CSS classes for creating button dropdowns Common CSS classes for creating list groups

list-group

active

disabled

Common CSS classes for creating alerts

dropdown-toggle

List-group-numbered

list-group-item

alert

dropdown-menu dropdown-item

alert-context alert-dismissible

An HTML5 data attribute for creating button dropdowns data-bs-toggle

alert-link btn-close

Data-bs-dismiss

Common CSS classes for creating breadcrumbs

An HTML5 data attribute for creating alerts

breadcrumb breadcrumb-item

Common CSS classes for creating navs

active

nav nav-tabs nav-pills nav-item nav-link active

Common CSS classes for creating navbars

More CSS classes for positioning navbars

navbar navbar-expand-size navbar-light-or-dark navbar-brand navbar-toggler navbar-collapse collapse navbar-nav navbar-alignment

fixed-top fixed-bottom

HTML5 data attributes for creating navbars

Data-bs-toggle Data-bs-target

Grid Classes

The Bootstrap grid system has four classes:

- xs (for phones screens less than 768px wide)
- sm (for tablets screens equal to or greater than 768px wide)
- md (for small laptops screens equal to or greater than 992px wide)
- lg (for laptops and desktops screens equal to or greater than 1200px wide)

The classes above can be combined to create more dynamic and flexible layouts.

DbSet<Entity>

OnModelCreating (builder) DbContext DbContextOptions

Code that builds a query expression by chaining LINQ methods

var query = context.Movies.Where(m => m.Rating > 3) .OrderBy(m => m.Name);

Code that builds a query expression on multiple lines

IQueryable<Movie> query = context.Movies; query = query.Where(m => m.Year > 1970); query = query.Where(m => m.Rating > 3); query = query.OrderBy(m => m.Name);

Code that adds a new movie to the database

var movie = new Movie { Name = "Taxi Driver", Year = 1976,Rating = 4 context.Movies.Add(movie); context.SaveChanges();

How to turn off data validation for the Genre property

Microsoft.AspNetCore.Mvc.ModelBinding.Validation; public class Movie /* MovieId, Name, Year, and Rating properties
same as before */ [Required(ErrorMessage = "Please enter a public string GenreId { get; set; } = string.Empty; public Genre Genre { get; set; } = null!;

Some Bootstrap CSS classes for forms

form-label form-control form-select form-floating col-form-label

CSS classes for working with HTML tables

table table-bordered table-striped table-hover table-responsive

Common CSS classes for creating button groups

btn-group btn-toolbar btn-group-size btn-group-vertical LINQ methods that build or execute a query expression

Where (lambda) OrderBy (lambda) FirstOrDefault(lambda)

A method of the DbSet<Entity> class that gets an entity by its id

Three ways to select a movie by its id

int id = 1;var movie = context.Movies.Where(m => m.MovieId == id).FirstOrDefault(); var movie = context.Movies.FirstOrDefault(m => m.MovieId == id); var movie = context Movies Find(id):

How to specify a foreign key property when adding a Genre property

public class Movie /* MovieId, Name, Year, and Rating properties
 same as before */ [Required(ErrorMessage = "Please enter a genre.")]
public string GenreId { get; set; } = string.Empty;
public Genre Genre { get; set; } = null!;

Another LINQ method that builds a query expression

Include (lambda)

Two columns that are automatically sized

<div class="col">Column 1</div>
<div class="col">Column 2</div>

An element that spans four columns on medium and large screens

<div class="col-md-4">This element spans four columns</div>

An element that spans 4 columns on medium screens and 3 on large

<div class="col-md-4 col-lg-3">
 This element spans three or four columns
</div>

An element that is moved one column to the right on medium screens

<div class="col-md-4 offset-md-1"> This element is offset by one column </div>

Common CSS classes for text

text-left

text-right text-lowercase text-uppercase text-capitalize

Some examples of the text CSS classes

This Text Is Centered. This text is left-aligned

The HTML for the text

 This text is right-aligned. class="text-start"> This text is LEFT-ALIGNED.

A using directive that imports the LINQ namespace

A DbContext property that's used in the examples private MovieContext context { get; set; }

Code that builds a query expression IQueryable<Movie> query =
 context.Movies.OrderBy(m => m.Name);

Code that executes a query expression List<Movie> movies = query.ToList();

Code that builds and executes a query expression

var movies =
 context.Movies.OrderBy(m => m.Name).ToList();

Three methods of the DbSet class

Remove (entity)

One method of the DbContext class

A using directive for the EF Core namespace

ing Microsoft.EntityFrameworkCore;

Valid Bootstrap class values

container container-fluid row col col-size-count offset-size-count

Valid size values

Xxl 1g (none)

Bootstrap CSS classes for working with buttons

btn btn-primary btn-secondary btn-outline-primary btn-outline-secondary

Bootstrap CSS classes for working with imag

img-fluid rounded

Bootstrap CSS classes for working with margins

mb-size me-size m-size

Bootstrap CSS classes for working with padding

pt-size pb-size ps-size pe-size

The context classes available to most elements

Class **Default color** Primary Dark blue secondary Gray success Green info Light blue warning Orange danger Red light Light gray dark Gray