# **S** Tutorialr.com

# Spotify for Developers Search & Browse



#### Search for an Item

Get Spotify Catalogue information about albums, artists, playlists, tracks, shows or episodes that match a query string.

GET https://api.spotify.com/v1/search?q=tania%20bowra&type=artist						
Header						
Authorization Valid Access Token from Spotify Accounts service						
	Query Parameter					
q	Query keywords, optional field filters and operators					
type	A comma-separated list of item types to search across. Valid types are: album, artist, playlist, track, show and episode					
market	ISO 3166-1 alpha-2 country code					
limit	Maximum number of results to return					
offset	Index of first result to return					
include_external	"audio" includes any relevant audio content that is hosted externally					

Header Response						
	Success					
HTTP Status 200 OK	Array of Artist Objects / Simplified Album Objects / Track Objects / Simplified Show Object / Simplified Episode Object wrapped in a Paging Object					
	Error					
Error Code	Error Object					
Step 1	In <b>Windows 10</b> choose <b>Start</b> and then from the <b>Start</b>					

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	arsigma Type here to search

In Windows 10 choose Start, and then from the Start Menu find and select Visual Studio 2019

) Open a <u>p</u>roject or solution

Open a local Visual Studio project or .sln file

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Once done, from the **Get started** screen for **Visual Studio 2019** select **Open a project or solution** 

Then locate and select **SpotifyForDevelopers.sln** and select **Open** if you don't have this file already then please follow the previous parts of the workshop including **Getting Started** and **Authorisation Guide** 







Once opened, in the **Solution Explorer** open the **Pages** section, then open the **Index.cshtml** section and select **Index.cshtml.cs** 

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Then from the Menu choose View and then Open





In the **Code View** for **Index.cshtml.cs** below the **method** for public async Task<IActionResult> OnPostClientCredentialsAsync() { ... } enter the following **method**:

```
public async Task<IActionResult> OnPostSearchForAnItemAsync(string value, string option)
{
    LoadToken();
    var results = new List<Result>();
    var search = await Api.SearchForItemAsync(value,
    new SearchType()
    {
        Album = option.Contains("Album"),
        Track = option.Contains("Track"),
        Artist = option.Contains("Artist"),
        Playlist = option.Contains("Playlist"),
        Show = option.Contains("Show"),
        Episode = option.Contains("Episode")
    }, country);
    if (search?.Albums?.Items != null)
    {
        results.AddRange(search.Albums.Items.Select(result => new Result(
            result.Id, result.Name, result?.Images?.FirstOrDefault()?.Url,
            new Result(result?.Artists[0]?.Id, result?.Artists[0]?.Name))));
    }
    if (search?.Tracks?.Items != null)
    {
        results.AddRange(search.Tracks.Items.Select(result => new Result(
            result.Id, result.Name, result.Album?.Images?.FirstOrDefault()?.Url,
            new Result(result?.Artists[0]?.Id, result?.Artists[0]?.Name))));
    }
    if (search?.Artists?.Items != null)
    {
        results.AddRange(search.Artists.Items.Select(result => new Result(
            result.Id, result.Name, result?.Images?.FirstOrDefault()?.Url)));
    }
    if (search?.Playlists?.Items != null)
    {
        results.AddRange(search.Playlists.Items.Select(result => new Result(
            result.Id, result.Name, result?.Images?.FirstOrDefault()?.Url)));
    }
    if (search?.Shows?.Items != null)
    {
        results.AddRange(search.Shows.Items.Select(result => new Result(
            result.Id, result.Name, result?.Images?.FirstOrDefault()?.Url)));
    }
    if (search?.Episodes?.Items != null)
    {
        results.AddRange(search.Episodes.Items.Select(result => new Result(
            result.Id, result.Name, result?.Images?.FirstOrDefault()?.Url)));
    }
    if (results.Any())
        Results = results;
    return Page();
}
```

The **method** for OnPostSearchForAnItemAsync is used to find any **track**, **artist**, **album** or **playlist** and populates **property** for Results accordingly.







### In the **Solution Explorer** in the **Pages** section select **Index.cshtml**

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Then from the Menu choose View and then Open

#### Step 7

Once in the **Code View** for **Index.cshtml** above <!-- Spotify Web API App Authorisation --> enter the following:

```
class="list-group-item list-group-item-primary">
       <h5 class="list-group-item-heading">Search</h5>
   <form asp-page-handler="SearchForAnItem" method="post">
          <select asp-for="Option" class="form-control mb-2">
              <option>Album</option>
              <option>Track</option>
              <option>Artist</option>
              <option>Playlist
              <option>Show</option>
              <option>Episode</option>
          </select>
          <input asp-for="Value" placeholder="Query" class="form-control mb-2" />
          <button class="btn btn-primary mb-2">
             Search For An Item
          </button>
       </form>
```

This form will **post** to the **method** for SearchForAnItemAsync and has a select list to choose an option to search for and an input for the Query.

Step 8

▶ Local Machine ▼



Once the **Web Application** is running and you select **Client Credentials Flow Login** you should see something like the following:

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		Authorisation Code Flow Login	Implicit Gra	nt Flow Login	Client Credentials Flow Login				
	Spotify V	Veb API App Author	isation						
	Search								
	Album		~						
	Query								
	Search For An	Item							

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#### Step 10

You can then search for something, such as an **Album** and select **Search For An Item** then scroll down to view **Results** like the following:

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	Result	ts							
	Image	Id	Name	Id	Name				
	R	0a3YQpBnRzJzNktOjb6Dum	Tubular Bells	562Od3CffWedyz2BbeYWVn	Mike Oldfield				
	·	3DSrfmHKb8WWgrX1Mvsx6K	Tubular Bells III	562Od3CffWedyz2BbeYWVn	Mike Oldfield				
	×	0Z9Uio2xZCDztGCuozTPaH	Tubular Bells II	562Od3CffWedyz2BbeYWVn	Mike Oldfield				
	R	5Ia5ZHbCHt0TPhaK51WQbk	Tubular Bells Digital Box Set	562Od3CffWedyz2BbeYWVn	Mike Oldfield				
		3Y0owtupHhevOoAJYjOJtw	Tubular Bells (Main Theme from "The Exorcist")	562Od3CffWedyz2BbeYWVn	Mike Oldfield				
		5DO9HIsV6DDQRycDUcYAcI	Tubular Bells (Main Theme From "The Exorcist")	562Od3CffWedyz2BbeYWVn	Mike Oldfield				
	TUBULAR BELLS	7ivJymge2PYPehrTuHetVd	Tubular Bells	13zMJzvT52jSqyjpTo8lu9	Tommy Johnson				
		0kNi8xwlUu4AyEFpjlwWsB	Tubular Bells	6XUsHXJICN5TBqucfGCuXL	The Children of Ireland				
	N.	2JkXjiDpYsKoN9OSPlfaah	Tubular Bells	1U1TalQDOocrSN8SCiUkgG	Tubular Brass				
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You can choose to exit **Visual Studio 2019** by selecting the **Close** button in the top right of the **application** as that completes this part of the workshop





#### **Get All Categories**

Get a list of categories used to tag items in Spotify, as shown in the Spotify player's "Browse" tab.

GET https://api.spotify.com/v1/browse/categories						
	Header					
Authorization	Authorization Valid Access Token from Spotify Accounts service					
	Query Parameter					
country	ISO 3166-1 alpha-2 country code e.g. "GB". If omitted globally relevant items returned					
locale	Desired language, consisting of ISO 639-1 language code and ISO 3166-1 alpha-2 country code, joined by an underscore e.g. "en_GB". If omitted results returned in American English					
limit	Maximum number of results to return					
offset	Index of first result to return					

Header	Response						
	Success						
HTTP Status 200 OK	Categories field with an array of Category Objects wrapped in a Paging Object						
	Error						
Error Code	Error Object						
Step 1							



Open a project or solution

Open a local Visual Studio project or .sln file

If you chose to close **Visual Studio 2019** previously, in **Windows 10** choose **Start**, and then from the **Start Menu** find and select **Visual Studio 2019** 

Once done, from the **Get started** screen for **Visual Studio 2019** select **Open a project or solution** 

Open Project/Solution		×
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Documents	SpotifyForDevelopers.sln	22/01/2020 19:52
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		,
File <u>n</u>	ame: SpotifyForDevelopers.sln	✓ All Project Files (*.sln;*.dsw;*.vcw ∨
	Do not load projec	cts Qpen Cancel

Then locate and select **SpotifyForDevelopers.sln** and select **Open** if you don't have this file already then please follow the previous parts of the workshop including **Getting Started**, **Authorisation Guide** and **Search & Browse** 







Once opened, in the **Solution Explorer** open the **Pages** section, then open the **Index.cshtml** section and select **Index.cshtml.cs** 

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Then from the Menu choose View and then Open

#### Step 4

In the **Code View** for **Index.cshtml.cs** below the **method** for public async Task<IActionResult> OnPostSearchForAnItemAsync(...) { ... } enter the following **method**:

```
public async Task<IActionResult> OnPostGetAllCategoriesAsync()
{
    LoadToken();
    var results = await Api.GetAllCategoriesAsync(country);
    if (results?.Items != null)
    {
        Results = results.Items.Select(result => new Result()
        {
            Id = result.Id,
            Name = result.Name,
            Image = result.Images?.FirstOrDefault()?.Url
        });
    }
    return Page();
}
```

The **method** for OnPostGetAllCategoriesAsync is used to get all the **categories** on Spotify and populate the **property** for Results accordingly.







## In the **Solution Explorer** in the **Pages** section select **Index.cshtml**

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Then from the **Menu** choose **View** and then **Open** 

#### Step 7

Once in the **Code View** for **Index.cshtml** above <!-- Spotify Web API App Authorisation --> enter the following:

This form will **post** to the **method** for GetAllCategoriesAsync and will output to the **Results**.

Step 8

▶ Local Machine ▼





Once the **Web Application** is running and you select **Client Credentials Flow Login** you should see something like the following:

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Spotify Web API App Authorisation				
Search				
Album				
Query				
Search For An Item				
Browse				
Get All Categories				

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#### Step 10

You can then select Get All Categories and scroll down to view Results like the following:

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	Results			
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		rock	Rock	
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Step 11				
			You can stop the <b>2019</b> by selectin	e <b>web application</b> in <b>Visual Studio</b> g the <b>Stop debugging</b> button
Step 12				
		×	You can choose the <b>Close</b> buttor that completes t	to exit <b>Visual Studio 2019</b> by selecting in the top right of the <b>application</b> as his part of the workshop





#### Get a Category

Get a single category used to tag items in Spotify, as shown in the Spotify player's "Browse" tab.

	GET https://api.spotify.com/v1/browse/categories/{category_id}					
	Header					
Authorization	Valid Access Token from Spotify Accounts service					
Path Parameter						
category_id	Spotify category ID for the category					
Query Parameter						
country	ISO 3166-1 alpha-2 country code e.g. "GB". If omitted globally relevant items returned					
locale	Desired language, consisting of ISO 639-1 language code and ISO 3166-1 alpha-2 country					
iocaic	code joined by an underscore e.g. "en_GB". If omitted results returned in American English					

Response						
Success						
Category Object						
Error						
Error Object						

Step 1



If you chose to close **Visual Studio 2019** previously, in **Windows 10** choose **Start**, and then from the **Start Menu** find and select **Visual Studio 2019** 

Open a <u>p</u>roject or solution

Open a local Visual Studio project or .sln file

Open Project/Solution		×
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	Do not load projects	Open Cancel

Once done, from the **Get started** screen for **Visual Studio 2019** select **Open a project or solution** 

Then locate and select **SpotifyForDevelopers.sln** and select **Open** if you don't have this file already then please follow the previous parts of the workshop including **Getting Started**, **Authorisation Guide** and **Search & Browse** 







Once opened, in the **Solution Explorer** open the **Pages** section, then open the **Index.cshtml** section and select **Index.cshtml.cs** 

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Then from the Menu choose View and then Open

#### Step 4

In the **Code View** for **Index.cshtml.cs** below the **method** for public async Task<IActionResult> OnPostGetAllCategoriesAsync() { ... } enter the following **method**:

```
public async Task<IActionResult> OnPostGetCategoryAsync(string value)
{
    LoadToken();
    var result = await Api.GetCategoryAsync(value);
    if (result != null)
    {
        Results = new List<Result> { new Result()
        {
            Id = result.Id,
            Name = result.Name,
            Image = result.Images?.FirstOrDefault()?.Url
        }};
    }
    return Page();
}
```

The **method** for OnPostGetCategoryAsync is used to get a **category** by **Category Id** on Spotify with the value and populate the **property** for Results accordingly.







# In the **Solution Explorer** in the **Pages** section select **Index.cshtml**

Step 6

View	Project	Build	Debug	Test	Analyze	
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Then from the **Menu** choose **View** and then **Open** 

#### Step 7

Once in the **Code View** for **Index.cshtml** above <!-- Browse --> enter the following:

```
        <form asp-page-handler="GetCategory" method="post">
            <input asp-for="Value" placeholder="Category Id" class="form-control mb-2" />
            <button class="btn btn-primary mb-2">
                Get Category
               </button>
               </form>
```

This form will **post** to the **method** for OnPostGetCategoryAsync with the Value as the **Category Id** and will output to the **Results**.

Step 8

🕨 Local Machine 🔻





Once the Web Application is running and you select Client Credentials Flow Login you should see something like the following:

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	Spotify Web API App Authorisation				
	Search				
	Album				
	Query				
	Search For An Item				
	Browse				
	Get All Categories				
	Category Id				
	Get Category				

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#### Step 10

You can then enter a Category Id from Get All Categories and select Get Category and scroll down to view Results like the following:

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	×		the <b>Close</b> button i	n the top right	of the <b>applicatio</b>
			that completes thi	s part of the wo	orkshop
			that completes th	s part of the We	inghop



#### Get a Category's Playlists

Get a list of Spotify playlists tagged with a category.

GET https://api.spotify.com/v1/browse/categories/{category_id}/playlists				
Header				
Authorization	Valid Access Token from Spotify Accounts service			
	Path Parameter			
category_id	category_id Spotify category ID for the category			
	Query Parameter			
country	ISO 3166-1 alpha-2 country code e.g. "GB". If omitted globally relevant items returned			
limit	Maximum number of results to return			
offset	Index of first result to return			

Header Response				
	Success			
HTTP Status 200 OK	Array of Simplified Playlist Objects wrapped in a Paging Object			
	Error			
Error Code	Error Object			
Step 1				



Open a project or solution

Open a local Visual Studio project or .sln file

If you chose to close **Visual Studio 2019** previously, in **Windows 10** choose **Start**, and then from the **Start Menu** find and select **Visual Studio 2019** 

#### Once done, from the **Get started** screen for **Visual Studio 2019** select **Open a project or solution**

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Then locate and select **SpotifyForDevelopers.sln** and select **Open** if you don't have this file already then please follow the previous parts of the workshop including **Getting Started**, **Authorisation Guide** and **Search & Browse** 







Once opened, in the **Solution Explorer** open the **Pages** section, then open the **Index.cshtml** section and select **Index.cshtml.cs** 

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Then from the Menu choose View and then Open

#### Step 4

In the **Code View** for **Index.cshtml.cs** below the **method** for public async Task<IActionResult> OnPostGetCategoryAsync() { ... } enter the following **method**:

```
public async Task<IActionResult> OnPostGetCategoryPlaylistsAsync(string value)
{
    LoadToken();
    var results = await Api.GetCategoryPlaylistsAsync(value);
    if (results?.Items != null)
    {
        Results = results.Items.Select(result => new Result()
        {
            Id = result.Id,
            Name = result.Name,
            Image = result?.Images?.FirstOrDefault()?.Url
        });
    }
    return Page();
}
```

The **method** for OnPostGetCategoryPlaylistsAsync is used to get the **playlists** for a **category** by **Category Id** on Spotify with the value and populate the **property** for Results accordingly.







In the **Solution Explorer** in the **Pages** section select **Index.cshtml** 

#### Step 6

View	Project	Build	Debug	Test	Analyze	
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Then from the **Menu** choose **View** and then **Open** 

#### Step 7

Once in the **Code View** for **Index.cshtml** above <!-- Browse --> enter the following:

```
class="list-group-item">
        <form asp-page-handler="GetCategoryPlaylists" method="post">
        <input asp-for="Value" placeholder="Category Id" class="form-control mb-2" />
        <button class="btn btn-primary mb-2">
        Get Category Playlists
        </button>
        </form>
```

This form will **post** to the **method** for OnPostGetCategoryPlaylistsAsync with the Value as the **Category Id** and will output to the **Results**.

Step 8

Local Machine





Once the Web Application is running and you select Client Credentials Flow Login and scroll down you should see something like the following:

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	Spotify Web API App Authorisation				
	Search				
	Album				
	Query				
	Search For An Item				
	Browse				
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	Get Category				
	Category Id				
	Get Category Playlists				
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#### Step 10

You can then enter a Category Id from Get All Categories and select Get Category Playlists and scroll down to view **Results** like the following:





#### **Get Recommendation Genres**

Retrieve a list of available genres seed parameter values for recommendations.

G	ET https://api.spotify.com/v1/recommendations/available-genre-seeds
	Header
Authorization	Valid Access Token from Spotify Accounts service

Header	Response			
	Success			
HTTP Status 200 OK	TP Status 200 OK Array of Genre Seeds			
	Error			
Error Code	Error Object			

#### Step 1

Φ	Visual Studio 2019
	$ \mathcal{P} $ Type here to search

Open a project or solution

Open a local Visual Studio project or .sln file

If you chose to close **Visual Studio 2019** previously, in **Windows 10** choose **Start**, and then from the **Start Menu** find and select **Visual Studio 2019** 

Once done, from the **Get started** screen for **Visual Studio 2019** select **Open a project or solution** 

Open Project/Solution							×
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Documents		SpotifyForDevelopers.sln			22/01/	2020 19:52	
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Music							
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📑 Videos							
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File <u>n</u>	ame:	SpotifyForDevelopers.sln	~	All Project	Files (*.:	ln;*.dsw;*.vo	w v
		Do not load proje	cts	Oper	1	Cancel	

Then locate and select **SpotifyForDevelopers.sln** and select **Open** if you don't have this file already then please follow the previous parts of the workshop including **Getting Started**, **Authorisation Guide** and **Search & Browse** 







Once opened, in the **Solution Explorer** open the **Pages** section, then open the **Index.cshtml** section and select **Index.cshtml.cs** 

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Then from the Menu choose View and then Open

#### Step 4

In the **Code View** for **Index.cshtml.cs** below the **method** for public async Task<IActionResult> OnPostGetCategoryPlaylistsAsync() { ... } enter the following **method**:

```
public async Task<IActionResult> OnPostGetRecommendationGenresAsync()
{
    LoadToken();
    var results = await Api.GetRecommendationGenresAsync();
    if (results?.Genres != null)
    {
        Results = results.Genres.Select(result => new Result()
        {
            Id = result
            });
        }
        return Page();
}
```

The **method** for OnPostGetRecommendationGenresAsync is used to get the **genres** for **recoomendations** on Spotify and populate the **property** for Results accordingly.







In the **Solution Explorer** in the **Pages** section select **Index.cshtml** 

#### Step 6

View	Project	Build	Debug	Test	Analyze
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Then from the **Menu** choose **View** and then **Open** 

#### Step 7

Once in the **Code View** for **Index.cshtml** above <!-- Browse --> enter the following:

```
        <form asp-page-handler="GetRecommendationGenres" method="post">
        <button class="btn btn-primary mb-2">
        Get Recommendation Genres
        </button>
        </form>
```

This form will **post** to the **method** for OnPostGetRecommendationGenresAsync and will output to the **Results**.

Step 8

🕨 Local Machine 🔻





Once the **Web Application** is running and you select **Client Credentials Flow Login** and scroll down you should see something like the following:

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$\leftrightarrow$ $\rightarrow$ O $\triangle$ https://localhost.44395/?handler=clientcredentials	☆		C	
Authorisation Code Flow Login Implicit Grant Flow Login Client Credentials Flow Login				^
Spotify Web API App Authorisation				
Search				4
Album     ~       Query				
Browse				
Get All Categories				
Category Id Get Category				
Category Id Get Category Playlists				
Get Recommendation Genres				
© 2020 - SpotifyForDevelopers - Privacy				

#### Step 10

#### You can select Get Recommendation Genres and scroll down to view Results like the following:

Spotify for Developers -	Spotify: × +				-	٥	×			
$\leftarrow$ $\rightarrow$ 0 $\in$	https://localhost:44395/?handler=GetRecommendationGe	nres		☆	r⁄≡	0				
	Results						^			
	Id									
	acoustic						1			
	afrobeat									
	alt-rock						1			
	alternative									
	ambient									
	anime									
	black-metal									
	bluegrass									
	blues									
	bossanova									
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Step 11				_						
			You can stop the <b>w</b> o <b>2019</b> by selecting the	eb aj ne St	ppl top	ica de	atio ebu	<b>1</b> in Visua gging bu	al Studio tton	D
Step 12										
·	×		You can choose to e the <b>Close</b> button in that completes this	exit <b>\</b> the <sup>-</sup> part	<b>/isu</b> top of	u <b>al</b> o rig the	Stu ght o e wo	<b>dio 2019</b> of the <b>ap</b> p orkshop	) by sele plicatio	cting <b>n</b> as

🛇 Tutorialr.com



#### **Get Recommendations**

Recommendations are generated based on the available information for a given seed entity and matched against similar artists and tracks. If there is enough information about the provided seeds, a list of tracks will be returned together with pool size details.

	GET https://api.spotify.com/v1/recommendations						
	Header						
Authorization	Authorization Valid Access Token from Spotify Accounts service						
	Query Parameter						
seed_artists	Comma separated list of Spotify IDs for seed artists. Up to 5 seed values may be provided in any combination of seed_artists, seed_tracks and seed_genres						
seed_genres	Comma separated list of any genres in the set of available genre seeds. Up to 5 seed values may be provided in any combination of seed_artists, seed_tracks and seed_genres						
seed_tracks	Comma separated list of Spotify IDs for a seed track. Up to 5 seed values may be provided in any combination of seed_artists, seed_tracks and seed_genres						
limit	Maximum number of results to return						
market	ISO 3166-1 alpha-2 country code e.g. "GB". Provide to enable Track Relinking						
min_*	For each Tuneable Track attribute, a hard floor on the selected track attribute's value can be provided						
max_*	For each Tuneable Track attribute, a hard ceiling on the selected track attribute's value can be provided						
target_*	For each of the Tuneable Track attributes a target value may be provided. Tracks with the attribute values nearest to the target values will be preferred						

	Tuneable Track Attributes
acousticness	A confidence measure from 0.0 to 1.0 of whether the track is acoustic.
danceability	Describes how suitable a track is for dancing based on a combination of musical elements
	including tempo, rhythm stability, beat strength, and overall regularity
duration_ms	Duration of the track in milliseconds
energy	Measure from 0.0 to 1.0 and represents a perceptual measure of intensity and activity
instrumentalness	Predicts whether a track contains no vocal
key	Key the track is in. Integers map to pitches using standard Pitch Class notation
liveness	Detects presence of an audience in the recording
loudness	Overall loudness of a track in decibels (dB)
mode	Mode indicates the modality of a track (major or minor)
popularity	Popularity of track, between 0 and 100, with 100 being the most popular
speechiness	Detects the presence of spoken words in a track
tempo	Estimated tempo of a track in beats per minute (BPM)
time_signature	Estimated overall time signature of a track
valence	Measure from 0.0 to 1.0 describing the musical positiveness conveyed by a track

Header Response				
	Success			
HTTP Status 200 OK	Recommendations Response Object			
	Error			
Error Code	Error Object			







If you chose to close **Visual Studio 2019** previously, in **Windows 10** choose **Start**, and then from the **Start Menu** find and select **Visual Studio 2019** 

Once done, from the **Get started** screen for **Visual Studio 2019** select **Open a project or solution** 

Then locate and select **SpotifyForDevelopers.sln** and select **Open** if you don't have this file already then please follow the previous parts of the workshop including **Getting Started**, **Authorisation Guide** and **Search & Browse** 

#### Step 2



Once opened, in the **Solution Explorer** open the **Pages** section, then open the **Index.cshtml** section and select **Index.cshtml.cs** 







View	Project	Build	Debug	Test	Analyze
🔿 Open					

In the **Code View** for **Index.cshtml.cs** below the **method** for public async Task<IActionResult> OnPostGetRecommendationGenresAsync() { ... } enter the following **method**:

```
public async Task<IActionResult> OnPostGetRecommendationsAsync(string value)
{
    LoadToken();
    var results = await Api.GetRecommendationsAsync(
        seedGenres: new List<string> { value });
    if (results?.Tracks != null)
    {
        Results = results.Tracks.Select(result => new Result()
        {
            Id = result.Id,
            Name = result.Name,
            Inner = new Result()
            {
                Id = result?.Artists?.FirstOrDefault()?.Id,
                Name = result?.Artists?.FirstOrDefault()?.Name
            }
        });
    }
    return Page();
}
```

The **method** for OnPostGetRecommendationsAsync is used to get **recommendations** by **genre** on Spotify with the value and populate the **property** for Results accordingly.

#### Step 5



In the **Solution Explorer** in the **Pages** section select **Index.cshtml** 





View	Project	Build	Debug	Test	Analyze
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Then from the **Menu** choose **View** and then **Open** 

Step 7

Once in the **Code View** for **Index.cshtml** above <!-- Browse --> enter the following:



This form will **post** to the **method** for OnPostGetRecommendationsAsync with the Value as the **Genre** and will output to the **Results**.

#### Step 8

🕨 Local Machine 🔻

Finally, in **Visual Studio 2019** select **IIS Application** to run the **Web Application** 

#### Step 9

Once the **Web Application** is running and you select **Client Credentials Flow Login** and scroll down you should see something like the following:

Spotify for Developers - SpotifyF 🗙	+	-	٥	×
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s	earch			^
	Album			
	Query Search For An Item			
				ł
В	rowse			
	Get All Categories			
	Category Id			
	Get Category			
	Category Id			
-	Get Category Playlists			
	Get Recommendation Genres			
	Genre			
	Get Recommendations			
				-1
© 202	0 - SpotifyForDevelopers - Privacy			





You can then enter a **Genre** from **Get Recommendation Genres** and select **Get Recommendations** and scroll down to view **Results** like the following:

5 Spotify for Develo	opers - Spotify = × +					-
$\leftarrow \  \   \rightarrow \  \   O$	A https://localhost:44395/?handler=0	GetRecommendations			☆	垥
	Results					
	Id	Name	ld	Name		
	5jsDxDkJ1PqyYUWhDMr86B	Song #3	49qiE8dj4JuNdpYGRPdKbF	Stone Sour		
	0upLyFR8Rr52ZpMp5esQoq	You Really Got Me - 2015 Remaster	2cnMpRsOVqtPMfq7YiFE6K	Van Halen		
	7oK9VyNzrYvRFo7nQEYkWN	Mr. Brightside	0C0XIULifJtAgn6ZNCW2eu	The Killers		
	2TVxnKdb3tqe1nhQWwwZCO	Tiny Dancer	3PhoLpVuITZKcymswpck5b	Elton John		
	6ihL9TjfRjadfEePzXXyVF	Gives You Hell	3vAaWhdBR38Q02ohXqaNHT	The All-American Rejects		
	1jzDzZWeSDBg5fhNc3tczV	Paranoid	5M52tdBnJaKSvOpJGz8mfZ	Black Sabbath		
	0vFOzaXqZHahrZp6enQwQb	Money	0k17h0D3J5VfsdmQ1iZtE9	Pink Floyd		
	67vYdAAM3oGsEImCRfbtsF	Times Like These	7jy3rLJdDQY21OgRLCZ9sD	Foo Fighters		
	7MRyJPksH3G2cXHN8UKYzP	American Girl	4tX2TplrkIP4v05BNC903e	Tom Petty and the Heartbreakers		
	47ojH5LeQhI1ZltSAHBEFF	Don't Come Down	4o0pNHbyj36LPvukNqEug0	The Maine		
	5cZqsjVs6MevCnAkasbEOX	Break Stuff	165ZgPILkK7bf5bDoFc6Sb	Limp Bizkit		
	6DmfWj5kOa1fX8AwN9byOn	L.A. Woman	22WZ7M8sxp5THdruNY3gXt	The Doors		
	4s6LhHAV5SEsOV0IC2tjvJ	California Dreamin' - Single Version	1bs7HoMkSyQwcobCpE9KpN	The Mamas & The Papas		
	1wXuogT7bvqnhuWzDBNOdV	Runnin' Wild	6urzdpGY5yUimWZsgJUoTb	Airbourne		
	0INUE1K7cEiE8VH63Rv5RJ	Happy?	2Pfv2w8a20xzC7Dr7QXRqM	Mudvayne		
	48UPSzbZjgc449aqz8bxox	Californication	0L8ExT028jH3ddEcZwqJJ5	Red Hot Chili Peppers		

#### Step 11

Step 12



#### You can stop the **web application** in **Visual Studio 2019** by selecting the **Stop debugging** button

You can choose to exit **Visual Studio 2019** by selecting the **Close** button in the top right of the **application** as that completes this part of the workshop





#### Spotify for Developers

#### **Get All New Releases**

Get a list of new album releases featured in Spotify as shown in the Spotify player's "Browse" tab.

GET https://api.spotify.com/v1/browse/new-releases		
Header		
Authorization	Valid Access Token from Spotify Accounts service	
Query Parameter		
country	ISO 3166-1 alpha-2 country code e.g. "GB". If omitted globally relevant items returned	
limit	Maximum number of results to return	
offset	Index of first result to return	

Header	Response		
	Success		
HTTP Status 200 OK Array of Simplified Album Objects wrapped in a Paging Object			
Error			
Error Code	Error Code Error Object		
Step 1			
If you chose to close Visual Studio 2019 previously in			



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If you chose to close **Visual Studio 2019** previously, in **Windows 10** choose **Start**, and then from the **Start Menu** find and select **Visual Studio 2019** 

Open a <u>p</u>roject or solution

Open a local Visual Studio project or .sln file

📢 Open Project/Solut	tion					×
← → × ↑ 🖡	- Work.	. > SpotifyForDevel	ٽ ~	,	SpotifyForDevelop	ers
Organise • New	/ folder				•	2
	^	Name			Date modified	
3D Objects		.vs		2	2/01/2020 19:52	
Desktop		SpotifyForDevelopers		C	1/02/2020 17:18	
Documents		SpotifyForDevelopers.sln		2	2/01/2020 19:52	
Downloads						
👌 Music						
Notures 🔤 Pictures						
📑 Videos						
🐛 Windows (C:)						
🥩 Network						
	~ <					>
F	ile <u>n</u> ame	SpotifyForDevelopers.sln	~	All Project Fi	les (*.sln;*.dsw;*.vcv	~
		Do not load p	rojects	Qpen	Cancel	

Studio 2019 select Open a project or solution

Once done, from the Get started screen for Visual

Then locate and select **SpotifyForDevelopers.sln** and select **Open** if you don't have this file already then please follow the previous parts of the workshop including **Getting Started**, **Authorisation Guide** and **Search & Browse** 







Once opened, in the **Solution Explorer** open the **Pages** section, then open the **Index.cshtml** section and select **Index.cshtml.cs** 

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View	Project	Build	Debug	Test	Analyze
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Then from the Menu choose View and then Open

#### Step 4

In the **Code View** for **Index.cshtml.cs** below the **method** for public async Task<IActionResult> OnPostGetRecommendationsAsync() { ... } enter the following **method**:

```
public async Task<IActionResult> OnPostGetAllNewReleasesAsync()
{
    LoadToken();
    var results = await Api.GetAllNewReleasesAsync(country);
    if (results?.Items != null)
    {
        Results = results.Items.Select(result => new Result()
        {
            Id = result.Id,
            Name = result.Name,
            Image = result.Images?.FirstOrDefault()?.Url,
            Inner = new Result()
            {
                Id = result?.Artists?.FirstOrDefault()?.Id,
                Name = result?.Artists?.FirstOrDefault()?.Name
            ł
        });
    }
    return Page();
}
```

The **method** for OnPostGetAllNewReleasesAsync is used to get **all new releases** by country on Spotify and populate the **property** for Results accordingly.







In the **Solution Explorer** in the **Pages** section select **Index.cshtml** 

#### Step 6

View	Project	Build	Debug	Test	Analyze
<b>?</b> 0	pen				

Then from the **Menu** choose **View** and then **Open** 

#### Step 7

Once in the **Code View** for **Index.cshtml** above <!-- Browse --> enter the following:

```
        <form asp-page-handler="GetAllNewReleases" method="post">
        <button class="btn btn-primary mb-2">
        Get All New Releases
        </button>
        </form>
```

This form will post to the method for OnPostGetAllNewReleasesAsync and will output to the Results.

Step 8

Local Machine •





Once the **Web Application** is running and you select **Client Credentials Flow Login** and scroll down you should see something like the following:

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$\leftrightarrow$ $\rightarrow$ O A ht	ps://localhost:44395/?handler=clientcredentials	公	7Å≡	C	
	Album				1
	Query				
	Search For An Item				
	Browse				
	Get All Categories				ł
	Category Id				
	Get Category				
	Category Id				
	Get Category Playlists				
	Get Recommendation Genres				
	Genre				
	Get Recommendations				
	Get All New Releases				
C	2020 - SpotifyForDevelopers - <b>Privacy</b>				

#### Step 10

You can then select Get All New Releases and scroll down to view Results like the following:

Image       Md       Name       Id       Name         Image       GetWSELs9V1KV6RSMN7Jii       Changes       JuxFoZAHBG0IImzznpCI3s       Justin Bieber         Image       Image       No Time To Die       GeqNVTKV8UBg9cP3Jd7DAH       Bille Elish         Image       3IqVWUdRinB8thMvts0yYL       The Slow Rush       SiNigkS108h1imAzPqGZBb       Tame Impala         Image       3IqVWUdRinB8thMvts0yYL       Love Regenerator 2       OsKDKipszhwB9BMewaGBW       Love Regenerator         Image       StLNA0H5XiMLPAWSb8SUU       Birthday       Love Regenerator       New Hope Club         Image       StLNA0H5XiMLPAWSb8SUU       Birthday       Love Regenerator       New Hope Club         Image       StLNA0H5XiMLPAWSb8SUU       Birthday       Love Regenerator       New Hope Club         Image       StLNA0H5XiMLPAWSb8SUU       Birthday       Love Regenerator       Norther Marie	Spotify for Developers	- SpotifyF × +						-	đ	×
Kesuits         Image       Id       Name         Image       Id       Name         Image       SiNSELSV1KVERSMANT/II       Changes       LuNFoZAHBGtlimzznpCl3s       Jusin Bieber         Image       Image       Image       Image       Image       Image       Image         Image       Image       Image       Image       Image       Image       Image       Image         Image       Image       Image       Image       Image       Image       Image       Image         Image       Image       Image <thimage< th="">       Image       <thimage< th=""></thimage<></thimage<>	$\epsilon \rightarrow 0$	https://local	lhost:44395/?handler=GetAllNewRe	leases			戽	炸	C	
Image       Id       Name       Id       Name         Image       63WSELSY1KV6RSMAM711       Changes       LuNFoZAHBGtlimzznpCI3s       Justin Bieber         Image       andraeq8jZvHiFeAVpbWSHf       To Die For       2wV79sveL11sp5g7SokKOI       Sam Smith         Image       sxStscDjBez8VF20cSyad       No Time To Die       6qnNVTLY8u8g9cP3Jd7DAH       Bille Eilish         Image       alqVVUdRibBthMvts0yVL       The Slow Rush       SlNjqkS10Bth1imAzPqGZBb       Tame Impale         Image       alqVVUdRibBthMvts0yVL       Love Regenerator 2       OSKDKlpxsthrd9BMewaCBW       Love Regenerator 2         Image       alqVUdRibBthMvts0yVL       Intel Slow Rush       SkuRu0Sr/ZOQyY3MmE4+tez       New Hope Club         Image       alqVUdRibBthMvts0yVL       Love Regenerator 2       OSKDKlpxsthrd9BMewaCBW       New Hope Club         Image       alqVUdRibBthMvts0yVL       Intel Slow Rush       No One Else Can Wear Your Crown (Deluxe)       Sct23SFuBUvdz5BW2tU9       No Wonder         Image       gPERPMWWY1pchIPKeNUJMA       No One Else Can Wear Your Crown (Deluxe)       Sct23SFuBUvdz5BW2tU9       No Wonder         Image       autritryticHtWvHW1HS1       Birds of Prey The Album       OydQWJT6Astal PZqpeOf       Various Artists		Result	ts							
631WSELBYTKV6R6SMKN7II       Changes       LuNFoZAHBGRIImzznpCI3s       Justin Bieber         Image:       2motAeq8jZrHkF4VpbWShf       To Die For       2mV79sveU1sp5g7SokKOil       Sam Smith         Image:       5xSSHscDjBez8VF20cSyad       No Time To Die       GqqNVTkY8uBg9cP3ad7DAH       Billie Eilish         Image:       1qVVUdRrIb8thMvts0yfL       The Slow Rush       SiNigkSt08h1imAzPqGZBb       Tame Impala         Image:       1aR7RfDfGytjtiggnMbTKml       Love Regenerator 2       OSKOK/psshw89BMewaCBW       Love Regenerator         Image:       1F0u255qTT1V4pFwijR8MXn       New Hope Club       StOK/DSydW05YZOQyf3MmE4vtzz       New Hope Club         Image:       1F0u255qTT1V4pFwijR8MXn       New Hope Club       Scl2SBFuBLVydzSBW2tUp       Oh Wonder         Image:       2VERPMWWY1pchfPKeNUJz8       No One Else Can Wear Your Crown (Delue)       Scl2SBFuBLVydzSBW2tUp       Oh Wonder         Image:       aurTH777YisvdtVv1W4W151       Birds of Prey: The Album       OlyfQWJT6nXafLPZque9Of       Various Artists		Image	ld	Name	ld	Name				
Image: Sinter		-3.	63iWSELt9V1kV6RSMxN7li	Changes	1uNFoZAHBGtllmzznpCl3s	Justin Bieber				
StStHacDjBez8VF2OcSyad       No Time To Die       6qqNVTkYBuBg9cP3Jd7DAH       Billie Eilish         Image: StStHacDjBez8VF2OcSyad       The Slow Rush       5lNjqk51o8h1lmAzPqGZBb       Tame Impala         Image: StRTPfDfgVhj6qsnMbTKml       Love Regenerator 2       05KDK1pxshxtB9BMewaGBW       Love Regenerator         Image: StRTPfDfgVhj6qsnMbTKml       New Hope Club       2WuKU0SYZOQyY3MmE4vtez       New Hope Club         Image: StRTPfDfgVhj6qsnMbTKml       New Hope Club       1zNqDE7qDGCsyz/wohVaoX       Ame-Marie         Image: StRTPfDfgVhj1pchfPKeNUJAB       No One Else Can Wear Your Crown (Deluxe)       Sclc3SBFuBLVxJz58Wz1U9       Oh Wonder         Image: Strep 11       Strep 11       Birds of Prey: The Album       0ydQWJT6nXafLPZqxe9Of       Various Artists			2motAeq8jZvHkF4VpbWSHf	To Die For	2wY79sveU1sp5g7SokKOil	Sam Smith				
Stor 11       31qVWUdRirb8thMvts0yVL       The Slow Rush       5lNjqkS108h1ImA2PqGZBb       Tame Impala         Image: Stor 11       3aR7RfDfgyhj6gsnMbTKml       Love Regenerator 2       0SKDKlpxshxrB9BMewaGBW       Love Regenerator         Image: Stor 11       1Pou259qTT1V4pFwjRBMXn       New Hope Club       2WuKU0SYZOQY3MmE4vtez       New Hope Club         Image: Stor 11       2KLNA0H5XiiMLPAWSb8SU       Birthday       12NqDE7qDGCsyzJwohVaoX       Anne-Marie         Image: Stor 11       2PERPMWWY1pchfPKeNUJX8       No One Else Can Wear Your Crown (Deluxe)       Sclc3SBFuBLVxJz58W2tU9       Oh Wonder         Image: Stor 11       Birds of Prey: The Album       0LyfQWJT6nXafLPZqxe9Of       Various Artists			5sXSHscDjBez8VF20cSyad	No Time To Die	6qqNVTkY8uBg9cP3Jd7DAH	Billie Eilish				
3a7RfDfGyhj6qsnMbTKml       Love Regenerator 2       05KDKlpxshxfB9BMewaCBW       Love Regenerator         Image: Start			31qVWUdRrib8thMvts0yYL	The Slow Rush	5INjqkS1o8h1imAzPqGZBb	Tame Impala				
IFOu259qTT1V4pFwjR8MXn       New Hope Club       2WuKU0SYZQQY3MmE4vtez       New Hope Club         Image: All All All All All All All All All Al		Ŕ	3a R7RfDfGyhj6qsnMbTKml	Love Regenerator 2	05KDKlpxshxrB9BMewaCBW	Love Regenerator				
2KLNA0H5XiiMLPAWSb8sUu       Birthday       1ZNqDE7qDGCsyzJwohVaoX       Anne-Marie         Image: Comparison of the stress of t			1FOu259qTT1V4pFwjR8MXn	New Hope Club	2WuKU0SYZOQyY3MmE4vtez	New Hope Club				
2PERPMWWY1pchfPKeNUJx8       No One Else Can Wear Your Crown (Deluxe)       Sclc3SBFuBLVxJz58W2tU9       Oh Wonder         3wITH77YIxYdtVv1W4W15I       Birds of Prey: The Album       OLyfQWJT6nXafLPZqxe9Of       Various Artists		A.	2KLNA0H5XiiMLPAWSb8sUu	Birthday	1zNqDE7qDGCsyzJwohVaoX	Anne-Marie				
3wITH77YIxYdtVv1W4W15I Birds of Prey. The Album OlyfQWJT6nXafLPZqxe9Of Various Artists		ow 1	2PERPMWWY1pchfPKeNUJx8	No One Else Can Wear Your Crown (Deluxe)	5clc3SBFuBLVxJz58W2tU9	Oh Wonder				
Step 11		BRES IF HAT	3wITH77YIxYdtVv1W4W1SI	Birds of Prey: The Album	0LyfQWJT6nXafLPZqxe9Of	Various Artists				
Step 11	Step 11									
You can stop the <b>web applica</b> <b>2019</b> by selecting the <b>Stop d</b>					You can s <b>2019</b> by s	stop the <b>we</b> selecting th	eb a ne S	pp toj	p d	ati eb
Step 12	Step 12				Vou					

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You can choose to exit **Visual Studio 2019** by selecting the **Close** button in the top right of the **application** as that completes this part of the workshop





#### **Get All Featured Playlists**

Get a list of Spotify featured playlists as shown in the Spotify player's "Browse" tab.

GET https://api.spotify.com/v1/browse/featured-playlists		
	Header	
Authorization	Valid Access Token from Spotify Accounts service	
Query Parameter		
country	ISO 3166-1 alpha-2 country code e.g. "GB". If omitted globally relevant items returned	
locale	Desired language, consisting of ISO 639-1 language code and ISO 3166-1 alpha-2 country code, joined by an underscore e.g. "en_GB". If omitted results returned in American English	
timestamp	Timestamp in ISO 8601 format: yyyy-MM-ddTHH:mm:ss. Use this parameter to specify the user's local time to get results tailored for that specific date and time in the day	
limit	Maximum number of results to return	
offset	Index of first result to return	

Header	Response
	Success
HTTP Status 200 OK	Playlists Object contains an Array of Simplified Playlist Objects
	Error
Error Code	Error Object
Sten 1	

Step I

Ċ	Visual Studio 2019
	$ \mathcal{P} $ Type here to search

Open a project or solution

Open a local Visual Studio project or .sln file

If you chose to close Visual Studio 2019 previously, in Windows 10 choose Start, and then from the Start Menu find and select Visual Studio 2019

Once done, from the Get started screen for Visual Studio 2019 select Open a project or solution

🔀 Open Project/Solution		×
← → × ↑ 🖡 « Wo	rk > SpotifyForDevel ~ ご	. ○ Search SpotifyForDevelopers
Organise * New folde	r	E • 🔳 🤇
, This PC	Name	Date modified
3D Objects	.vs	22/01/2020 19:52
Desktop	SpotifyForDevelopers	01/02/2020 17:18
Documents	SpotifyForDevelopers.sln	22/01/2020 19:52
Downloads		
Music		
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📑 Videos		
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Network	٢	
File <u>n</u> ar	me: SpotifyForDevelopers.sln	All Project Files (*.sln;*.dsw;*.vcv ~
	L Do not load projects	Upen Cancel

Then locate and select SpotifyForDevelopers.sln and select **Open** if you don't have this file already then please follow the previous parts of the workshop including Getting Started, Authorisation Guide and Search & Browse







Once opened, in the **Solution Explorer** open the **Pages** section, then open the **Index.cshtml** section and select **Index.cshtml.cs** 

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View	Project	Build	Debug	Test	Analyze
<b>?</b> 0	pen				

Then from the Menu choose View and then Open

#### Step 4

In the **Code View** for **Index.cshtml.cs** below the **method** for public async Task<IActionResult> OnPostGetAllNewReleasesAsync() { ... } enter the following **method**:

```
public async Task<IActionResult> OnPostGetAllFeaturedPlaylistsAsync()
{
    LoadToken();
    var results = await Api.GetAllFeaturedPlaylistsAsync(country);
    if (results?.Items != null)
    {
        Results = results.Items.Select(result => new Result()
        {
            Id = result.Id,
            Name = result?.Images?.FirstOrDefault()?.Url
        });
    }
    return Page();
}
```

The **method** for OnPostGetAllFeaturedPlaylistsAsync is used to get **all featured playlists** by country on Spotify and populate the **property** for Results accordingly.





In the **Solution Explorer** in the **Pages** section select **Index.cshtml** 

#### Step 6

View	Project	Build	Debug	Test	Analyze
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Then from the **Menu** choose **View** and then **Open** 

#### Step 7

Once in the **Code View** for **Index.cshtml** above <!-- Browse --> enter the following:

```
<form asp-page-handler="GetAllFeaturedPlaylists" method="post">
<button class="btn btn-primary mb-2">
Get All Featured Playlists
</button>
</form>
```

This form will **post** to the **method** for OnPostGetAllFeaturedPlaylistsAsync and will output to the **Results**.

Step 8

▶ Local Machine ▼





Once the **Web Application** is running and you select **Client Credentials Flow Login** and scroll down you should see something like the following:

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$\leftrightarrow$ $\rightarrow$ $\circlearrowright$ https://localhost/44395/?handler=clientcredentials	垥	婨	C	
Search For An Item				^
Browse				
Get All Categories				
Category Id				
Get Category				1
Category Id				
Get Category Playlists				
Get Recommendation Genres				
Genre				
Get Recommendations				
Get All New Releases				
Get All Featured Playlists				
				_
© 2020 - SpotifyForDevelopers - Privacy				

#### Step 10

You can then select Get All Featured Playlists and scroll down to view Results like the following:

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$\leftrightarrow$ $\rightarrow$ 0	https://localhost	:44395/?handler=GetAllFeaturedPlaylists		☆ 佐 💽 …
	Results			
	Image	ld	Name	
	4	37i9dQZF1DX7QC1DnNqj3m	Sweet Soul Sunday	
		37i9dQZF1DX2czWA9hqErK	Easy	
		37i9dQZF1DXbSbnqxMTGx9	Reggae Classics	
	-	37i9dQZF1DX942d1NzGgzk	R&B UK	
	The Rock List	37i9dQZF1DX4DZAVUAwHMT	The Rock List	
	805 Miles	37i9dQZF1DXb57FjYWz00c	80s Hits	
		37i9dQZF1DX71VcjjnyaBQ	Good Morning Jazz	
	Cetal	37i9dQZF1DWUvHZA1zLcjW	Chilled Classical	
	Bar Contre Bret	37i9dQZF1DWYqdkUCLfYzP	Your Coffee Break	
step 11				
				You can stop the <b>web application</b> in <b>Visual Studi</b> <b>2019</b> by selecting the <b>Stop debugging</b> button
Step 12				
		×		You can exit <b>Visual Studio 2019</b> by selecting the obstruction in the top right of the <b>application</b> as that completes this part of the workshop



