Introduction

By default, the application is ready to be used using Postman for endpoint testing and Google Chrome for the front end test that lists the movies available from the VHS Movie Rental store.

Steps to generate the database

1. In Visual Studio, open the **VHSMovieRentalAPI** solution
2. Open Package Manager Console and execute the Update-Database command
3. Insert the sample records using the **InsertSQL.sql** script, test records will be inserted in all the Database tables
   a. Using SSMS: Locate the **VHSMovieRentalDB** database in the SQLEXPRESS instance, and execute the query from there.
   b. Using Server Explorer: Add the connection to the database using as SQLEXPRESS server and **VHSMovieRentalDB** database. Once the connection was added, the record insertion script would be executed.

At this point the application and the database are assembled and ready to be used.

Add Postman Collection and Environment

Steps to add the request collection to evaluate each point

1. Open Postman
2. Use the Import -> Import From Link option, and copy the following link
   https://www.getpostman.com/collections/3799589e29eef180aa71
3. Import the VHS Environment, use the option Manage Environments -> Import and then add the file **VHS.postman_globals.json**. In case, the value for the Administrator and Customer tokens are not imported correctly, then try adding one for each role with the values at the end of this document.

At this point the application's Endpoints can be consulted using postman and the JWT authentication tokens are generated for the administrator and client roles.

Endpoint operation

At each point is the explanation of the operation and the necessary steps to verify the requirement. For requests that require authentication it is necessary to use JWT tokens which can be generated using the Login method with the following credentials:

- User ADMIN: **kevinadmin**   Password: **password**
- User CUSTOMER: **kevin**   Password: **password2**

Table of API usage

Requirement	Authorization	Endpoint	Notes
Add a Movie	Administrator	Add Movie	
Modify a Movie	Administrator	Update Movie & Add Log	Only admins can modify Availabilty
Delete a Movie	Administrator	Delete Movie	
Save a Log of Tile, Rental/Sale Price	Customer	Update Movie & Add Log	These logs are created during a Movie Update. The Movie entity will remain with the latest values, while the Log table will keep track of the historic values
Movie Rent and Purchase	Customer	Save Transaction & Details	For rent or purchase, the stock quantity of the movie will be evaluated before any further action
Keep a log of Movie Rentals and Purchases	Customer	Save Transaction & Details	These details are stored while making a Transaction. The price comes from the Movie entity
Rental return	Administrator	Movie Rental return	If the return date exceeds the maximum amount of days for renting a movie without a penalty, the price of the detail will be affected, and then the Return status of the Detail will be updated to True.
Like a Movie	Customer	Movie Like	One user can only like one movie once. Like / unlike functionality
List all Movies	All	List movies by Availabilty, Title	- Sort by Title (default) - Sort by Like - Pagination - Search by Name
User Login	All	Login	Use provided credentials
Get Movie Details	All	Get Movie Details	
Forgot Password	Administrator/Customer	Forgot Password	The email will be sent to the email stored in the Users table. **If you want to receive the email the easiest way is to alter an existing user record and update the mail with your email account.**
Password Reset	Administrator/Customer	Password Reset	This link will only work once before changing the Password, this is because a Token is generated using a secret string combined with the old password. **Take the token from the URL in the email you received by using the 'Forgot**

			Password' endpoint and paste it in the body of this request along with the new password.
Confirm User account	Administrator/Customer	Activate Account	When you create an User using the endpoint in the UserController, the User entity is stored in the DB with Active status false, then you will receive an email to the email account you just provided and by clicking the link inside the email, your user will be activated
Change other User's role	Administrator	Update user Role	The Endpoint updates a User including their role. But only Admins can update their role or other people's Role

Front End Application

In the following url there is a table that lists all the available movies.

https://localhost:44306/Default/Index

You can sort by title, or by number of likes. There is also the option to search by title. In addition, it supports pagination and number of records per page.

JWT for Admins and Customers

- Admin
  - JWTTOKEN
    eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIxIiwicm9sZSI6IkFkbWluaXN0cmF0b3IiLCJuYmYiOjE1ODI0NDU1NTIsImV4cCI6MTU4MzA1MDM1MiwiaWF0IjoxNTgyNDQ1NTUyfQ.z7LvObkaXt2R-_fCT2P4mmt4LOA5HVOL_rYWKimXfv4
- Customer
  - JWTTOKEN_CUSTOMER
    eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJuYW1laWQiOiIzIiwicm9sZSI6IkN1c3RvbWVyIiwibmJmIjoxNTgyNDQ2OTkzLCJleHAiOjE1ODMwNTE3OTMsImlhdCI6MTU4MjQ0Njk5M30.d3H-ZJcVA8dsAGu2r7o8segFcew-S4JXRBVX9_q4KMM