# Developer Test Application - Solution

The following application was developed to test a developer’s aptitude in normal day-to-day development tasks.

Under the D:\Projects\DevTestApp directory you will find the Visual Studio solution.

Open the solution in Visual Studio 2022.

The application is an ASP.Net MVC application that calls an API to retrieve a list of movies. The application has a few bugs in it. Some will be easy to find while others may take a few minutes to sort out.

The first step of the task is to get the project to compile and run. There are several issues that the Visual Studio IDE will help you to fix. Some may not be so obvious.

Once you can compile and run the application, there are a few items we would like addressed.

First, in the display of the movie titles on the web page, it appears that the titles are not displaying properly.

The issue is with the Film.cs file. The [JsonProperty(“title”)]

The order that the films are displayed, by default, chronologically based on their release date. Update or Add code so the list is sorted by the Episode ID.

You can use one of the two following lines to achieve that:

films.Sort((a, b) => a.EpisodeId.CompareTo(b.EpisodeId));

films = films.OrderBy(o => o.EpisodeId).ToList();

Add this to the Index method of the controller. After the films = Films; line right about line 34 of the file.

You are free to use Google to aid in you in this task.

The API used is at the following address

<https://swapi.info/api/films>

You can pull the raw JSON response going to that url in a web browser.

You can also get information about the api films method going to this web page:

<https://swapi.info/films>

The project has the title of Star Trek Movie Database but they are Star Wars movies. You can correct that for extra points.

The NewtonSoft Json package is missing from the package directory of the project. It will show errors in the code. When compiling the project, nuget will restore the package.

The final line of the Index method in the HomeController file has a typo.

return View(film);

should be

return View(films);

at the top of the controller there is an error

using System.Web.json; shows an error on the word json

This line is not required. You can delete it without any harm to the project.

In the Index.cshtml file, there is an error on line 20 that creates issues on the preceding lines. The line: @foreach (film in Model) is missing the data type declaration. It should be

@foreach (var film in Model)

Or

@foreach (Film film in Model)

Either will work

In HomeController.cs the following line has an error:

ViewBag.Message = webFormat("Movies Page");

webFormat is in the TestAppUtility class. To fix this line you will need to initialize the class and change the line to:

TestAppUtility util= new TestAppUtility();

ViewBag.Message = webFormat("Movies Page");