NODE JS RESTful API for Movie tracking system

Introduction

This is a basic Node JS RESTful API for a simple movie tracking system. We manage movies and actors. We are using Postman for checking our routes. The movie schema has the following attributes

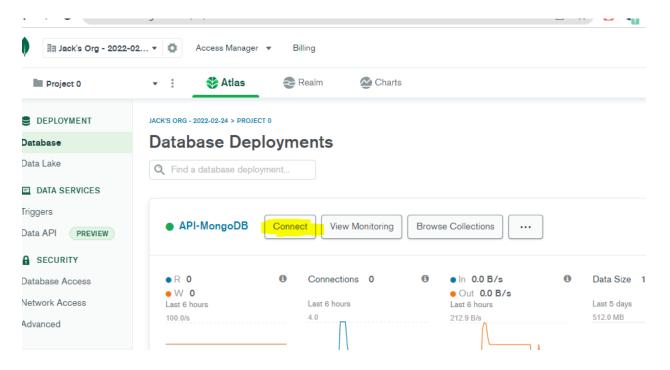
- i) Name (String)
- ii) Genre (String)
- iii) Actors (Array of Actor IDs, ObjectID associated with schema)
- iv) Business done (Number)
- v) Reviews (Array of Strings)
- vi) Rating (Number)

The Actor schema has the following attributes.

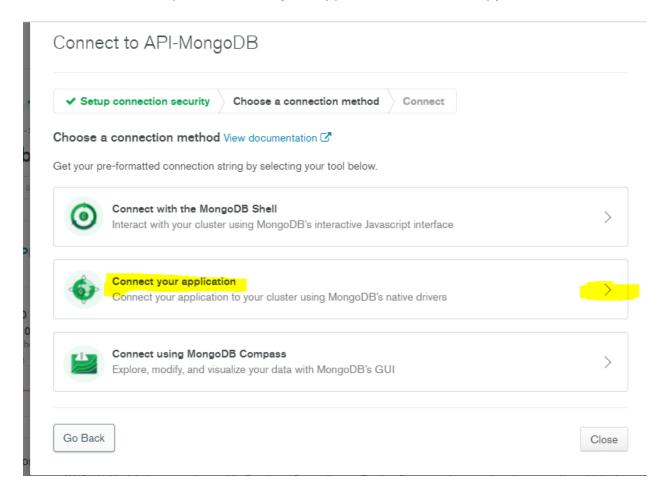
- i) Name (String)
- ii) Age (Number)
- iii) Gender (String)

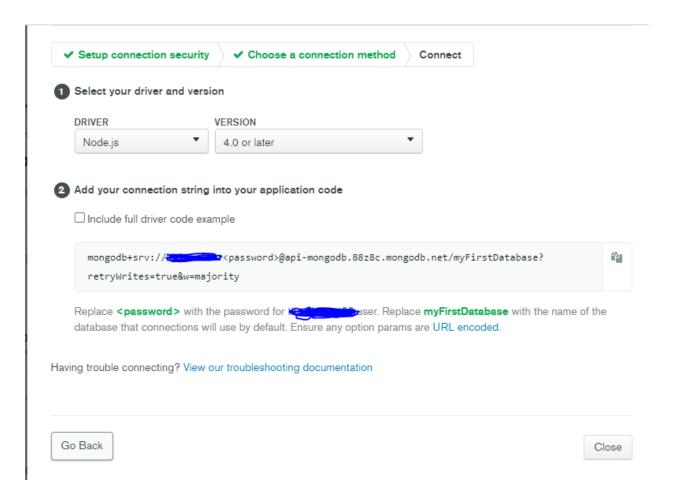
Pre Requisites

- i) Before we run our program, you need to sign up for mongoDB atlas. Go to the following link and sign up using yours google account.
 - https://www.mongodb.com/cloud/atlas/register
- ii) Now, sign in to the mongoDB atlas. You can see a connect button on the top left side. Simply click it.



iii) After this select the option "Connect your application" and then copy the URL.





iv) Now go to the app.js file in the project directory and paste the URL in line 11. Enclose it in double quotes as well. In the URL you can see <password>, simply type your mongoDB atlas account password here.

```
const mongoose = require("mongoose");
const formidable = require('express-formidable');
const app = express();
const actorRoutes = require('./api/routes/actors');
const movieRoutes = require('./api/routes/movies');
const userRoutes = require('./api/routes/users');

mongoose.connect();
app.use(morgan('dev'));
app.use(bodyParser.urlencoded({extended: false}));
//app.use(formidable());
```

v) After following the above steps run the following command in the command prompt and your program should run

Command: npm start

Installing Postman

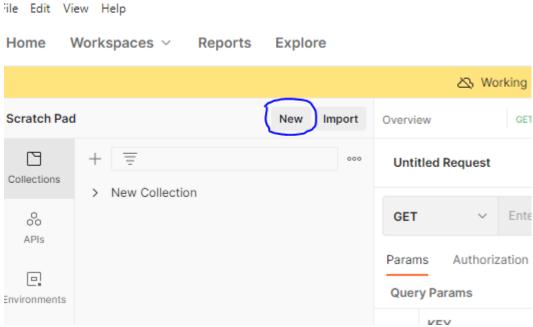
Now, we are going to check and test our routes. We would need to install Postman for this.

i) Go to the following link and download Postman.

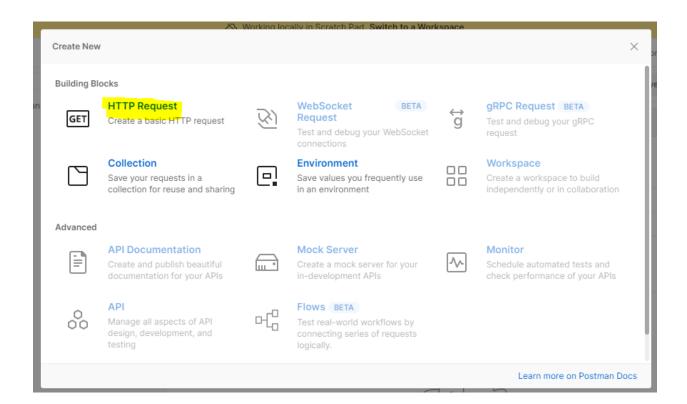
https://www.postman.com/

- ii) After this, run the installer and install it.
- iii) After this is done, start the Postman.
- iv) Select New in the top left column

Postman



v) Select HTTP request.

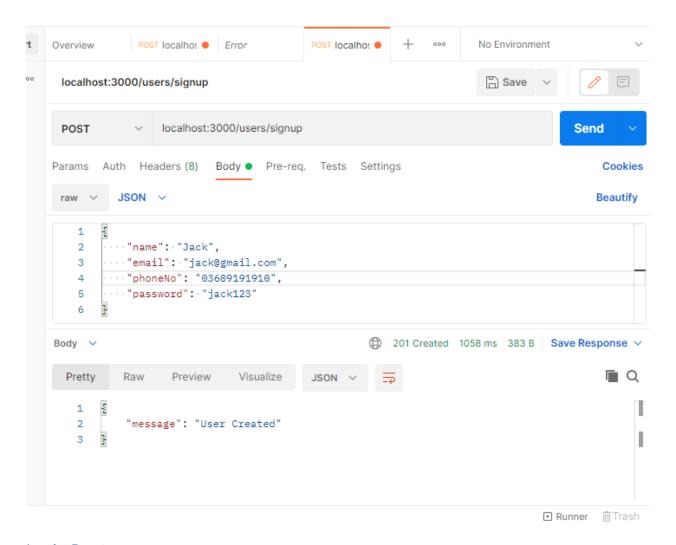


Signup Route

Now, go to the following URL and sign up a new user.

Localhost:3000/users/signup

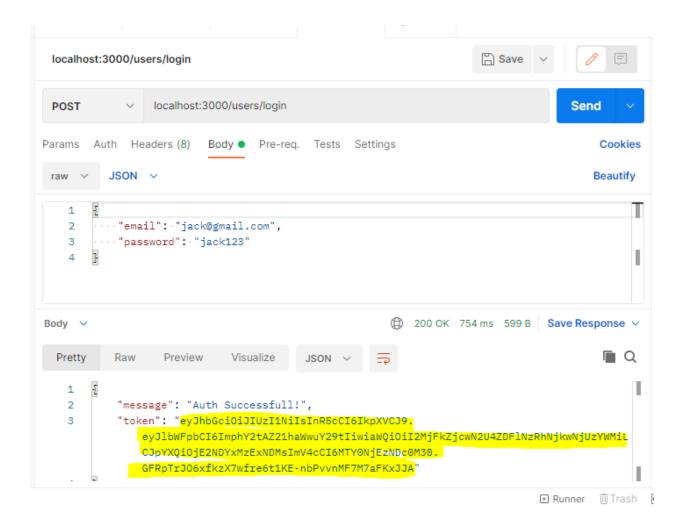
Refer to the following picture for the data.



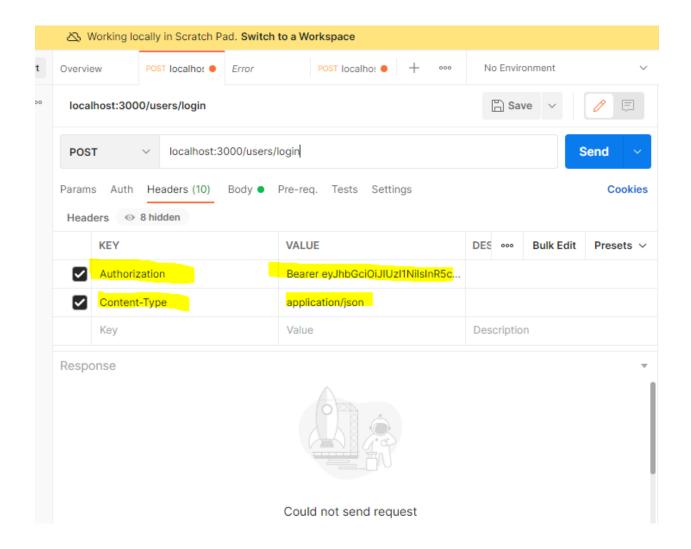
Login Route

Now, go the following route and enter the login data.

Localhost:3000/users/login



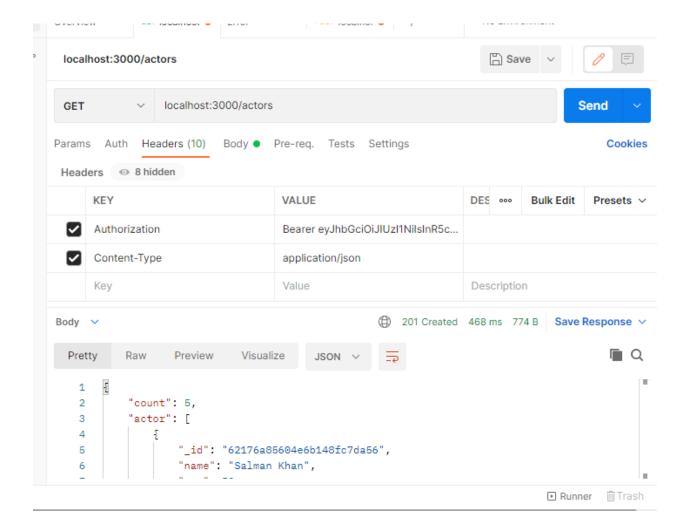
After, we logged in a token is generated. We need to pass this token to header so that we can authorize the user. Simply copy the token and then go to the header tab and create a key named Authorization. In the value field, type Bearer and after a single space paste the token here.



Create another key named Content-Type and enter the text "application/json" in the value field.

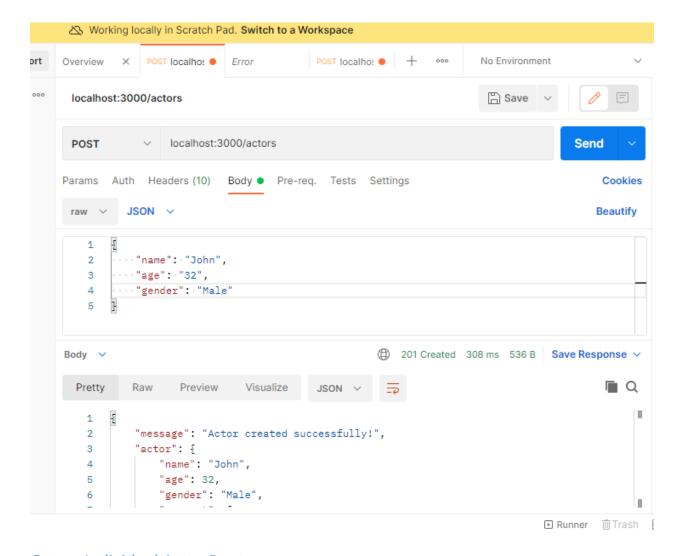
Get All Actor Route

Now we can check and test different routes for actor and movie schema. Following route will give us all the actors.



Post A New Actor Route

In the following route, we can add new actor to the database.

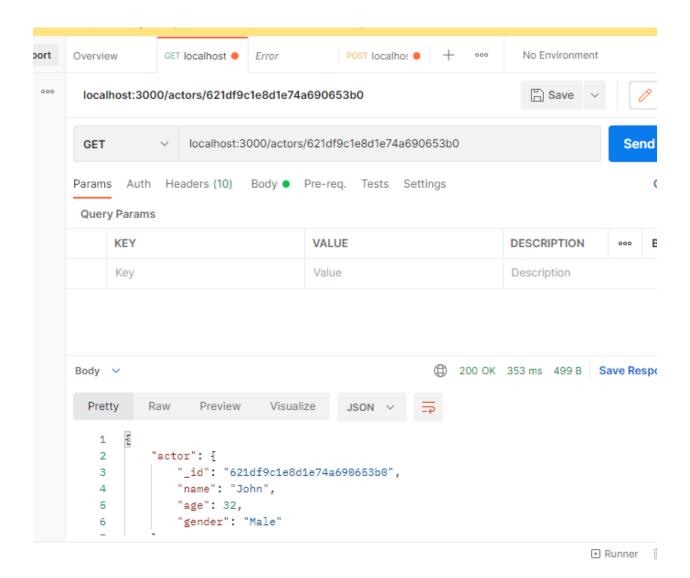


Get an Individual Actor Route

In the following route, we can get an individual actor by giving and id of the actor. We can get id of the actor by executing the following route.

Route type: get

Route URL: localhost:3000/actors

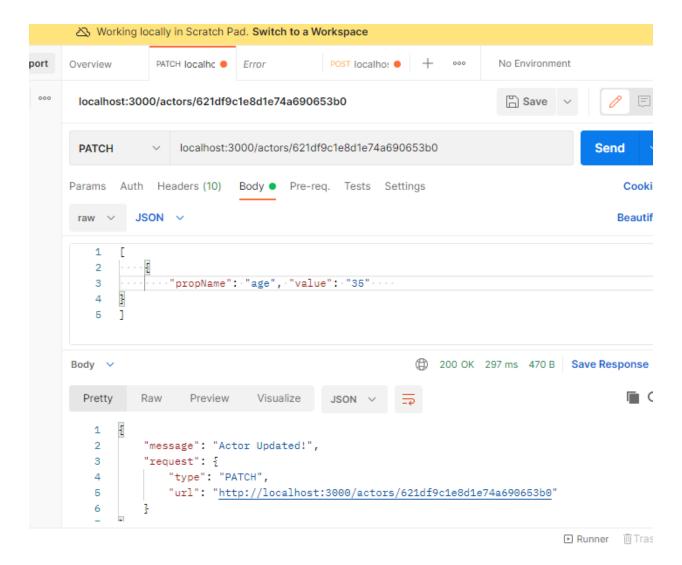


Patch/Update an Actor Route

In the following route we can update an actor by giving an id of the actor. We can get id of the actor by executing the following route.

Route type: get

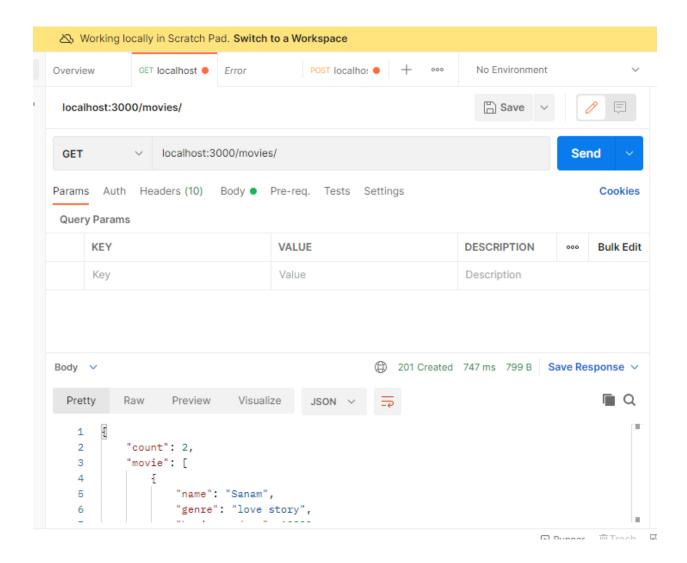
Route URL: localhost:3000/actors



In the propName, we need to provide the name of the column which we want to update and in the value column we need to provide the new value.

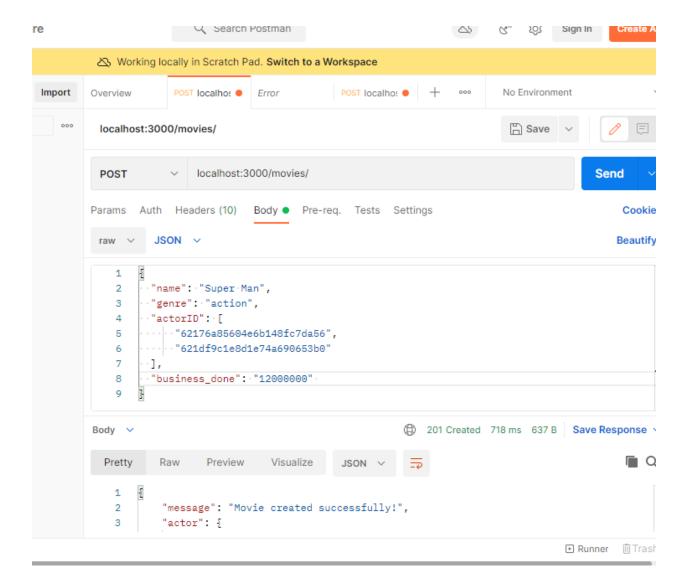
Get All Movies Route

Now, we are going to test the movie route. We can get all the movies by giving the following route.



Post a New Movie Route

We can add a new movie by providing the data given in the picture below. In the ActorID column, we need to give the ids of the actors that are already registered with us otherwise this will give an error.

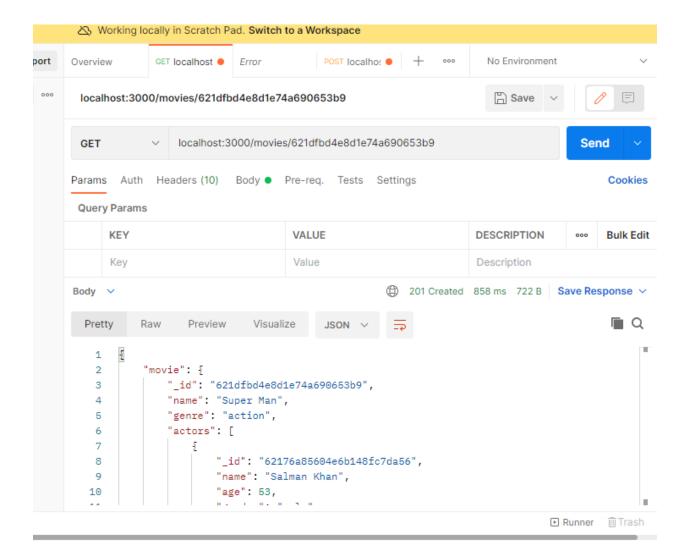


Get an Individual Movie Route

We can get an individual movie by passing its id to the following route. We can get id of the movie by getting all the movies.

Route type: get

Route URL: localhost:3000/movies



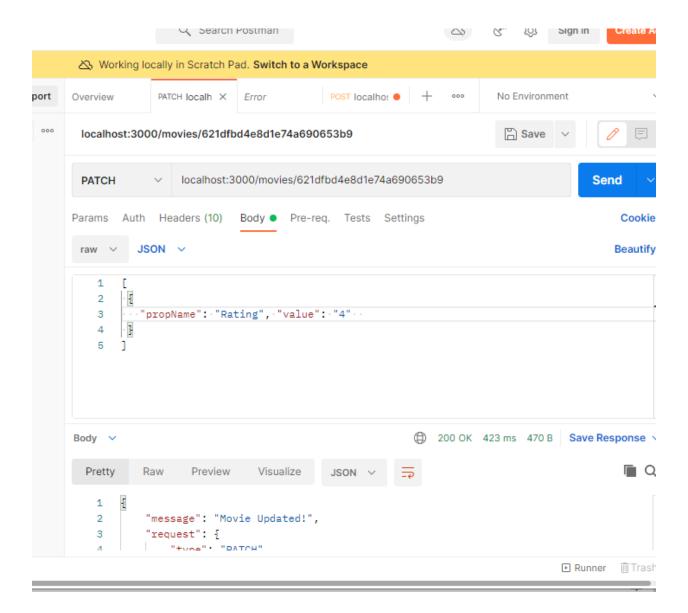
Patch/Update a Movie Route

We can update a movie by giving its id to the route. We can give multiple reviews to a movie. Also the Rating should be from 1 to 5.

We can get id of the movie by executing the following route.

Route type: get

Route URL: localhost:3000/movies



Delete a Movie Route

At the last we can delete a movie by providing an id to the following route. We can get id of the movie by executing the following route.

Route type: get

Route URL: localhost:3000/movies

