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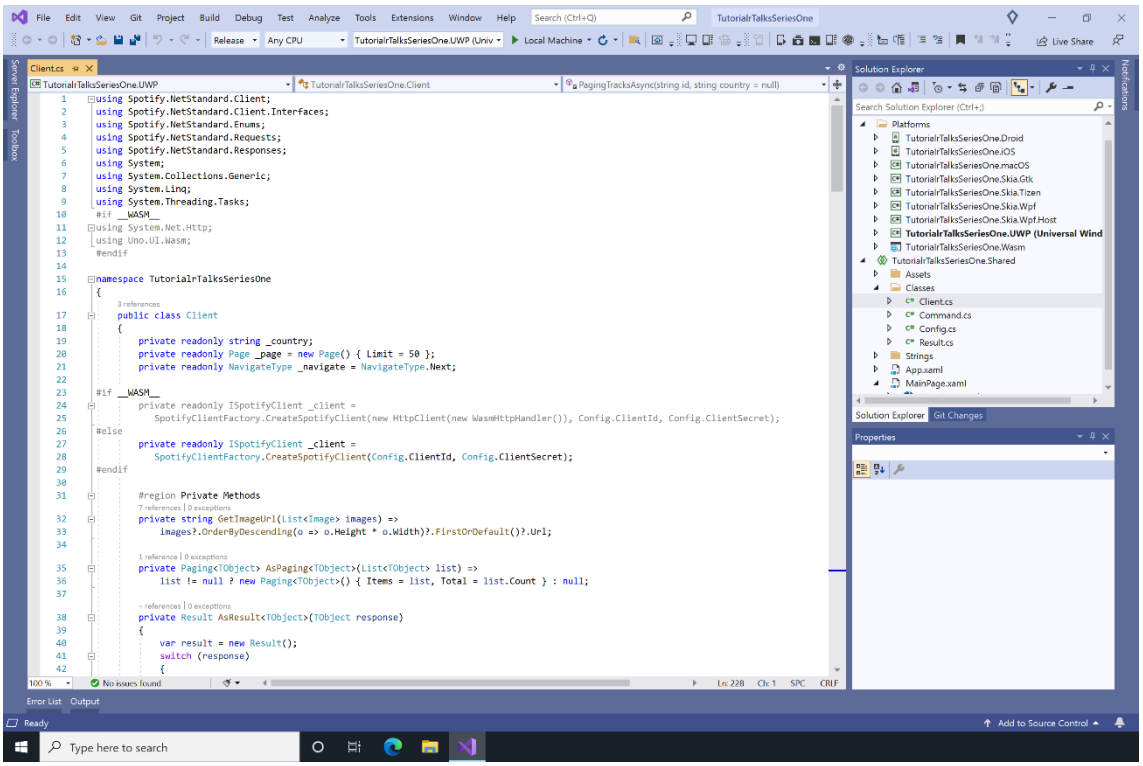
Demo

Series One

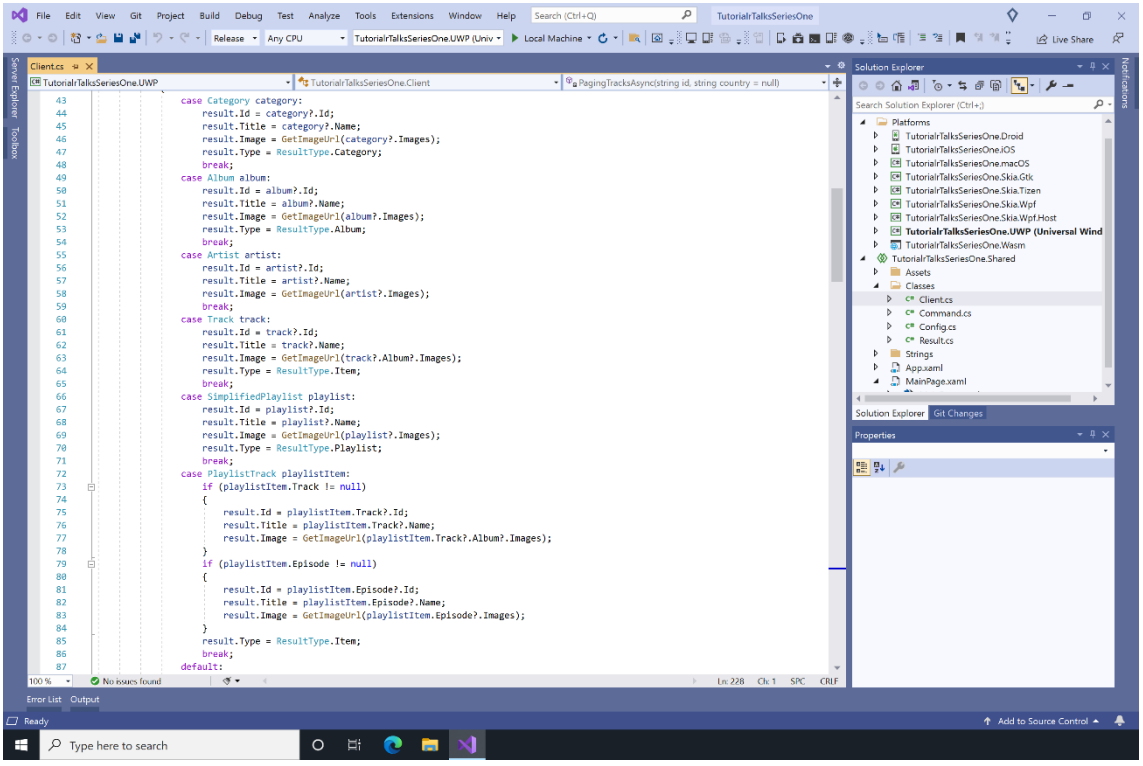
Visual Studio 2019

The Demo uses Visual Studio 2019 with the Uno Platform Solution Templates, Spotify for Developers with Spotify.NetStandard and System Icons from the Fluent Design System.

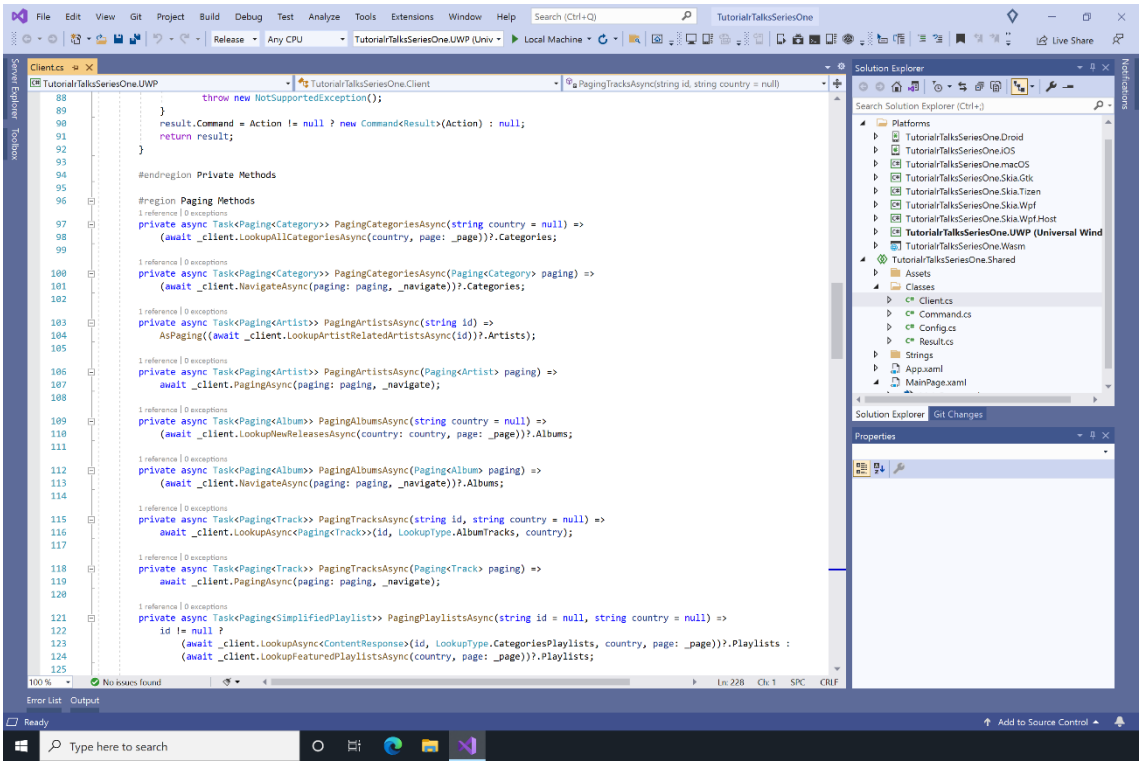
Client



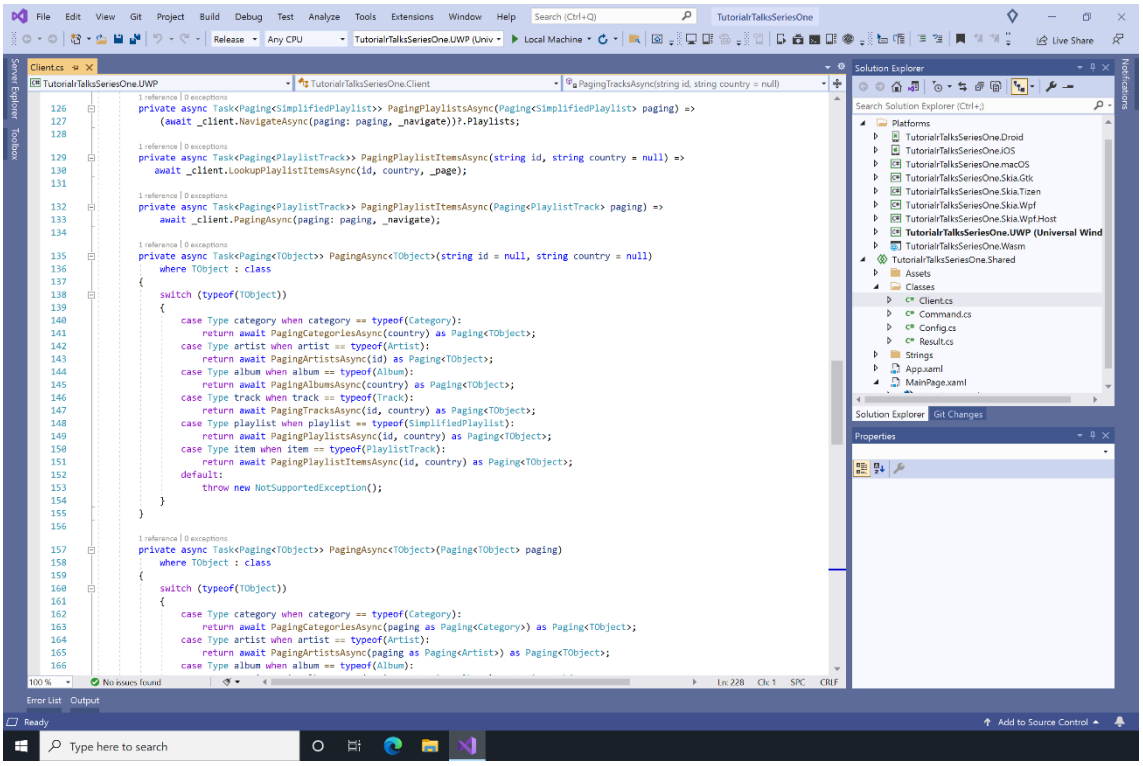
The Client Class uses the third-party Spotify for Developers NuGet Package Spotify.NetStandard and supports HttpClient for WebAssembly along with Image and Paging Methods.



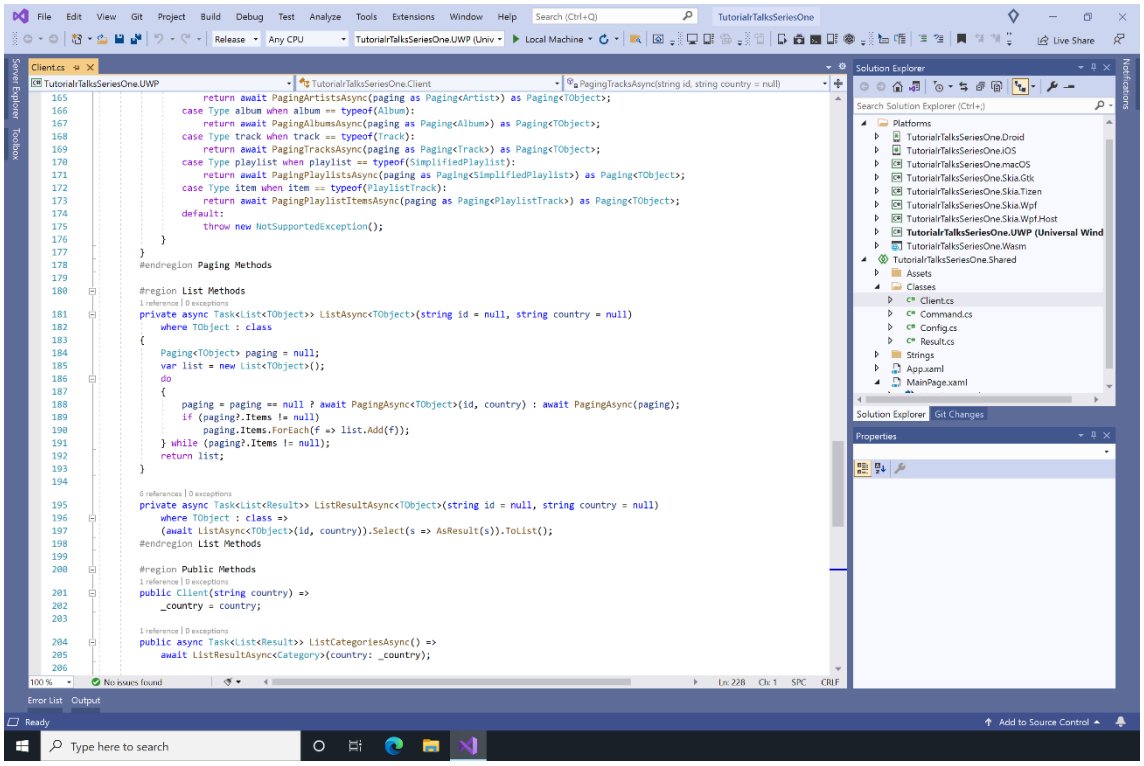
Then, the Client Class also has a Method for converting the responses from the Spotify Client to the Result Class.



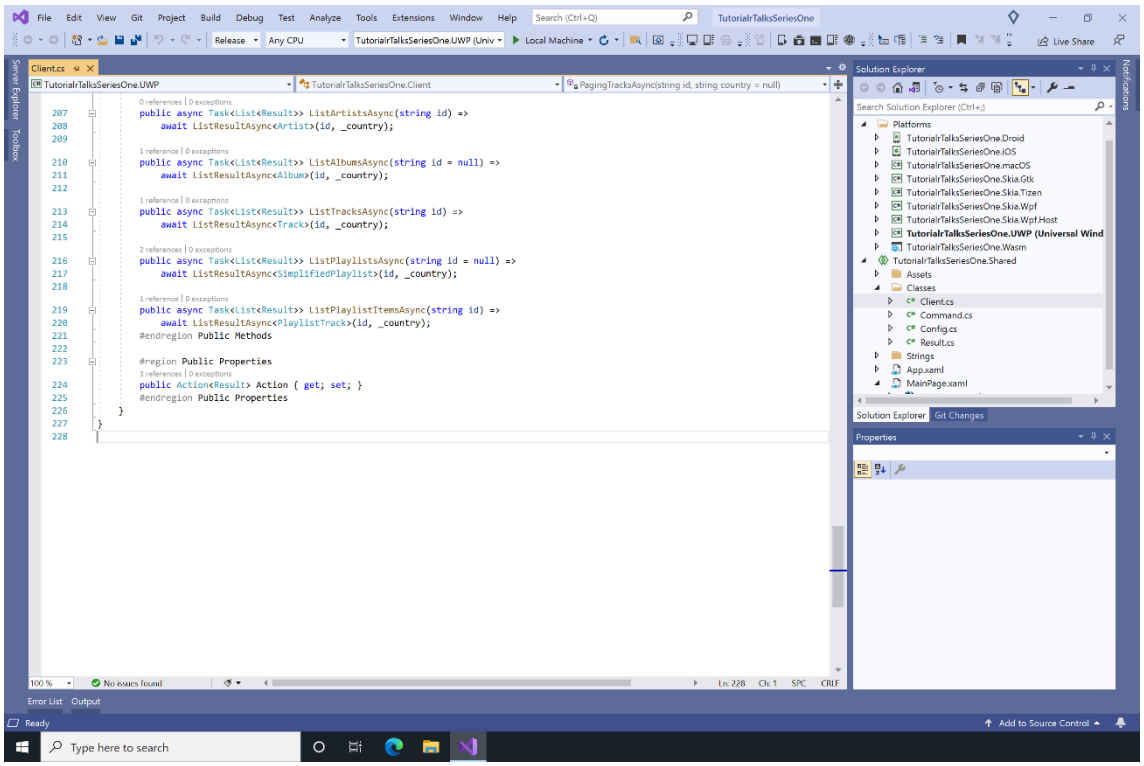
Next, the Client Class has Methods for getting Categories, Artists, Albums, Tracks and Playlist Items from the Spotify Client Paging Methods.



Also, the Client Class has Generic Methods that wrap all the Paging Methods for Categories, Artists, Albums, Tracks and Playlist Items.

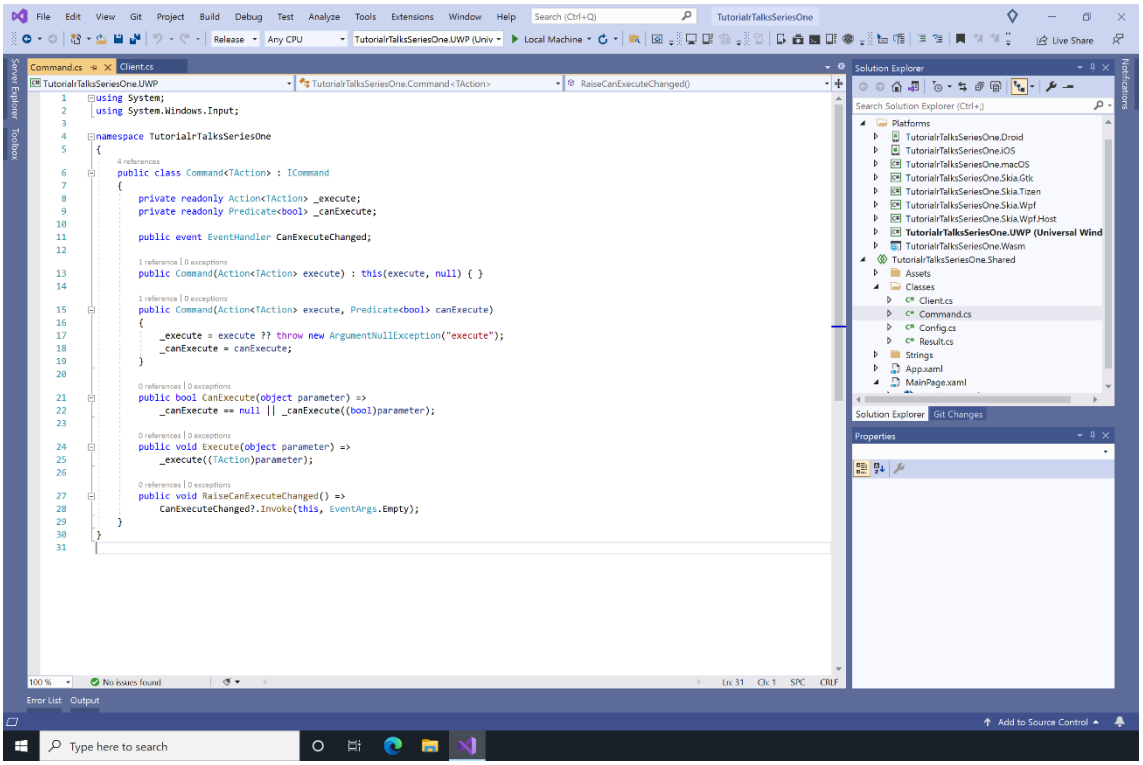


Plus, the Client Class has a Generic Method to List everything from the Paging Method. It also has another Generic Method to List everything as a List of Result Class and use this with the List Categories Method.



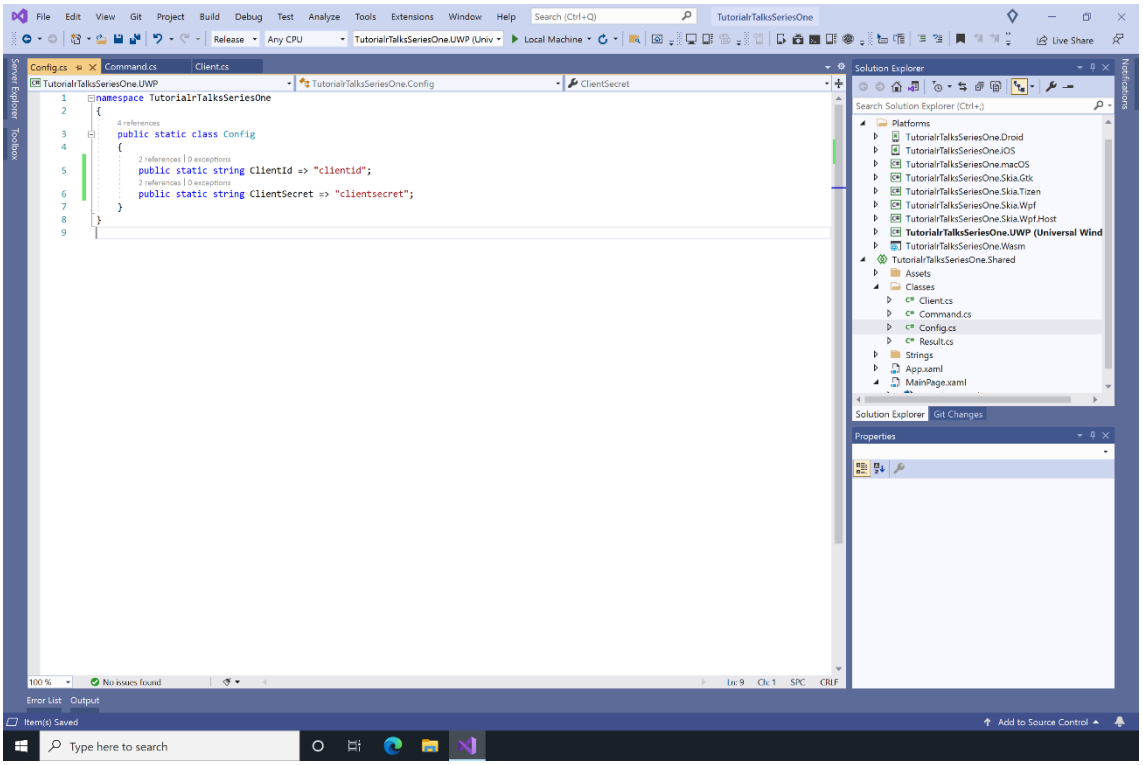
Finally, the Client Class has Methods to List Artists, Albums, Tracks, Playlists and Playlist Items as a List of Result Class along with an Action.

Command



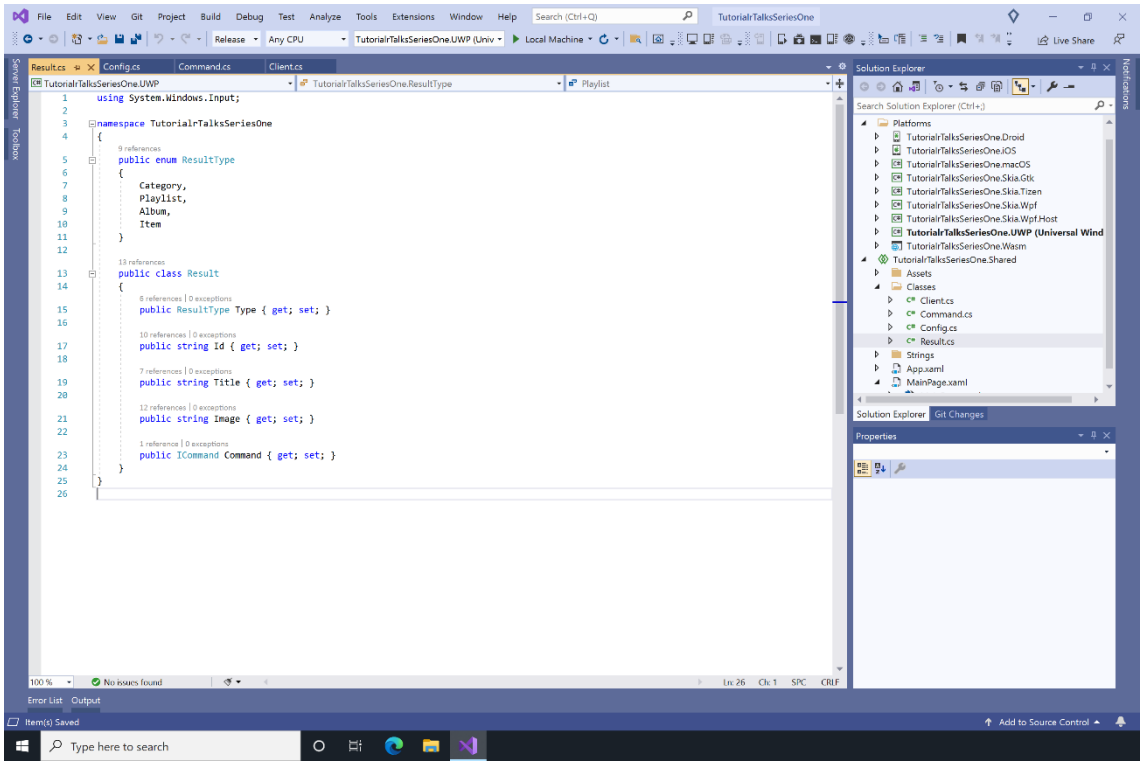
The Command Class implements the Methods from the ICommand Interface to allow for Commanding to be used with the Action from the Client Class.

Config



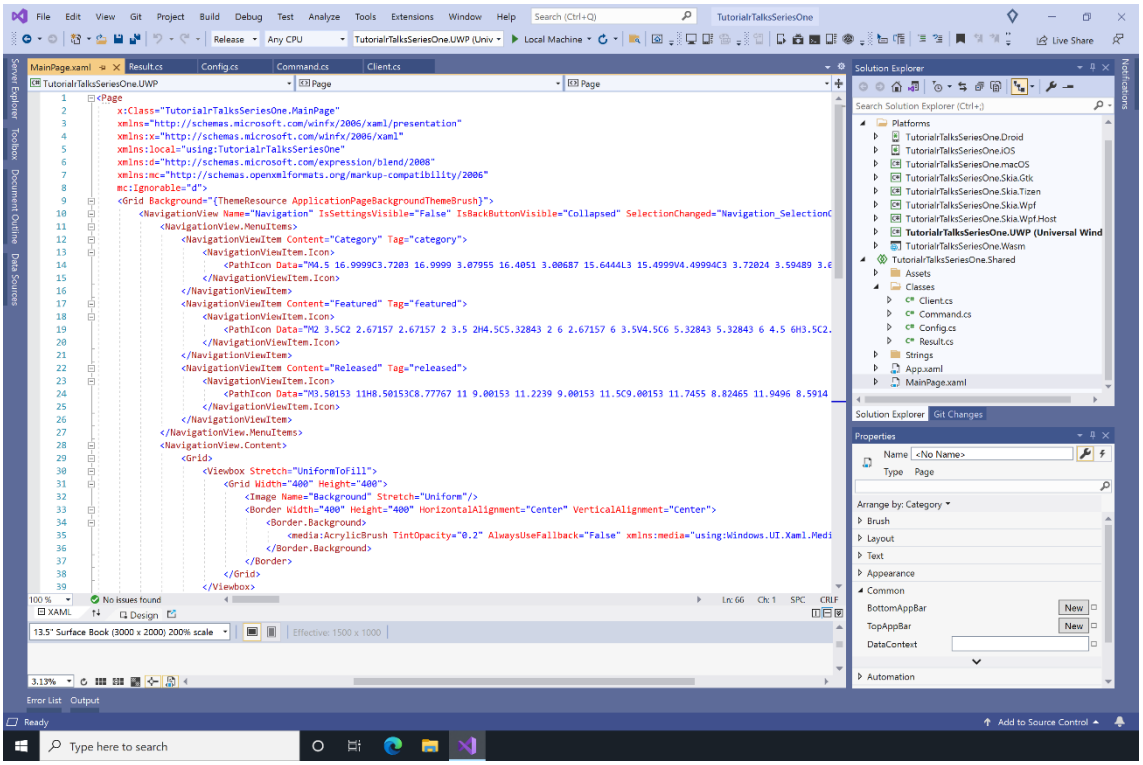
The Config Class has the Client Id and Client Secret which can be obtained from the Spotify for Developers Dashboard and will allow the Client Class to use the Spotify Web API.

Result

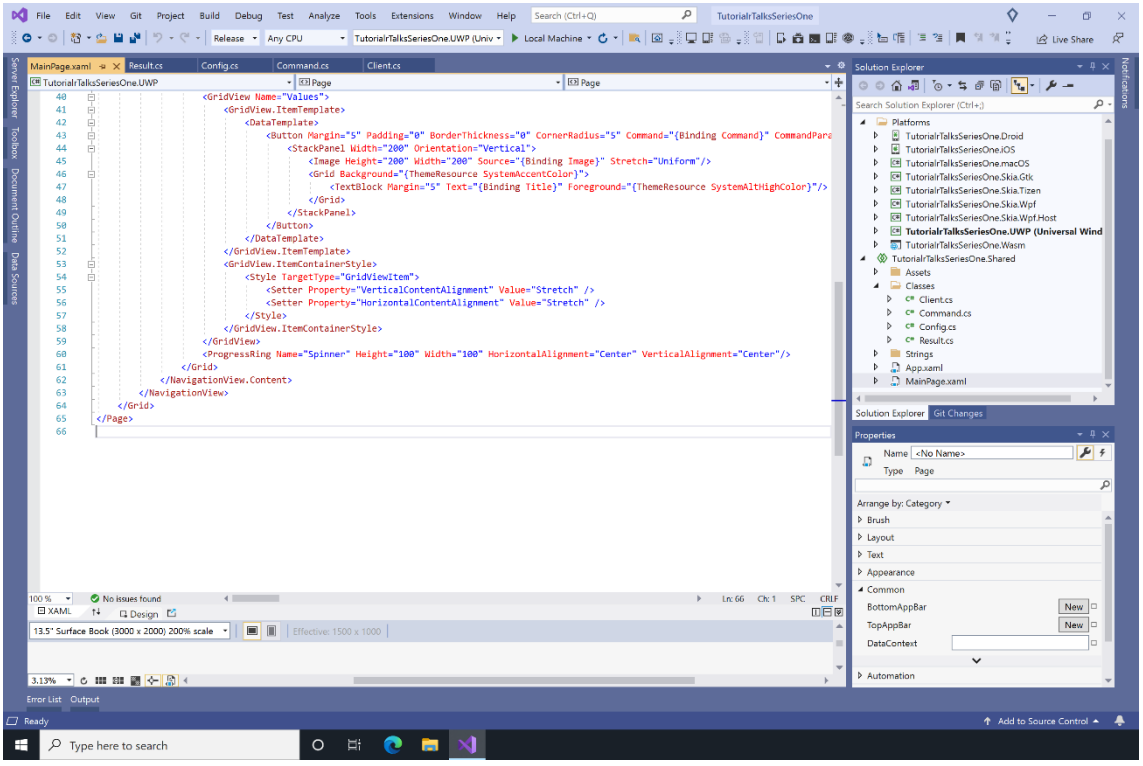


The Result Class represents a Category, Playlist, Playlist Item, Album or Track and includes ResultType for Category, Playlist, Album, and Item which is used for Playlist Items or Tracks. It also has Properties for the Id, Title, Image and Command for Commanding.

Main Page XAML

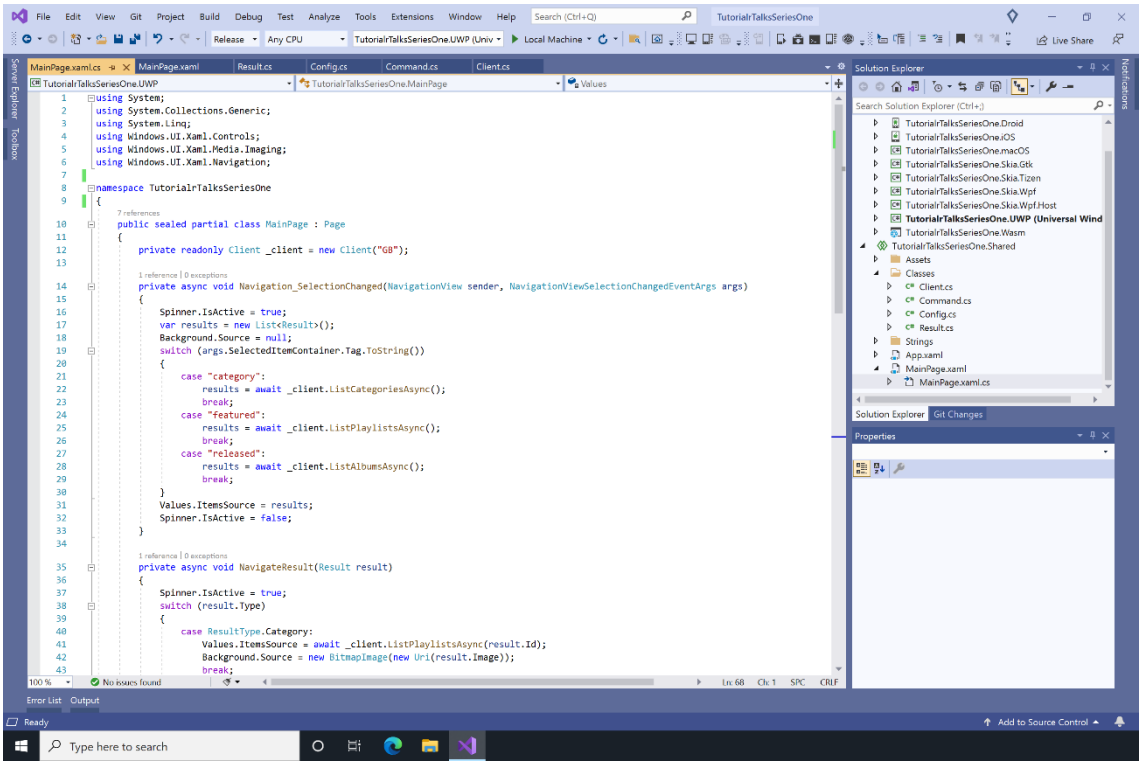


MainPage includes XAML for a Navigation View with Category, Featured and Released options including use of Fluent Design System Icons. Content includes an Image with a Border using Acrylic Effect from the Fluent Design System for the Background.



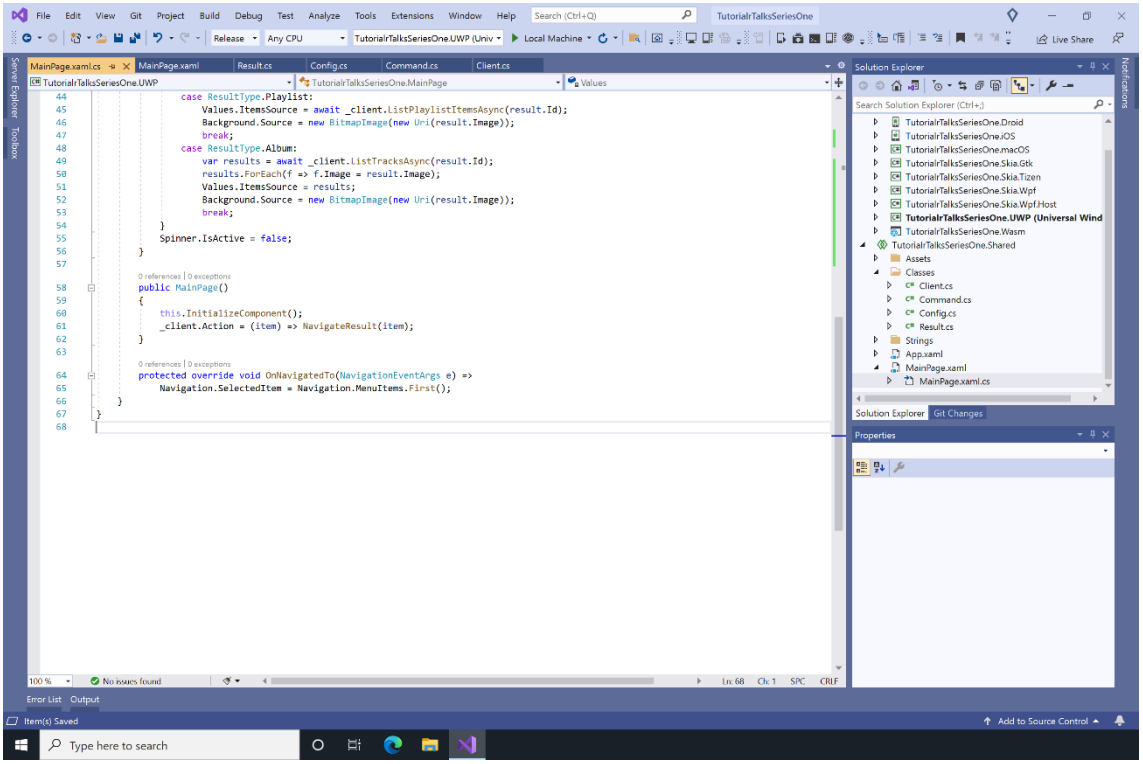
MainPage also includes XAML for a GridView with an Item Template with a Button which has an Image and a TextBlock using a Fluent Design System Colour along with a Progress Ring to indicate Loading.

Main Page Code



```
using System;
using System.Collections.Generic;
using System.Linq;
using Windows.UI.Xaml.Controls;
using Windows.UI.Xaml.Media.Imaging;
using Windows.UI.Xaml.Navigation;

namespace TutorialrTalksSeriesOne
{
    public sealed partial class MainPage : Page
    {
        private readonly Client _client = new Client("GB");

        private async void Navigation_SelectionChanged(NavigationView sender, NavigationViewSelectionChangedEventArgs args)
        {
            Spinner.IsActive = true;
            var results = new List<Result>();
            Background.Source = null;
            switch (args.SelectedItemContainer.Tag.ToString())
            {
                case "category":
                    results = await _client.ListCategoriesAsync();
                    break;
                case "featured":
                    results = await _client.ListPlaylistsAsync();
                    break;
                case "released":
                    results = await _client.ListAlbumsAsync();
                    break;
            }
            Values.ItemsSource = results;
            Spinner.IsActive = false;
        }

        private async void NavigateResult(Result result)
        {
            Spinner.IsActive = true;
            switch (result.Type)
            {
                case ResultType.Category:
                    Values.ItemsSource = await _client.ListPlaylistsAsync(result.Id);
                    Background.Source = new BitmapImage(new Uri(result.Image));
                    break;
```

The Main Page Class uses the Client Class, where the Country is set for Great Britain, there is an Event Handler for Selection Changed of the Navigation View to List Categories for Category, List Playlists for Featured or List Albums for Released plus a Method for Navigation Result.



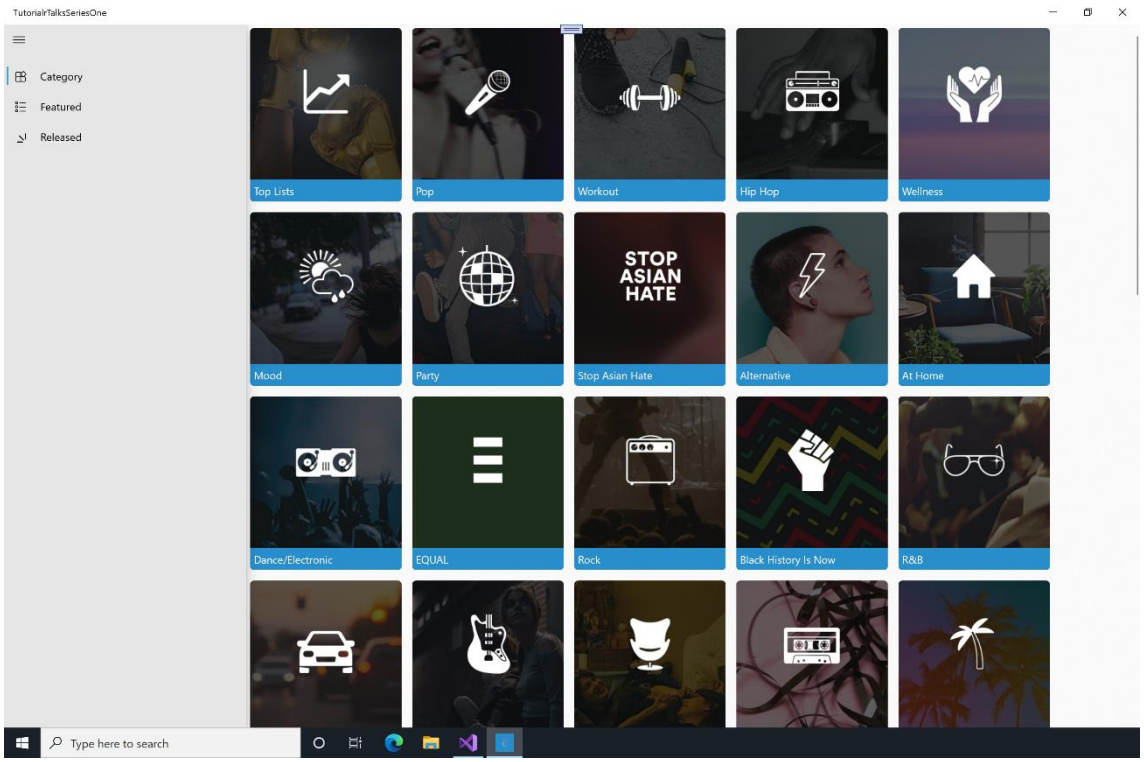
```
                case ResultType.Playlist:
                    Values.ItemsSource = await _client.ListPlaylistItemsAsync(result.Id);
                    Background.Source = new BitmapImage(new Uri(result.Image));
                    break;
                case ResultType.Album:
                    var results = await _client.ListTracksAsync(result.Id);
                    results.ForEach(f => f.Image = result.Image);
                    Values.ItemsSource = results;
                    Background.Source = new BitmapImage(new Uri(result.Image));
                    break;
            }
            Spinner.IsActive = false;
        }

        public MainPage()
        {
            this.InitializeComponent();
            _client.Action = (item) => NavigateResult(item);
        }

        protected override void OnNavigatedTo(NavigationEventArgs e) =>
            Navigation.SelectedItem = Navigation.MenuItems.First();
    }
}
```

The Main Page Class also sets the Action to the Navigation Result Method to List Playlists, Playlist Items or Tracks and set the Navigation View to the First option for Category.

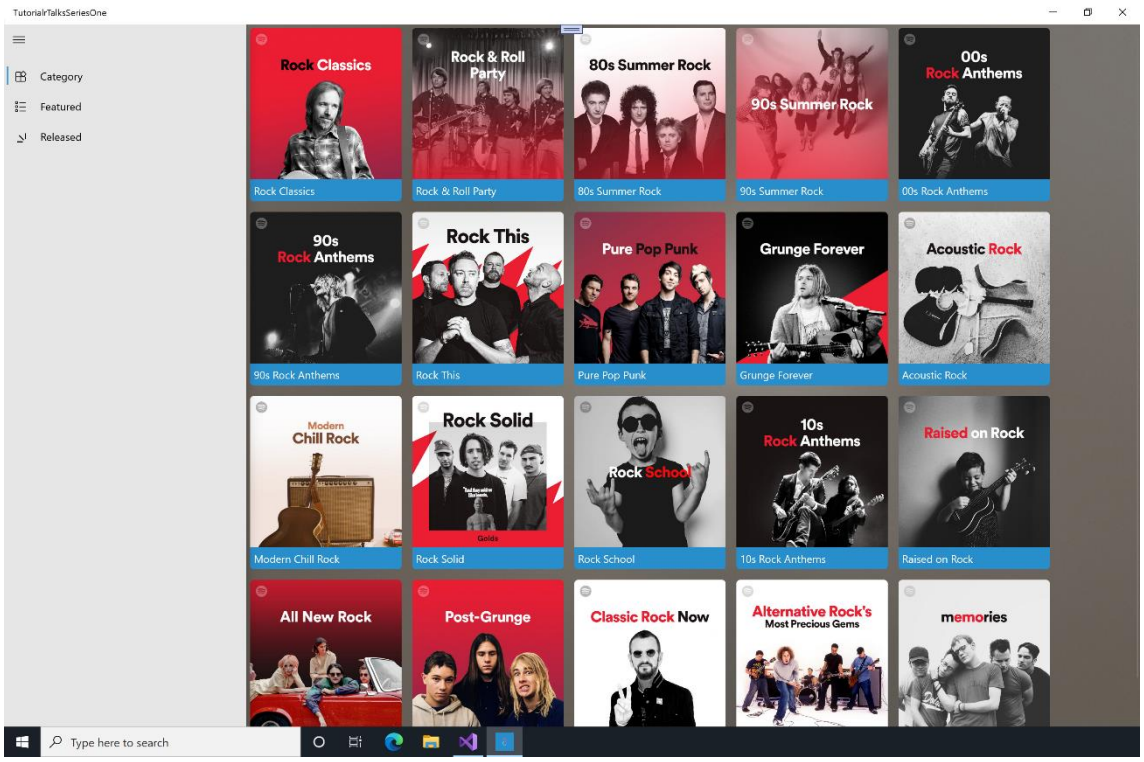
Universal Windows Platform

Universal Windows Platform Demo shows the Navigation View with Category, Featured and Released options along with the Categories from Spotify.

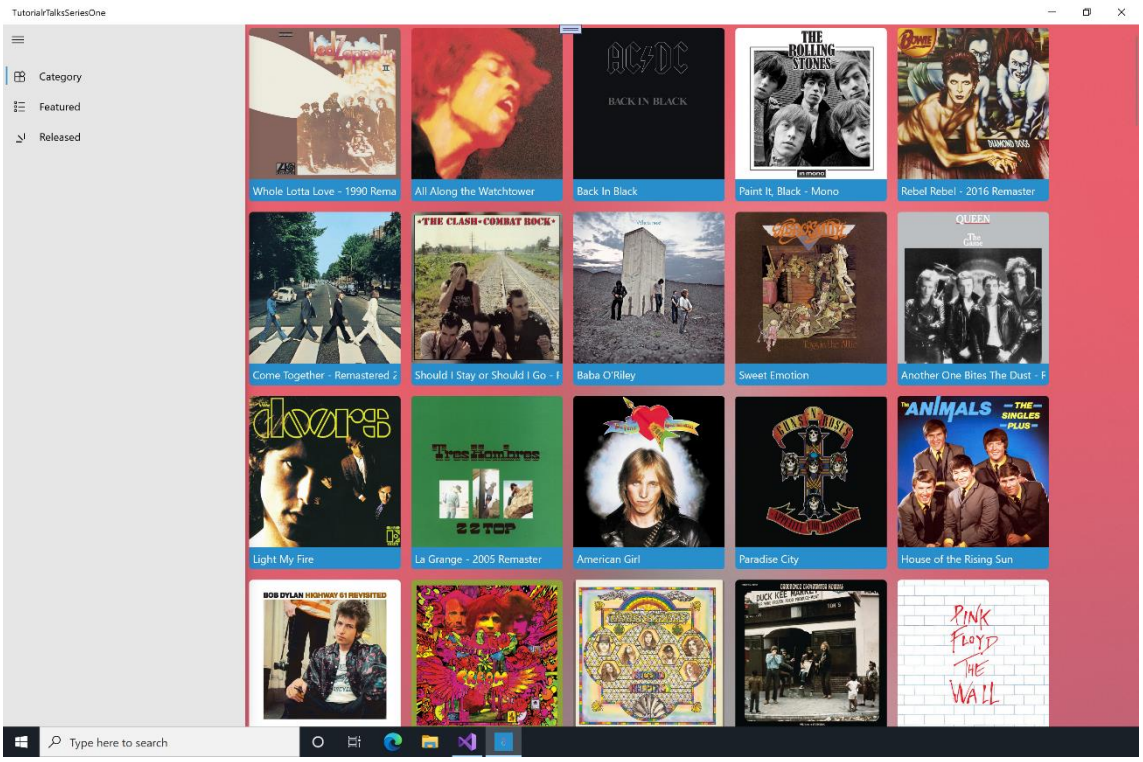
Category



Category shows the Categories from Spotify such as the Rock Category.

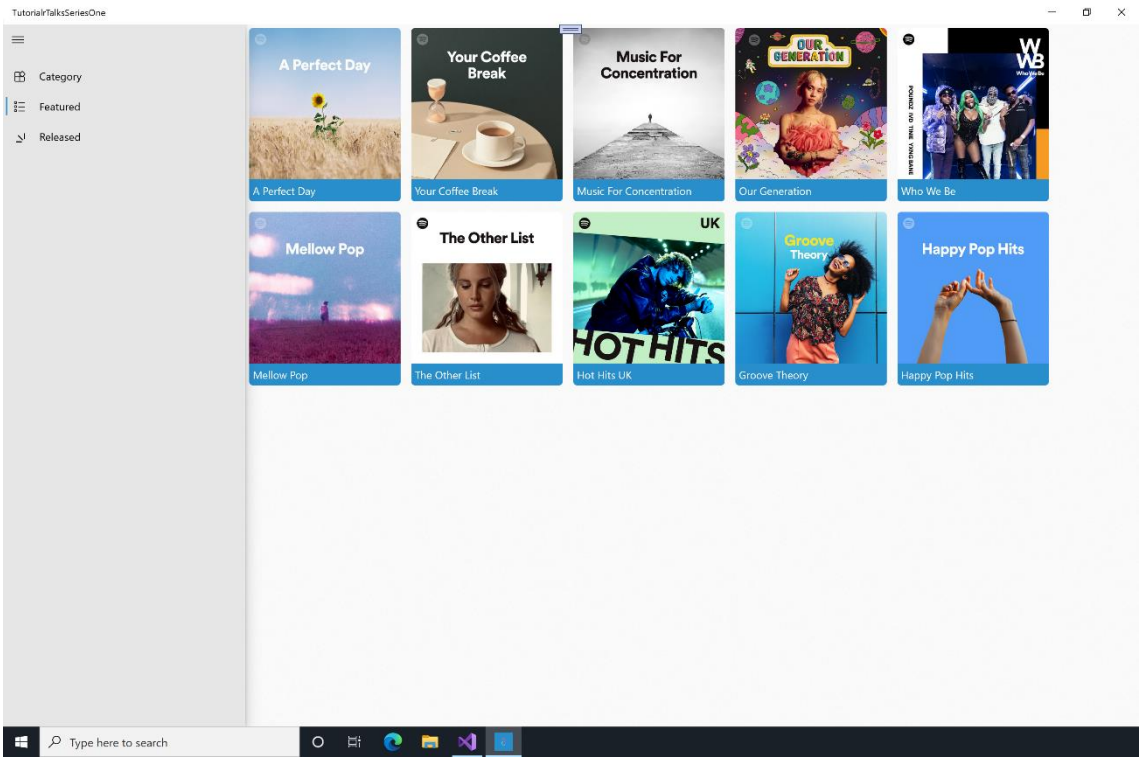


Category when the Rock Category is selected shows Playlists such as the Rock Classics Playlist.

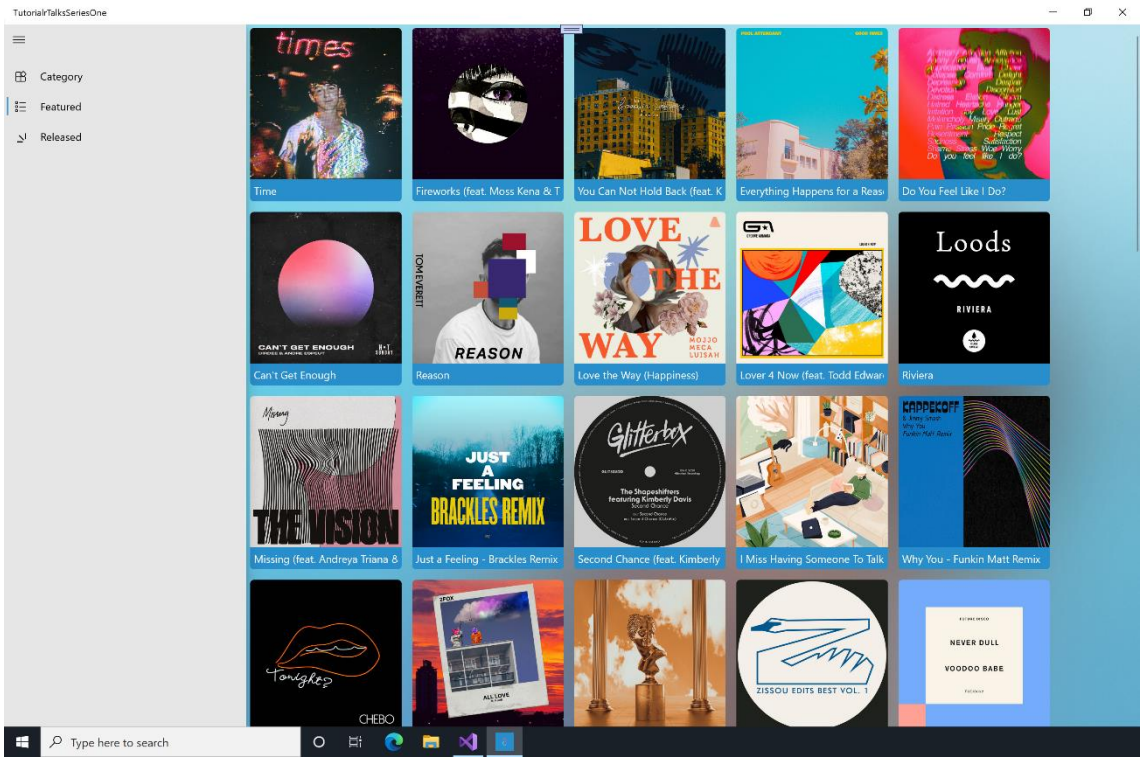


Category when the Rock Classic Playlist is selected shows various Playlist Items.

Featured

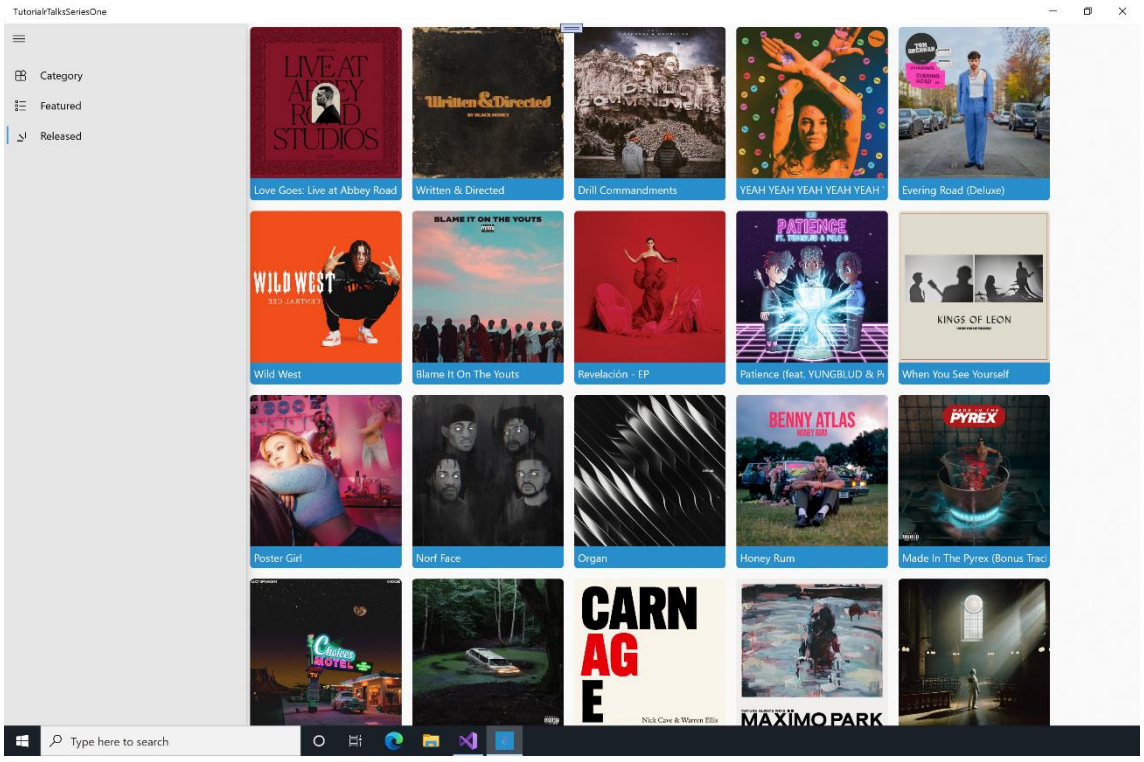


Featured, when selected, shows Playlists from Spotify such as Groove Theory.

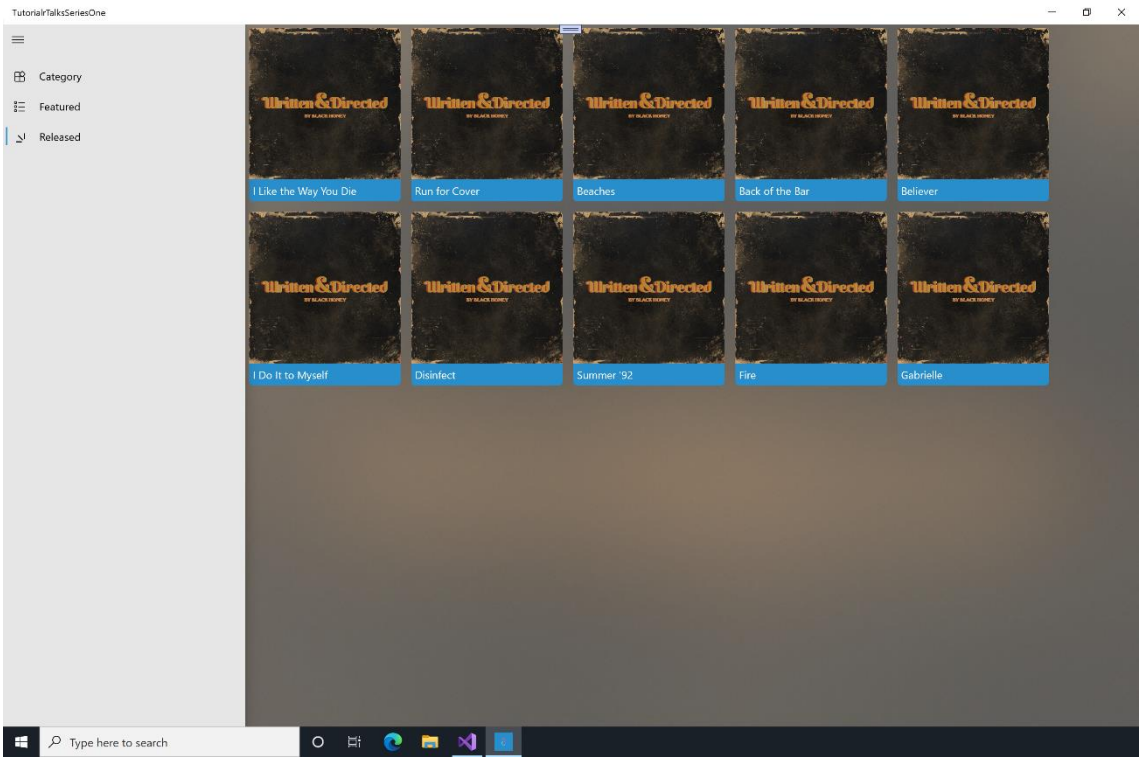


Featured when the Groove Theory Playlist is selected shows various Playlist Items.

Released



Released, when selected, shows recently released Albums from Spotify such as Written & Directed.

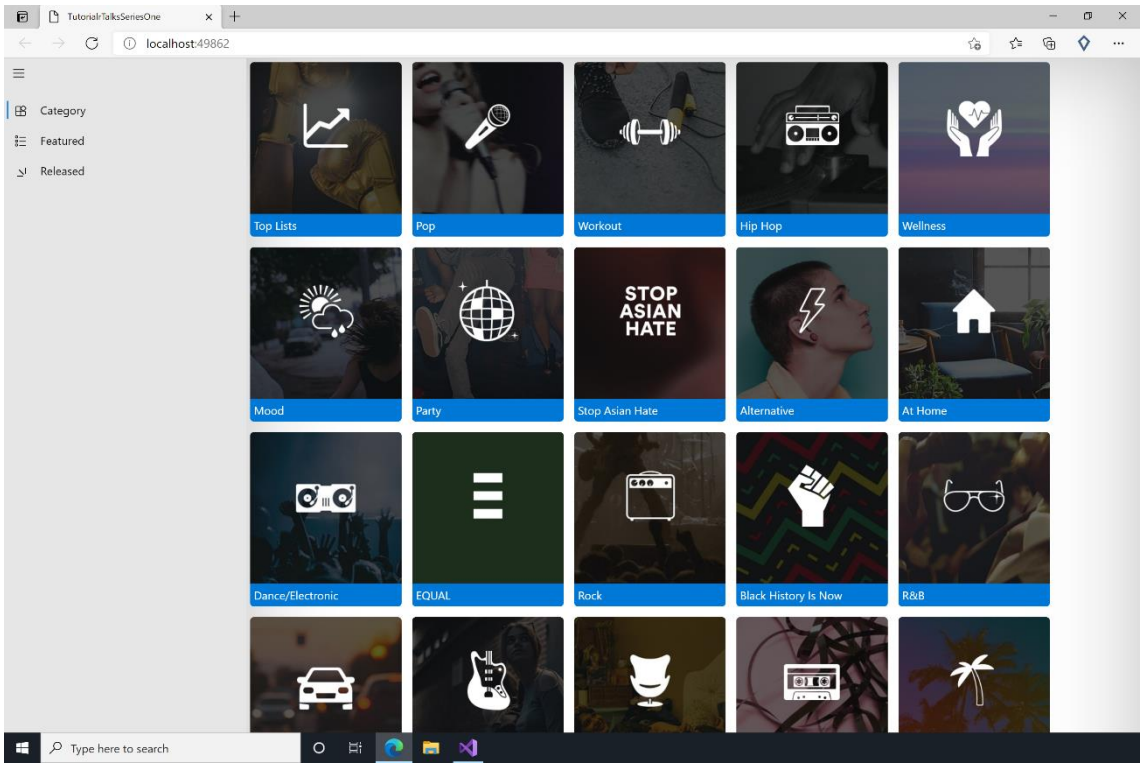


Released when the Written & Directed Album is selected shows the Tracks for the Album.

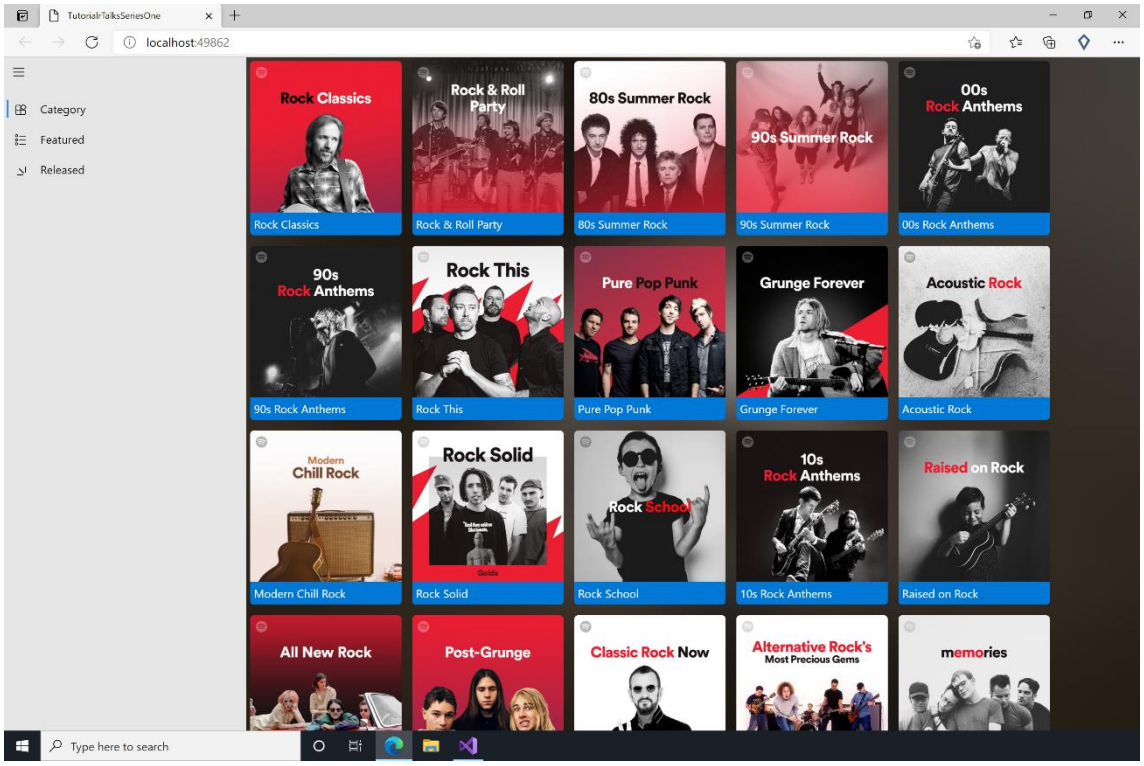
WebAssembly

WebAssembly Demo in Microsoft Edge shows the Navigation View with Category, Featured and Released options along with the Spotify Categories like the Universal Windows Platform Demo.

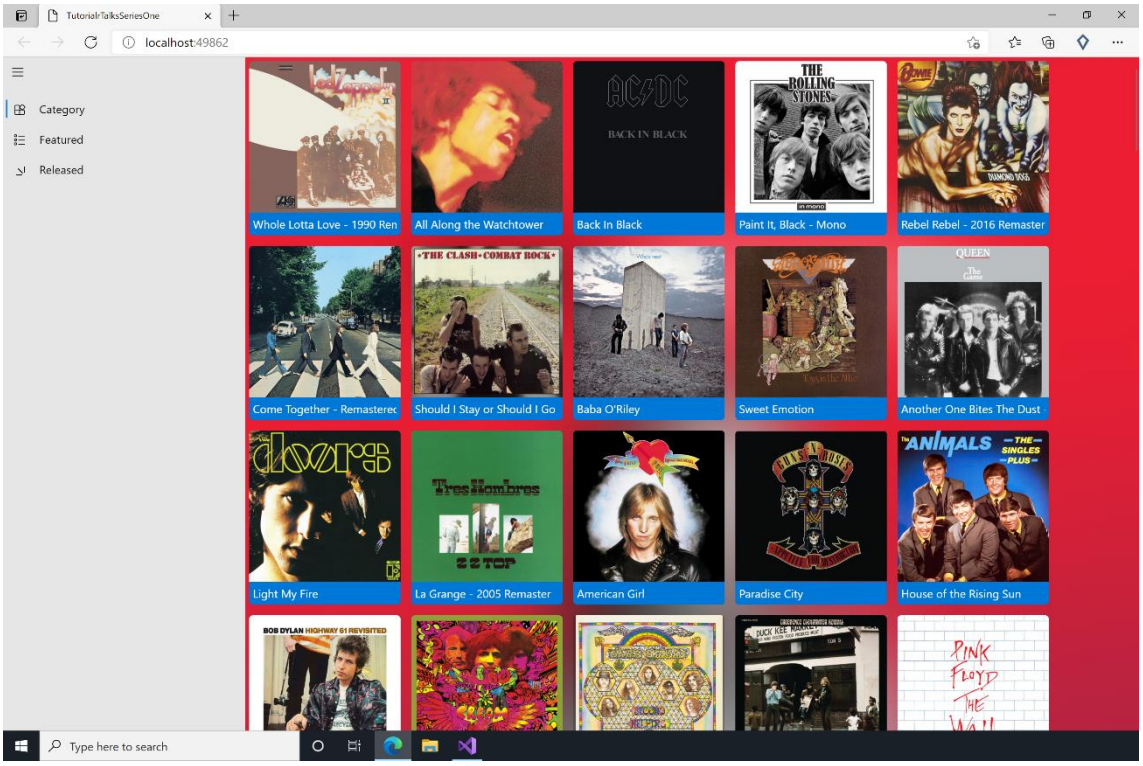
Category



Category shows Spotify Categories such as Rock.

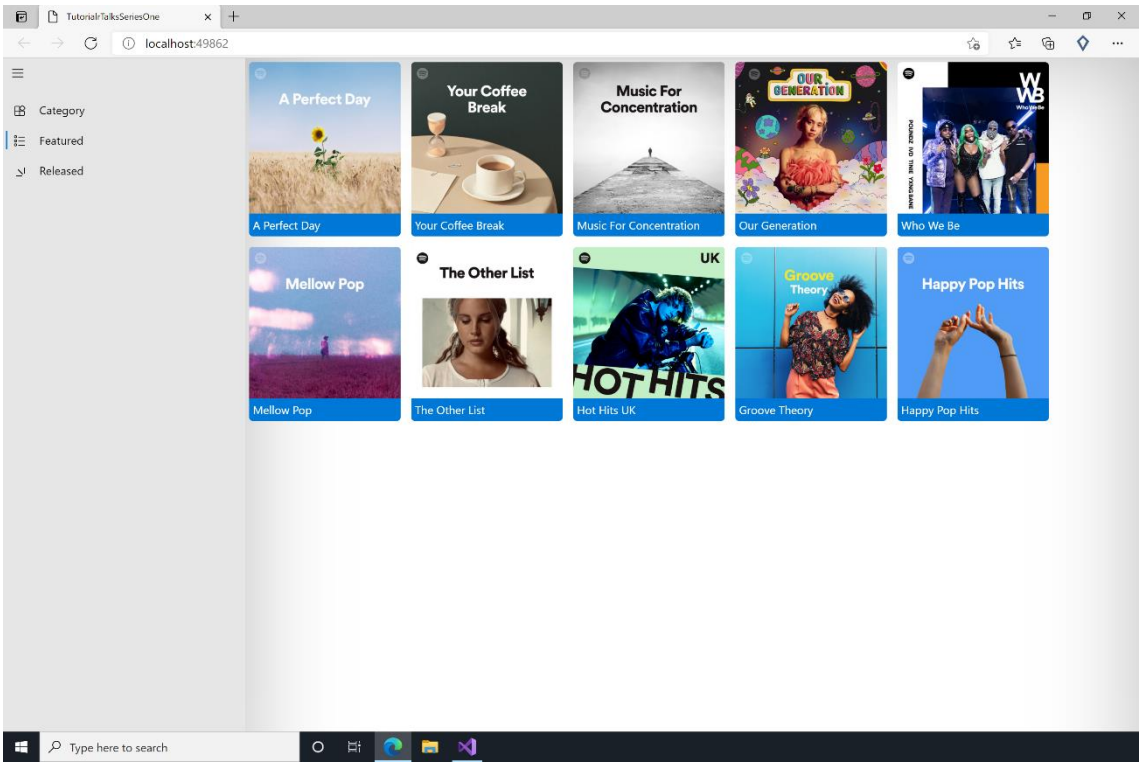


Category when Rock is selected shows Playlists such as Rock Classics.

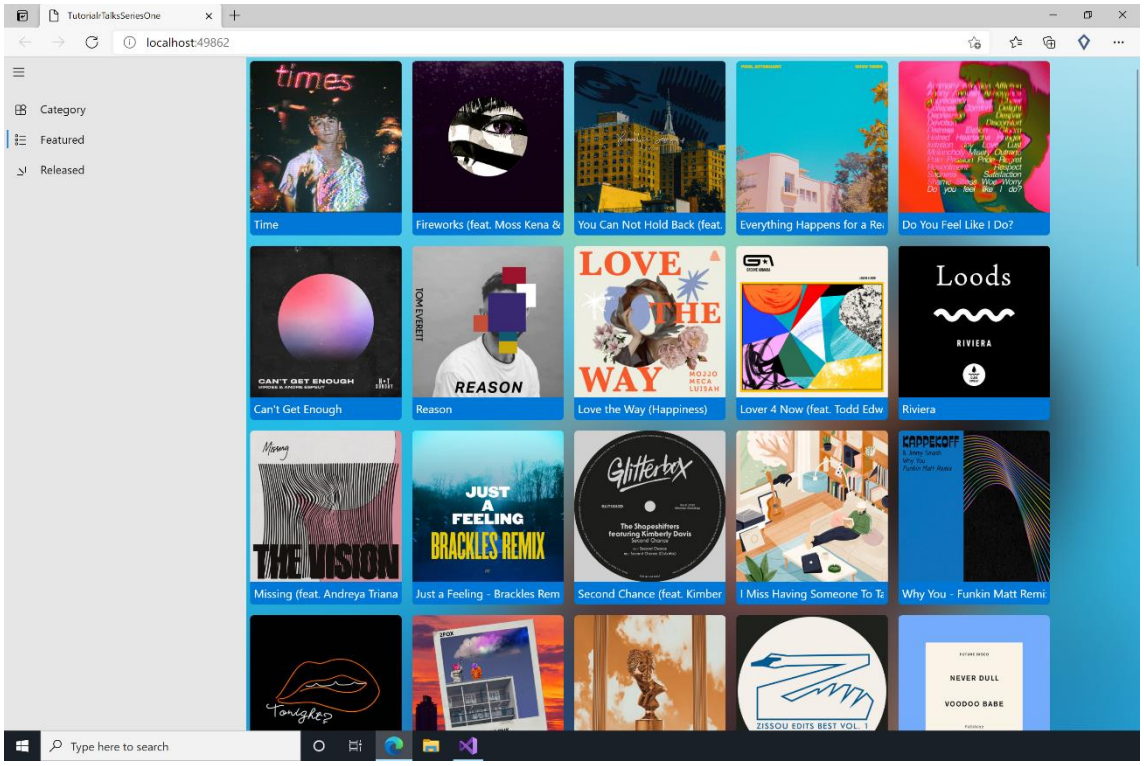


Category when Rock Classic is selected shows the Playlist Items.

Featured

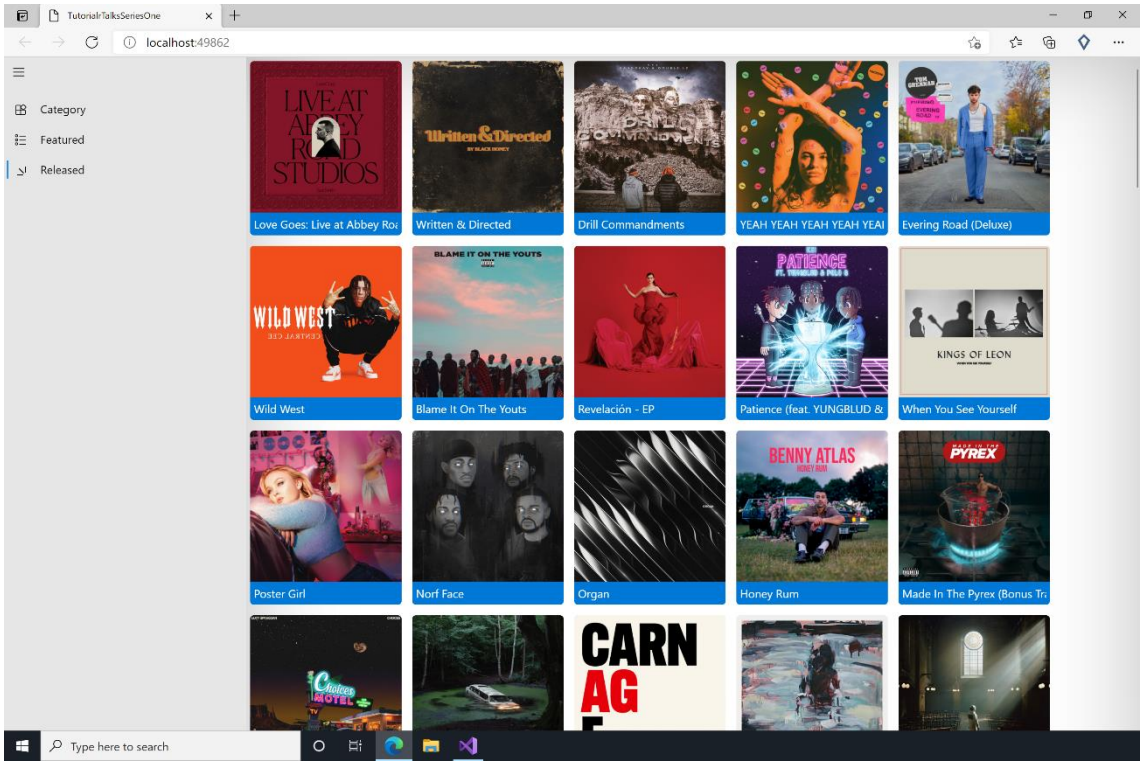


Featured, when selected, shows Featured Spotify Playlists such as Groove Theory like the Universal Windows Platform Demo.

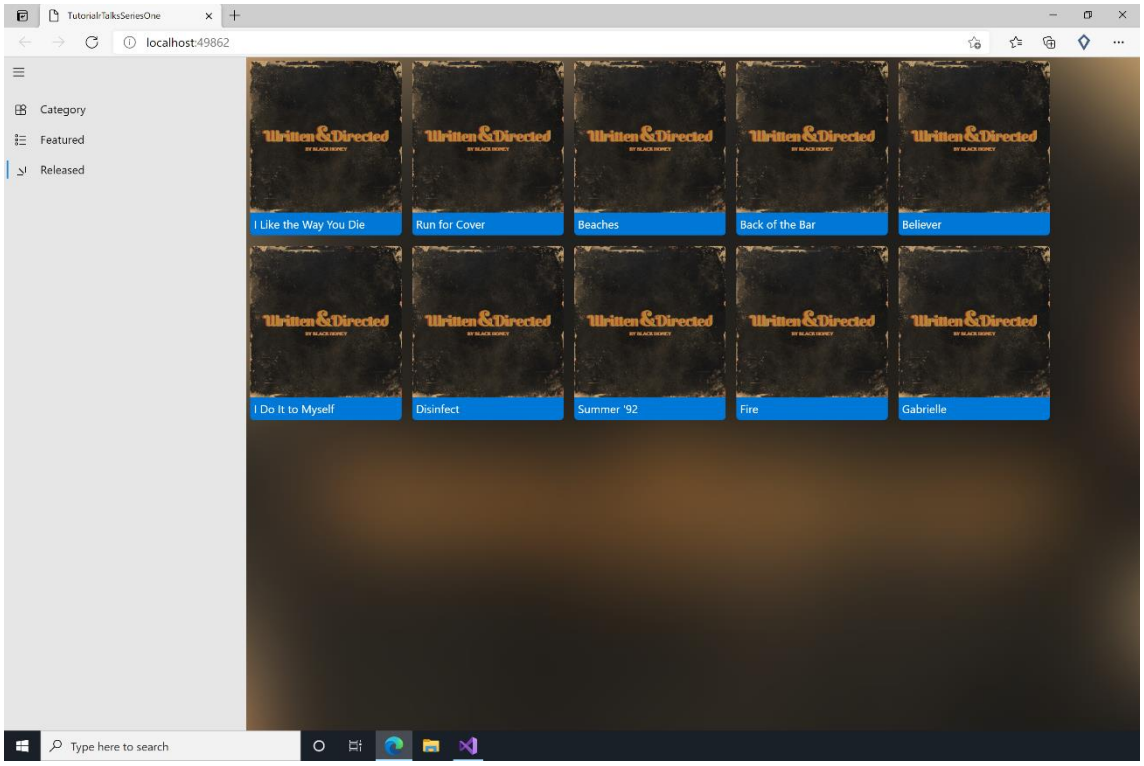


Featured when the Groove Theory is selected shows the Playlist Items.

Released



Released, when selected, shows Recent Albums on Spotify such as Written & Directed like the Universal Windows Platform Demo.



Released when Written & Directed is selected shows the Tracks for the Album.