

Assignment 2

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Project : Movie rental

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**Design REST API as we did in the class. It should be designed according to your project and your own modules.**

**Specify Modules, Routers, Methods, Routes URIs and all the mount points.**

**Also specify important scenarios. The normal course of actions, alternates and possible exceptions.**

# Scope:

Movie rental is a system that is designed for movie lovers. Users can rent any movie for limited time by using different available package. User can also purchase movies. Admin can mange users movies , keep record of borrowing details.

This API can only be used locally where the users handles everything. Then the borrowers (customers,) will only do is to borrow or buy and return the movies.

# Specifications:

## Routers:

* Users Management
* Categories Management
* Movie Management
* feedback

## Features:

Create, Read, Update and Delete resource.

Authentication

## Details:

User management includes management of customers and admin.

Categories management will include the management of movie categories.

Movie management will be simple management of the movies.

# Routers:

**Users**

GET requires authentication (auth token)

| **METHOD** | **ENDPOINT** | **USAGE** | **RETURNS** |
| --- | --- | --- | --- |
| POST | /api/users | Register a User | A User data, auth token in response header |
| GET | /api/users/me | Get current User | Current User data |

**Authentication**

| **METHOD** | **ENDPOINT** | **USAGE** | **RETURNS** |
| --- | --- | --- | --- |
| POST | /api/auth | Login a User | A User data, auth token in response header |

**Categories**

POST, PUT and DELETE requires authentication (auth token)

| **METHOD** | **ENDPOINT** | **USAGE** | **RETURNS** |
| --- | --- | --- | --- |
| GET | /api/categories | Get all Categories | List of Categories |
| GET | /api/categories/{id} | Get an Category | Single Category |
| POST | /api/categories | Create Category | Created Category |
| PUT | /api/categories/{id} | Update Category | Updated Category |
| DELETE | /api/categories/{id} |  |  |

**Movies**

POST, PUT and DELETE requires authentication (auth token)

| **METHOD** | **ENDPOINT** | **USAGE** | **RETURNS** |
| --- | --- | --- | --- |
| GET | /api/movies | Get all Movies | List of Movies |
| GET | /api/movies/{id} | Get an Movies | Single Movies |
| POST | /api/movies | Create Movies | Created Movies |
| PUT | /api/movies/{id} | Update Movies | Updated Movies |
| DELETE | /api/movies/{id} |  |  |

# Sunny and Rainy-Day Scenarios:

## Sunny Day:

* You are logged in
* Database is connected
* Categories are created
* Movies are added
* Categories are deleted
* Movies are deleted
* You are logged out

## Rainy Day:

* You are not connected to the database
* Data is not edited
* You are not logged in
* You are not authorized
* There is schema error data sent is not adhere to schema.