**Movies REST API Documentation**

**Base URL**

http://localhost:3000/api

**Authentication**

All protected endpoints require a JSON Web Token in the Authorization header:

Authorization: Bearer <token>

**Register User**

* **URL:** /auth/register
* **Method:** POST
* **Auth:** ❌ Public
* **Body:**
* {
* "username": "string",
* "password": "string"

}

* **Responses:**
  + 201 Created – { message: "User registered", userId: <int> }
  + 400 Bad Request – missing fields or username taken

**Login User**

* **URL:** /auth/login
* **Method:** POST
* **Auth:** ❌ Public
* **Body:**
* {
* "username": "string",
* "password": "string"

}

* **Responses:**
  + 200 OK – { message: "Login successful", token: "<jwt>" }
  + 401 Unauthorized – invalid credentials

**Films**

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Endpoint** | **Auth** | **Description** |
| GET | /films | ❌ | List all films |
| GET | /films/:id | ❌ | Get film by ID |
| POST | /films | ✅ | Create new film |
| PUT | /films/:id | ✅ | Update film by ID |
| DELETE | /films/:id | ✅ | Delete film by ID |

**Film Body (POST/PUT)**

{

"title": "string",

"description": "string",

"release\_year": 2024,

"language\_id": <int>,

"rental\_duration": <int>,

"rental\_rate": <decimal>,

"length": <int>,

"replacement\_cost": <decimal>

}

**Categories**

|  |  |  |  |
| --- | --- | --- | --- |
| Method | Endpoint | Auth | Description |
| GET | /categories | ❌ | List all categories |
| GET | /categories/:id | ❌ | Get category by ID |
| POST | /categories | ✅ | Create new category |
| PUT | /categories/:id | ✅ | Update category by ID |
| DELETE | /categories/:id | ✅ | Delete category by ID |

**Category Body (POST/PUT)**

{ "name": "string" }

**Actors**

|  |  |  |  |
| --- | --- | --- | --- |
| Method | Endpoint | Auth | Description |
| GET | /actors | ❌ | List all actors |
| GET | /actors/:id | ❌ | Get actor by ID |
| POST | /actors | ✅ | Create new actor |
| PUT | /actors/:id | ✅ | Update actor by ID |
| DELETE | /actors/:id | ✅ | Delete actor by ID |

**Actor Body (POST/PUT)**

{

"first\_name": "string",

"last\_name": "string"

}

**Film-Categories**

|  |  |  |  |
| --- | --- | --- | --- |
| Method | Endpoint | Auth | Description |
| GET | /filmCategories | ❌ | List all film-category links |
| GET | /filmCategories/:id | ❌ | Get link by ID |
| POST | /filmCategories | ✅ | Create film-category link |
| DELETE | /filmCategories/:id | ✅ | Remove film-category link |

**FilmCategory Body (POST)**

{ "film\_id": <int>, "category\_id": <int> }

**Film-Actors**

|  |  |  |  |
| --- | --- | --- | --- |
| Method | Endpoint | Auth | Description |
| GET | /filmActors | ❌ | List all film-actor links |
| GET | /filmActors/:id | ❌ | Get link by ID |
| POST | /filmActors | ✅ | Create film-actor link |
| DELETE | /filmActors/:id | ✅ | Remove film-actor link |

**FilmActor Body (POST)**

{ "film\_id": <int>, "actor\_id": <int> }

**Error Responses**

All errors return JSON:

{ "message": "Description of error" }

**Notes**

* All POST, PUT, DELETE require Authorization header.
* All timestamps in responses are ISO‑8601 strings.