Web Fix Movie Library

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MovieContext:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Data.Entity;
using System.ComponentModel.DataAnnotations.Schema;
namespace WebFlixMovieLibrary
{
    //Do not change Connection Name under this class
    public class MovieContext:DbContext
    {
        public MovieContext():base("Name=DataConnection")
        }
      //Fill your code here to create DbSets MovieGenres and Movies
      public virtual DbSet<MovieGenre> MovieGenres {get; set;}
      public virtual DbSet<MovieInformation> Movies {get; set;}
        protected override void OnModelCreating(DbModelBuilder modelBuilder)
           //Fill your code here to implement Fluent API
           modelBuilder.Entity<MovieGenre>().ToTable("tblMovieGenre");
           modelBuilder.Entity<MovieInformation>().ToTable("tblMovie");
           modelBuilder.Entity<MovieGenre>().HasKey(g => g.MovieGenreId);
           modelBuilder.Entity<MovieGenre>().Property(g =>
g.MovieGenreId).HasDatabaseGeneratedOption(DatabaseGeneratedOption.None);
           modelBuilder.Entity<MovieInformation>().HasKey(m => m.MovieId);
           modelBuilder.Entity<MovieInformation>().Property(m =>
m.MovieId).HasDatabaseGeneratedOption(DatabaseGeneratedOption.None);
           modelBuilder.Entity<MovieInformation>()
           .HasRequired<MovieGenre>(m => m.Genre)
           .WithMany(g => g.MovieCollection)
           .HasForeignKey<int>(m => m.MovieCategoryId);
        }
    }
}
MovieFeedback:
using System;
namespace WebFlixMovieLibrary
{
    //Write your code
    public class MovieFeedback{
        public string GetFeedbackByRating(int rating){
        if(rating<2)
        return "Bad";
```

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else if(rating>=2 && rating<4)
        return "Average";
        else if(rating>=4)
        return "Good";
        else
        return " ";
    }
}
MovieGenre:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace WebFlixMovieLibrary
{
    public class MovieGenre
        //Fill your code here
        public int MovieGenreId {get; set;}
        public string MovieCategory {get; set;}
        public virtual ICollection<MovieInformation> MovieCollection {get; set;}
    }
}
MovieInformation:
using System;
using System.Collections.Generic;
using System.Linq;
using System. Text;
using System. Threading. Tasks;
namespace WebFlixMovieLibrary
{
    public class MovieInformation
        //Fill your code here
        public int MovieId {get; set;}
        public int MovieCategoryId {get; set;}
        public virtual MovieGenre Genre {get; set;}
        public string MovieName {get; set;}
        public int ReleaseYear {get; set;}
        public string AudienceFeedback {get; set;}
    }
}
MovieRespository:
using System;
using System.Collections.Generic;
using System.Linq;
```

```
using System. Text;
using System. Threading. Tasks;
namespace WebFlixMovieLibrary
{
    public class MovieRepository
        //Fill your code here
        public MovieGenre AddNewGenre(MovieGenre category){
            using(MovieContext cxt = new MovieContext()){
                cxt.MovieGenres.Add(category);
                cxt.SaveChanges();
                return category;
            }
        }
        public IList<MovieGenre> DisplayMovieGenres(){
            using(MovieContext cxt = new MovieContext()){
                return cxt.MovieGenres.ToList();
            }
        }
        public MovieInformation AddNewMovie(MovieInformation movie){
            using(MovieContext cxt = new MovieContext()){
                cxt.Movies.Add(movie);
                cxt.SaveChanges();
                return movie;
            }
        }
        public IList<MovieInformation> DisplayMovieLibrary(){
            using(MovieContext cxt = new MovieContext()){
                return cxt.Movies.ToList();
            }
        }
    }
}
Program:
using System;
using System.Collections.Generic;
using System.Linq;
using System. Text;
using System. Threading. Tasks;
namespace WebFlixMovieLibrary
{
    class Program
        static void Main(string[] args)
            MovieGenre movieGenre;
            MovieInformation movieInformation;
            MovieRepository movieRepository;
            string loopInput = string.Empty;
            int menuChoice = 0;
            do
            {
                Console.WriteLine("Welcome Admin to WebFlix Movie Library");
```

```
Console.WriteLine("Menu:\n1. Add New Movie Genre\n2. Display All Movie
Genre\n" +
                    "3. Add New Movie to library\n4. Display Movie Library");
                menuChoice = Convert.ToInt32(Console.ReadLine());
                switch (menuChoice)
                {
                    case 1:
                        trv
                        {
                            movieGenre = new MovieGenre();
                            Console.WriteLine("Enter Genre Id:");
                            movieGenre.MovieGenreId = int.Parse(Console.ReadLine());
                            Console.WriteLine("Enter movie category:");
                            movieGenre.MovieCategory = Console.ReadLine();
                            movieRepository = new MovieRepository();
                            MovieGenre newGenre =
movieRepository.AddNewGenre(movieGenre);
                            Console.WriteLine("New movie Genre added successfully");
                        }
                        catch
                            Console.WriteLine("New movie Genre addition failed. Check
your entry or application logic.");
                        break;
                    case 2:
                        movieRepository = new MovieRepository();
                        Console.WriteLine("List of movie categories:");
                        Console.WriteLine("{0,-20}{1}", "Genre Id", "Genre Type");
                        IList<MovieGenre> GenreList =
movieRepository.DisplayMovieGenres();
                        foreach (var Genre in GenreList)
                            Console.WriteLine("{0,-20}{1}", Genre.MovieGenreId,
Genre.MovieCategory);
                        break:
                    case 3:
                        try
                        {
                            movieInformation = new MovieInformation();
                            movieRepository = new MovieRepository();
                            Console.WriteLine("Enter movie id:");
                            movieInformation.MovieId =
Convert.ToInt32(Console.ReadLine());
                            Console.WriteLine("Choose the movie Genre id:");
                            movieInformation.MovieCategoryId =
Convert.ToInt32(Console.ReadLine());
                            Console.WriteLine("Enter the movie name:");
                            movieInformation.MovieName = Console.ReadLine();
                            Console.WriteLine("Enter movie release year:");
                            movieInformation.ReleaseYear =
Convert.ToInt32(Console.ReadLine());
                            Console.WriteLine("Enter Viewer Rating(between 1 to 5):");
                            int rating = Convert.ToInt32(Console.ReadLine());
                            MovieFeedback feedback = new MovieFeedback();
                            movieInformation.AudienceFeedback =
feedback.GetFeedbackByRating(rating);
```

```
MovieInformation newMovie =
movieRepository.AddNewMovie(movieInformation);
                              Console.WriteLine("New movie added to database");
                         catch
                              Console.WriteLine("New movie addition failed.");
                             Console.WriteLine("Either same movie id already exists in
database or wrong data input.");
                         break;
                     case 4:
                         Console.WriteLine("Display Movie Library:");
                         Console.WriteLine("\{0,-20\}\{1,-20\}\{2,-20\}\{3,-20\}\{4\}", "Movie Id", "Movie Name", "Category", "Release Year",
"Audiance Feedback");
                         movieRepository = new MovieRepository();
                         IList<MovieInformation> movieList =
movieRepository.DisplayMovieLibrary();
                         if (movieList.Count > 0)
                              foreach (var movie in movieList)
                                  Console.WriteLine("{0,-20}{1,-20}{2,-20}{3,-20}{4}",
                                      movie.MovieId, movie.MovieName,
movie.Genre.MovieCategory,
                                      movie.ReleaseYear, movie.AudienceFeedback);
                             }
                         }
                         else
                              Console.WriteLine("No movie is present in library");
                         break;
                     default:
                         Console.WriteLine("Invalid menu entry. Enter 1 or 2 or 3");
                         break;
                 Console.WriteLine("Enter yes to continue.. Any other key to terminate:");
                 loopInput = Console.ReadLine();
            while (loopInput.Equals("yes",
StringComparison.InvariantCultureIgnoreCase));
            Console.WriteLine("Thank you for using the movie application. Have a nice
day");
        }
    }
}
```