

# MoviesApp Technical Documentation

Product Name: MoviesApp

Product Version: 1.0.0

Owner: Jesus Contreras

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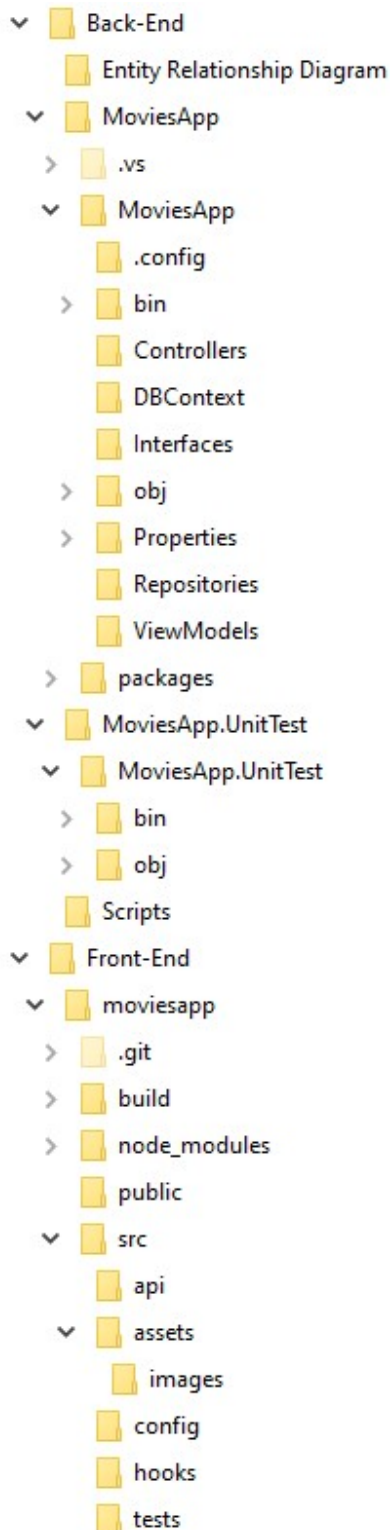
## Product Overview

MoviesApp is a web-based application to browser movies information such as Title or Name, Director's Name, Production Year, Name of Actors (cast), Genres and the picture of their official posters.

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## Project Folders and Files



Project is configured in Front-End and Back-End files.

Back-End folder contains Entity Relationship Diagram, Database scripts and source code for REST APIs (MoviesApp) and Tests (MoviesApp.UnitTest) C# projects.

Front-End folder contains source code for React functional components, custom hooks, helpers, HTML, CSS and images.

## Requirements Technical Sheet

PC computer with Microsoft Windows 10 or Microsoft Windows Server as Web API server

PC computer with Linux, Microsoft Windows 10 or Microsoft Windows Server as Front-End Web server

Microsoft Internet Information Server as Web API server

Node JS and NPM HTTP Server as Front-End server

Microsoft SQL Server 2012 or above as Database Management System

## Development Technical Sheet

### Front-End

- MoviesApp Front-End layer was built upon the following technologies:
- React JS 17
- HTML 5
- CSS 3
- Bootstrap 4.5
- Animate.css 4.1
- Microsoft Visual Studio Code 1.6 as IDE

### Back-End

- MoviesApp Back-End layer was built upon the following technologies:
- RESTful Web APIs made with C#
- Microsoft Internet Information Server as web server
- Microsoft Windows Server as OS server
- Microsoft SQL Server 2017 as Database Management System
- DDL, DML and Store Procedure scripts made with Microsoft Transact SQL
- Microsoft Visual Studio 2022 Preview 4 as IDE

# Deployment Instructions

## Back-End

### Database setup

Create database using Microsoft SQL Server Management Studio IDE or use provided script “1 create\_database.sql” located in folder \MoviesApp\Back-End\Scripts. If so, consider changing the following `FILENAME` parameters accordingly:

```
FILENAME = N'C:\Program Files\Microsoft SQL  
Server\MSSQL14.SQLEXPRESS\MSSQL\DATA\MovieAppDatabase.mdf'
```

```
FILENAME = N'C:\Program Files\Microsoft SQL  
Server\MSSQL14.SQLEXPRESS\MSSQL\DATA\MovieAppDatabase_log.ldf'
```

Recommended database name is “MovieAppDatabase”.

### Database data

Proceed to run provided scripts in folder \MoviesApp\Back-End\Scripts in this order:

2 create\_tables.sql

3 insert\_data.sql

4 create\_sp\_movie\_getbyfilter.sql

### Web API site setup

To create web site in Windows IIS follow steps mentioned on this link [How to Deploy ASP.NET Core to IIS & How ASP.NET Core Hosting Works – Stackify](#)

Proceed to deploy MoviesApp Back-end files from folder \MoviesApp\Back-End\MoviesApp\MoviesApp\obj\publish to the created site. Change connection string in `appsettings.json` file according to SQL Server database connection parameters:

```
"MainConnection": "Server<your server name>; Database=MovieAppDatabase; User  
id=<user>; Password=<password>;"
```

## Front-End

### Web server setup

Install Node JS following instructions in [Node.js \(nodejs.org\)](https://nodejs.org)

Option 1: Install HTTP Server following instructions in [http-server - npm \(npmjs.com\)](https://npmjs.com/http-server)

Proceed to create a folder and copy MoviesApp Front-End files provided in \MoviesApp\Front-End\moviesapp\build folder.

From that folder run the following command:

```
http-server . -p <your port>
```

Option 2: Run following NPM commands:

```
npm install -g serve
```

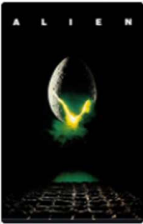
```
serve -s build
```

APPENDIX

MoviesApp main screen

Movies App

Search here by movie name, director (minutes), duration, year or cast




**Alien**

Ridley Scott

1979

Sigourney Weaver, Tom Skerrit, John Hurt

Horror, Science Fiction




**Lock, Stock and Two Smoking Barrels**

Guy Ritchie

1998

Jason Flemyng, Dexter Fletcher , Nich Moran, Jason Statham

Comedy, Crime




**Star Wars**

George Lucas

1977

Mark Hamill, Harrison Ford, Carrie Fisher

Action, Adventure, Science Fiction




**Jaws**

Steven Spielberg

1975

Roy Scheider, Richard Dreyfuss, Robert Shaw

Adventure, Horror, Thriller




**Reservoir Dogs**

Quentin Tarantino

1992

Harvey Keitel, Tim Roth, Michael Madson, Chris Penn, Steve Buscemi

Thriller, Crime



**The Good, The Bad and The Ugly**

Sergio Leone

1966

Clint Eastwood, Eli Wallach, Lee Van Cleef

Western

Entity Relationship Diagram

