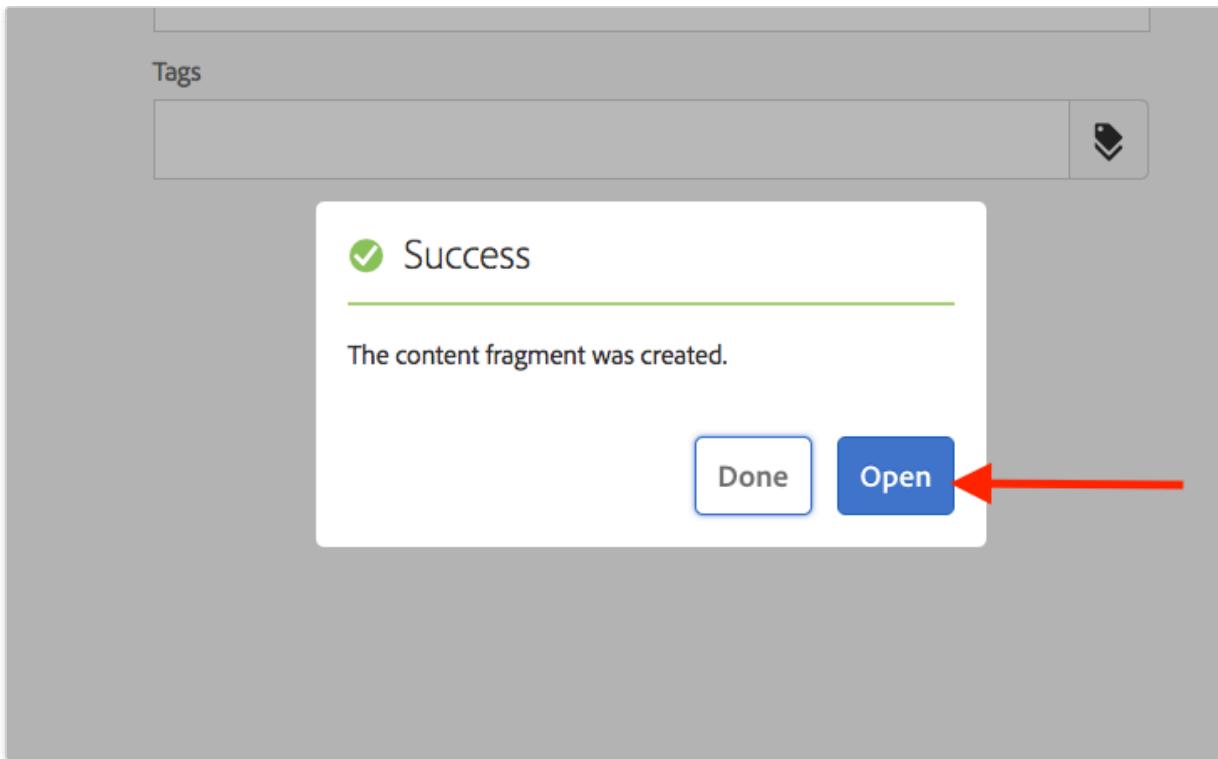
BASIC ADVANCED

Title *

Description

Tags

This screenshot shows the 'New Content Fragment' dialog in 'BASIC' mode. It features tabs for 'BASIC' and 'ADVANCED'. Under the 'BASIC' tab, there are fields for 'Title *' (containing 'Amol Anand') and 'Description' (containing 'Adobe Employee'). A red arrow points from the 'Create' button at the top right to the 'Title' field. Another red arrow points from the 'Title' field to the 'Description' field. A third red arrow points from the 'Description' field to the 'Tags' field below it.



Step 2: Fill in your details and save the fragment

A screenshot of a speaker details form. On the left, there's a sidebar with icons for edit, delete, and info, followed by a 'Variations' section with a 'Create Variation' button and a 'Master' link. The main area contains the following fields:

- #1** Speaker Name: Amol Anand
- #2** Speaker Byline: More than 11 years of experience in the Content Management space.
- #3** Speaker Headshot: A file path: /content/dam/summit-lab-731/speaker-images/cat.jpeg. To the right is a checkbox icon with a checked box.
- #4** Speaker Date of Birth: 2018-03-29 00:00:00. To the right is a calendar icon.

At the top right of the form are 'Cancel' and 'Save' buttons. A red arrow points from the text 'Step 2: Fill in your details and save the fragment' to the 'Save' button.

Step 3: Add it to the Speakers AEM page

1. Edit the Speakers AEM Page <http://localhost:4502/editor.html/content/we-retail/us/en/api/speakers.html>
2. Open the left rail and drag the content fragment component to the page below the Title & Text components and above the existing fragments.

3. Drag the new fragment you just created in the previous Step to the Content Fragment component you just dragged onto the page

The screenshot shows the AEM Assets interface. On the left, there's a tree view with categories like Images, Videos, Products, Documents, Paragraphs, and Content Fragments. The 'Content Fragments' category is highlighted with a blue background and has a red arrow pointing to it labeled '#2'. At the top right, the page title is 'SUMMIT SPEAKERS' and the page content displays the heading '2018 ADOBE SUMMIT SPEAKERS' and some descriptive text.

This screenshot shows the AEM Assets interface with the 'Content Fragments' filter selected in the sidebar, indicated by a blue border and a red arrow labeled '#1'. A specific content fragment item for 'Amol Anand' is selected, showing details like 'More than 11 years of experience in the Content Management...' and a 'Speaker Name' field. The main content area shows the '2018 ADOBE SUMMIT SPEAKERS' heading and some descriptive text. A red arrow labeled '#1' points from the 'Content Fragments' filter in the sidebar to the 'Speaker Name' field in the content area.

Step 4: Publish the page

From the top-left menu, publish your changes by clicking on "Publish Page" menu option as shown below:

Modified 3 minutes ago by Administrator
Page has been published 5 days ago by Administrator

Open Properties

Start Workflow

Lock Page

Publish Page **#2**

Unpublish Page

Edit Template

View as Published

View in Admin

Help

2018 ADOBE SUMMIT SPEAKERS

greatest speakers ever assembled at a marketing conference. Ever.

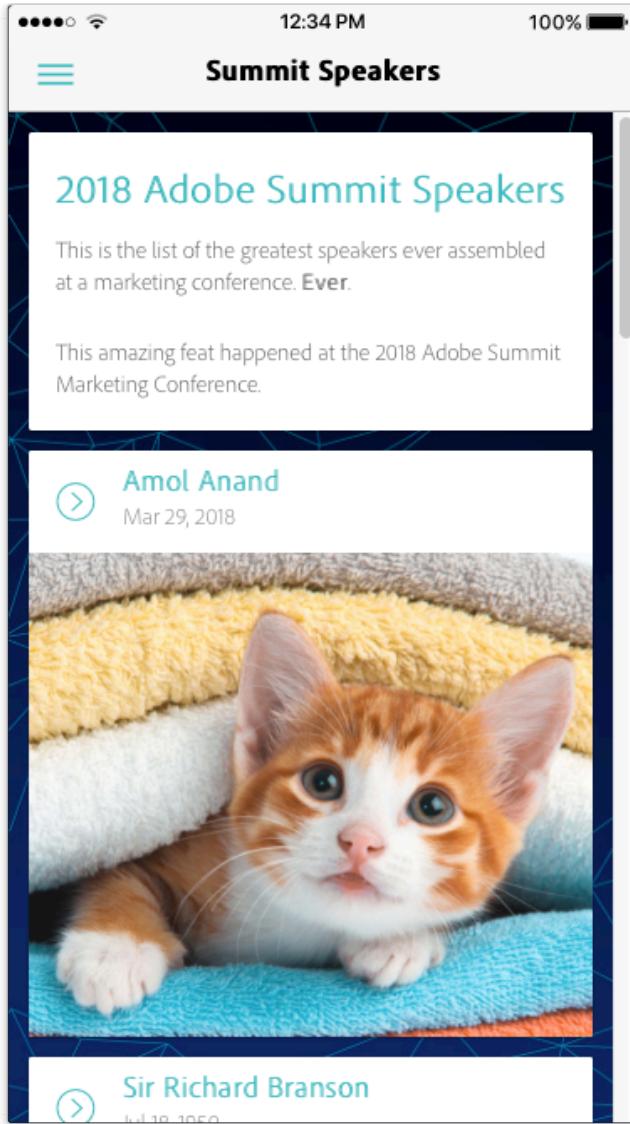
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Step 5: Preview the changes in the mobile app

Now when you preview the changes in the mobile app, you should see the latest speaker show up on top.



Chapter 3 - Content Services: Sling Model Exporter

This chapter covers headless delivery of existing content in AEM using **Sling Model Exporter (SME)**. In this case we will try to expose Product Category Hierarchy as JSON so that our mobile app can consume that and display a mobile-first view to browsing products.

Definition

Sling Model Exporter (SME) - Apache Sling Models 1.3.0 introduces Sling Model Exporter, an elegant way to export or serialize Sling Model objects into custom abstractions

Scenario

Compare the OOTB JSON from AEM with JSON created by a custom Sling Model Exporter and view the differences.

Activity 3.1 - OOTB Products JSON

First let's look at the content we are trying to expose in HTML. Follow the link below to look at the products HTML

```
http://localhost:4502/editor.html/content/we-retail/us/en/products.html
```

Follow the link below to look at the products OOTB JSON:

```
http://localhost:4502/editor.html/content/we-retail/us/en/products.json
```

Note: The Default JSON output in AEM only gives information about the particular resource in question. You can get more information if you append a selector like .4.json or .5.json to go 4 to 5 levels deep from the particular resource.

Follow the link below to look at the products OOTB JSON 5 levels deep:

```
http://localhost:4502/editor.html/content/we-retail/us/en/products.5.json
```

Pro Tip: From a security standpoint, we advise you not to use the .4.json or .infinity.json selectors because it could potentially slow down the server trying to output a whole lot of content un-intentionally. So if your Dispatcher was setup securely, you would not be able to view this URL from the publish side. This is just for educational purposes.

Activity 3.2 - Custom Sling Model Exporter generated JSON

Now let's compare the existing JSON output to the JSON output from our custom Sling Model Exporter as shown below:

```
http://localhost:4502/editor.html/content/we-retail/us/en/products/_jcr_content.api.json
```

Now compare this JSON with the JSON from the previous step. What a world of difference some custom code can make.

Note: Sling Model Exporter attaches itself to a resource type and automatically gives us the ability to pick and choose any property available at that resource level. It also allows us to run some business logic and maybe even get related content not located at that particular resource. This is a very powerful and custom tool that can be used to navigate tricky content and still expose well-structured JSON to be used by 3rd party applications in a headless manner.

Activity 3.3 - Custom Sling Model Exporter Java Class

Let's navigate to and open up the Sling Model Exporter Java Class that is allowing us to expose all this information.

```
~/Desktop/summit-L731/summit-L731-aem/core/src/main/java/com/adobe/summit/1731/models/ProductListModel.java
```

Look at the Resource Type it attaches to. In this case `resourceType = "weretail/components/structure/page"`

Look at the Exporter extension `extensions = "json"`

Look at the Exporter selector `selector = "api"`

Pro-Tip 1: If you don't specify a selector, the default selector is "model" which is also the default selector for the Core Components and templates we used in Chapter 2. Best Practice is to specify a selector so you can have multiple JSON outputs for the same resource and avoid clashing with the OOTB .model.json selector.

Pro-Tip 2: If you already have custom components that use Sling Models, By adding the Exporter annotations, you can easily convert these components into Core-like components where we can get structured JSON output when we hit the .model.json on the page containing the custom components.

Activity 3.4 - Preview Products in the Mobile App

Open up the Mobile App preview on your browser and navigate to the Products tab in the menu to see all the products being served from AEM using our custom Sling Model Exporter.

Take a look at the code at the following location: `app/src/pages/sme-overview/sme-overview.html`

References

Sling Model Exporter

Overview: <https://helpx.adobe.com/experience-manager/kt/platform-repository/using/sling-model-exporter-tutorial-understand.html>

Develop: <https://helpx.adobe.com/experience-manager/kt/platform-repository/using/sling-model-exporter-tutorial-develop.html>

AEM Content Services

<https://helpx.adobe.com/experience-manager/kt/sites/using/content-services-tutorial-use.html>

Content Fragment Models

<https://helpx.adobe.com/experience-manager/6-3/release-notes/content-fragment-models-fp.html>

Enabling JSON Export for a component

<https://helpx.adobe.com/experience-manager/6-3/release-notes/json-exporter-dev-fp.html>