**JS codes**

***Page web dynamique***

Index.js

/\* eslint-disable no-use-before-define \*/

import 'bootstrap/dist/css/bootstrap.min.css';

import './stylesheets/main.css';

const questions = [];

const questionsAsked = [];

const renderTrainingPage = () => {

    const main = document.querySelector('main');

    main.innerHTML = ``;

    const form = document.createElement('form');

    const labelQuestion = document.createElement('label');

    labelQuestion.textContent = 'Question';

    const inputQuestion = document.createElement('input');

    inputQuestion.type = 'text';

    inputQuestion.id = 'question';

    inputQuestion.setAttribute('required', true);

    const labelReponse = document.createElement('label');

    labelReponse.textContent = 'Reponse';

    const inputReponse = document.createElement('input');

    inputQuestion.type = 'text';

    inputReponse.id = 'reponse'

    inputReponse.setAttribute('required', true);

    const submit = document.createElement('button');

    submit.type = 'submit'

    submit.textContent = 'Enregister exemple'

    form.appendChild(labelQuestion);

    form.appendChild(inputQuestion);

    form.appendChild(labelReponse);

    form.appendChild(inputReponse);

    form.appendChild(submit);

    main.appendChild(form);

    const button = document.createElement('button');

    button.textContent = 'Etape suivante';

    button.addEventListener('click', () => {

        renderChatBotPage();

    });

    main.appendChild(button);

    form.addEventListener('submit', (event) => {

        event.preventDefault();

        const question = document.querySelector('#question').value;

        const reponse = document.querySelector('#reponse').value;

        const newQuestion = {

            question,

            reponse

        }

        questions.push(newQuestion);

        form.reset();

    });

}

const renderChatBotPage = () => {

    const main = document.querySelector('main');

    main.innerHTML = ``;

    const form = document.createElement('form');

    const labelQuestion = document.createElement('label');

    labelQuestion.textContent = 'Question';

    const inputQuestion = document.createElement('input');

    inputQuestion.type = 'text';

    inputQuestion.id = 'question';

    inputQuestion.setAttribute('required', true);

    const submit = document.createElement('button');

    submit.type = 'submit';

    submit.textContent = 'Poser la question';

    const button = document.createElement('button');

    button.textContent = 'Etape précédente';

    button.addEventListener('click', () => {

        renderTrainingPage();

    });

    form.appendChild(labelQuestion);

    form.appendChild(inputQuestion);

    form.appendChild(submit);

    main.appendChild(form);

    const div = document.createElement('div');

    main.appendChild(div);

    if (questionsAsked.length !== 0) {

        questionsAsked.forEach((e) => {

            const questionP = document.createElement('p');

            questionP.textContent = `Question: ${e.question}`;

            const reponseP = document.createElement('p');

            reponseP.textContent = `Réponse: ${e.reponse}`

            div.appendChild(questionP);

            div.appendChild(reponseP);

        });

    }

    main.appendChild(button);

    form.addEventListener('submit', (event) => {

        event.preventDefault();

        const question = document.querySelector('#question').value;

        const object = questions.find((e) => e.question === question);

        let reponse = "";

        if (!object) {

            reponse = "Je ne sais pas répondre à cette question";

        } else {

            reponse = object.reponse;

        }

        const questionP = document.createElement('p');

        questionP.textContent = `Question: ${question}`;

        const reponseP = document.createElement('p');

        reponseP.textContent = `Réponse: ${reponse}`

        div.appendChild(questionP);

        div.appendChild(reponseP)

        form.reset();

        questionsAsked.push({ question, reponse});

    });

}

renderTrainingPage();

places.js (utils)

/\* eslint-disable no-restricted-syntax \*/

/\* eslint-disable no-unused-vars \*/

/\* eslint-disable consistent-return \*/

/\* eslint-disable no-unused-expressions \*/

import berlin from '../img/berlin.jpg';

import bruges from '../img/bruges.jpg';

import munich from '../img/munich.jpg';

import paris from '../img/paris.jpg';

import rome from '../img/rome.jpg';

const PHOTOS = [

  {

    id: 1,

    name: 'Berlin',

    image: berlin,

  },

  {

    id: 2,

    name: 'Bruges',

    image: bruges,

  },

  {

    id: 3,

    name: 'Munich',

    image: munich,

  },

  {

    id: 4,

    name: 'Paris',

    image: paris,

  },

  {

    id: 5,

    name: 'Rome',

    image: rome,

  },

];

let place;

const getIdPlace = (id) => {

  let thePlace;

  for (const element of PHOTOS) {

    if (element.id === id)

      thePlace = element;

  }

  return thePlace;

};

const getPlaceWithName = (name) => {

  let result;

  for (const thePlace of PHOTOS) {

    if (thePlace.name === name)

      result = thePlace;

  }

  return result;

};

const getPlace = () => {

  if (place === undefined)

    return;

  return place;

};

const setPlace = (thePlace) => {

  place = thePlace;

};

const isPlace = () => place !== undefined;

const clearPlace = () => {

  place = undefined;

};

export { getPlace, setPlace, isPlace, clearPlace, getPlaceWithName, getIdPlace };

// , getNamePlace, getIdPlace

***RESTful API :***

Models :

/\* eslint-disable no-shadow \*/

/\* eslint-disable import/newline-after-import \*/

/\* eslint-disable no-console \*/

const path = require('node:path');

const { parse, serialize } = require('../utils/json');

const { users, products } = require("../constants");

const jsonDbPath = path.join(\_\_dirname, '/../data/historique.json');

const defaultHistorique = [];

function readAllUsers() {

  return users;

}

function readAllProducts() {

  return products;

}

function readBetterProduct(id) {

  const idAsNumber = parseInt(id, 10);

  let purchases = parse(jsonDbPath, defaultHistorique);

  purchases = purchases.filter((e) => e.idProduct === idAsNumber);

 // console.log("eeeeeeeeeeeeeeeeeeeeeeeeee", purchases);

  if (purchases.length === 0) return false;

  let max = 0;

  purchases?.forEach((e) => {

      if (e.quantity > max) {

          max = e.quantity;

         // console.log("eeeeeeeeeeeeeeeeeeeeeeeeee", e.quantity);

         // console.log("djddddddddddddddddddddddd", max);

      }

  });

 // console.log("eeeeeeeeeeeeeeeeeeeeeeeeee", max);

  const userFound = purchases.find((e) => e.quantity === max);

  return userFound.pseudo;

}

function registerOnePurchase(pseudo, idProduct, quantity) {

  const historique = parse(jsonDbPath, defaultHistorique);

  const newHistorique = {

    pseudo,

    idProduct,

    quantity,

  };

  historique.push(newHistorique);

  // console.log("lleleezzzzrffffffffffff", pseudo, idProduct, quantity);

  serialize(jsonDbPath, historique);

  return newHistorique;

}

function readRecommendationUser(username){

  const allUsers = readAllUsers();

  const userFound = allUsers.find((user) => user === username);

  if (!userFound) return undefined;

  const products = readAllProducts();

  const productRandom = products[Math.floor(Math.random() \* products.length)];

  // const productRandom = Math.floor(Math.random() \* (products.length - 1)) + 1;

  // return products[productRandom];

  return productRandom;

}

module.exports = {

  readBetterProduct,

  registerOnePurchase,

  readAllProducts,

  readAllUsers,

  readRecommendationUser,

};

Routes :

Purchases :

/\* eslint-disable no-console \*/

/\* eslint-disable import/newline-after-import \*/

/\* eslint-disable no-unused-vars \*/

const express = require('express');

const router = express.Router();

const { registerOnePurchase, readAllUsers, readAllProducts, readBetterProduct } = require("../models/historique");

// Read the pizza identified by an id in the menu

router.get('/:productId', (req, res) => {

    const idInRequest = parseInt(req?.params?.productId, 10);

    const userPseudo = readBetterProduct(idInRequest);

    return res.json(userPseudo);

});

// Create a pizza to be added to the menu.

router.post('/', (req, res) => {

    const pseudo = req?.body?.pseudo;

    const idProduct = req?.body?.idProduct;

    const quantity = req?.body?.quantity;

    const users = readAllUsers();

    if (!users.find((e) => e === pseudo)) return res.status(404).json({ message: "Utilisateur non trouvé" });

    const products = readAllProducts();

    if (!products.find((e) => e.id === idProduct)) return res.sendStatus(400);

    // console.log("lleleezzzzrffffffffffff", pseudo, idProduct, quantity);

    if (!pseudo || !idProduct || !quantity) return res.sendStatus(400); // error code '400 Bad request'

    const newPurchase = registerOnePurchase(pseudo, idProduct, quantity);

    return res.json(newPurchase);

});

module.exports = router;

Recommendations:

/\* eslint-disable no-console \*/

/\* eslint-disable import/newline-after-import \*/

/\* eslint-disable no-unused-vars \*/

const express = require('express');

const router = express.Router();

const { readRecommendationUser, readAllProducts, readAllUsers } = require("../models/historique");

router.get('/', (req, res) => {

    const allProducts = readAllProducts();

    return res.json(allProducts);

});

// Read the pizza identified by an id in the menu

router.get('/:username', (req, res) => {

    const userPseudo = req?.params?.username;

    const allUsers = readAllUsers();

    const userFound = allUsers.find((user) => user === userPseudo);

    if (!userFound) return res.sendStatus(400);

    console.log("qddddddddddddddddddddddddd", userPseudo);

    const randomProduct = readRecommendationUser(userPseudo);

    return res.json(randomProduct);

});

module.exports = router;

***Single Page Application***

Exam Aout 2023 Fetch :

/\* eslint-disable quotes \*/

/\* eslint-disable eol-last \*/

import { clearPage } from '../../utils/render';

const HomePage = () => {

  clearPage();

  renderHomePagePlaces();

  renderHomePageRecommondedPlace();

};

async function renderHomePagePlaces() {

  const response = await fetch('https://places-exam-api.azurewebsites.net/places');

  if (!response.ok) throw new Error(`fetch error : ${response.status} : ${response.statusText}`);

  const places = await response.json();

  const main = document.querySelector('main');

  const h1 = document.createElement('h1');

  h1.innerText = `Tous les lieux`;

  main.appendChild(h1);

  places.forEach((place) => {

    const div = document.createElement('div');

    div.innerHTML = `<div> ${place.name} </div>`;

    main.appendChild(div);

  });

}

async function renderHomePageRecommondedPlace() {

  const response = await fetch('https://places-exam-api.azurewebsites.net/recommended');

  if (!response.ok) throw new Error(`fetch error : ${response.status} : ${response.statusText}`);

  const place = await response.json();

  const main = document.querySelector('main');

  const h1 = document.createElement('h1');

  h1.innerText = `Lieu recommendé`;

  main.appendChild(h1);

  const div = document.createElement('div');

  div.innerHTML = `<div> ${place.name} </div>`;

  main.appendChild(div);

}

export default HomePage;

Une image contenant texte, capture d’écran, Police, ligne

Description générée automatiquement

Exam Janvier 2023 :

Une image contenant texte, capture d’écran, Police, ligne

Description générée automatiquement

POST :

/\* eslint-disable prefer-template \*/

/\* eslint-disable no-console \*/

import { clearPage } from '../../utils/render';

const TrainingPage = () => {

    clearPage();

    renderTrainingPage();

};

async function renderTrainingPage() {

  const main = document.querySelector("main");

    const div = document.createElement('div');

    div.innerHTML = `<form>

  <div class="mb-3">

    <label for="exampleInputEmail1" class="form-label">Français</label>

    <input type="text" class="form-control" id="idFr" aria-describedby="emailHelp">

  </div>

  <div class="mb-3">

    <label for="exampleInputEmail1" class="form-label">English</label>

    <input type="text" class="form-control" id="idEn" aria-describedby="emailHelp">

  </div>

  <br>

`;

// const btnRegister = document.querySelector("#btnRegister");

const btnRegister = document.createElement("button");

btnRegister.type = "submit";

btnRegister.className = "btn btn-primary";

btnRegister.textContent = "Ajouter la traduction";

btnRegister.addEventListener('click', async (event) => {

    event.preventDefault();

    const francais = document.querySelector("#idFr").value;

    const english = document.querySelector("#idEn").value;

    const options = {

        method: 'POST',

        body: JSON.stringify({

            fr: francais,

            en: english

        }),

        headers: {

            'Content-Type': 'application/json',

        },

    };

    const response = await fetch('/api/trad', options);

    if (!response.ok) throw new Error(`fetch error : ${response.status} : ${response.statusText}`);

    const createdTraduction = await response.json();

    console.log("dddddddddddd"+createdTraduction);

});

    main.appendChild(div);

    main.appendChild(btnRegister);

}

export default TrainingPage;

GET :

import { clearPage } from '../../utils/render';

const TraductionPage = () => {

  clearPage();

  renderTraductionPage();

};

async function renderTraductionPage() {

    const main = document.querySelector("main");

    const div = document.createElement('div');

    const div2 = document.createElement('div');

    const divTradEn = document.createElement("div");

    const divTradFr = document.createElement("div");

    div.innerHTML = `<form>

  <div class="mb-3">

    <label for="exampleInputEmail1" class="form-label">Français</label>

    <input type="text" class="form-control" id="idFr" aria-describedby="emailHelp">

  </div>

  <br>

`;

// const btnRegister = document.querySelector("#btnRegister");

const btnTraduire = document.createElement("button");

btnTraduire.type = "submit";

btnTraduire.className = "btn btn-primary";

btnTraduire.textContent = "Traduire";

div2.innerHTML = ` <div class="mb-3">

<label for="exampleInputEmail1" class="form-label">English</label>

<input type="text" class="form-control" id="idEn" aria-describedby="emailHelp">

</div>

<br>`;

const btnTranslate = document.createElement("button");

btnTranslate.type = "submit";

btnTranslate.className = "btn btn-primary";

btnTranslate.textContent = "Translate";

const p = document.createElement("p");

btnTraduire.addEventListener('click', async (event) => {

    event.preventDefault();

    const francais = document.querySelector("#idFr").value;

    const requete = await fetch(`/api/trad/fr?query=${francais}`, {

        method: 'GET'

    });

    if (!requete.ok) throw new Error(`fetch error : ${requete.status} : ${requete.statusText}`);

    if (requete.status !== 200) {

        p.innerHTML = `<p>Traduction anglaise: </p><p style="color: red;">Impossible d'obtenir la traduction</p>`;

    } else {

        const response = await requete.json();

        p.textContent = `Traduction anglaise: ${response.en}`;

    }

    divTradEn.appendChild(p);

});

btnTranslate.addEventListener('click', async (event) => {

    event.preventDefault();

    const english = document.querySelector("#idEn").value;

    const requete = await fetch(`/api/trad/en?query=${english}`, {

        method: 'GET'

    });

    if (!requete.ok) throw new Error(`fetch error : ${requete.status} : ${requete.statusText}`);

    if (requete.status !== 200) {

        p.innerHTML = `<p>Traduction français: </p><p style="color: red;">Impossible d'obtenir la traduction</p>`;

    } else {

        const response = await requete.json();

        p.textContent = `Traduction français: ${response.fr}`;

    }

    divTradFr.appendChild(p);

});

    main.appendChild(div);

    main.appendChild(btnTraduire);

    main.appendChild(divTradEn);

    main.appendChild(div2);

    main.appendChild(divTradFr);

    main.appendChild(btnTranslate);

}

export default TraductionPage;

***TIPS :***

Streams :

Find

function readBetterProduct(id) {

  const idAsNumber = parseInt(id, 10);

  let purchases = parse(jsonDbPath, defaultHistorique);

  purchases = purchases.filter((e) => e.idProduct === idAsNumber);

 // console.log("eeeeeeeeeeeeeeeeeeeeeeeeee", purchases);

  if (purchases.length === 0) return false;

  let max = 0;

  purchases?.forEach((e) => {

      if (e.quantity > max) {

          max = e.quantity;

         // console.log("eeeeeeeeeeeeeeeeeeeeeeeeee", e.quantity);

         // console.log("djddddddddddddddddddddddd", max);

      }

  });

 // console.log("eeeeeeeeeeeeeeeeeeeeeeeeee", max); find

**const userFound = purchases.find((e) => e.quantity === max);**

  return userFound.pseudo;

}

const userFound = allUsers.find((user) => user === username);

Filter

purchases = purchases.filter((e) => e.idProduct === idAsNumber);

Sort and Reverse

router.get('/', (req, res) => {

  const orderByTitle = req?.query?.order?.includes('title')

    ? req.query.order

    : undefined;

  let orderedMenu;

  const pizzas = parse(jsonDbPath, MENU);

  if (orderByTitle) orderedMenu = [...pizzas].sort((a, b) => a.title.localeCompare(b.title));

  if (orderByTitle === '-title') orderedMenu = orderedMenu.reverse();

  return res.json(orderedMenu ?? pizzas);

});

Reduce

const array1 = [1, 2, 3, 4];

// 0 + 1 + 2 + 3 + 4

const initialValue = 0;

const sumWithInitial = array1.reduce((accumulator, currentValue) => accumulator + currentValue, initialValue);

console.log(sumWithInitial);

// Expected output: 10

REST HTTP

Pizza

######### NORMAL OPERATION  ###########

### Read all pizzas

GET http://localhost:3000/pizzas

### Read all pizzas with File variable

@baseUrl = http://localhost:3000

GET {{baseUrl}}/pizzas

### Read all pizzas sorted by title (ascending)

GET {{baseUrl}}/pizzas/?order=+title

### Read all pizzas sorted by title (descending)

GET {{baseUrl}}/pizzas/?order=-title

### Read pizza identified by 2

GET {{baseUrl}}/pizzas/2

### Create a pizza

POST {{baseUrl}}/pizzas

Content-Type: application/json

{

    "title":"Magic Green",

    "content":"Epinards, Brocolis, Olives vertes, Basilic"

}

### Delete pizza identified by 2

DELETE {{baseUrl}}/pizzas/2

### Update the pizza identified by 6

PATCH {{baseUrl}}/pizzas/6

Content-Type: application/json

{

    "title":"Magic Green 2"

}

######### ERROR OPERATION  ###########

### Read pizza which does not exists

GET {{baseUrl}}/pizzas/100

### Create a pizza which lacks a property

POST {{baseUrl}}/pizzas

Content-Type: application/json

{

    "content":"Epinards, Brocolis, Olives vertes, Basilic"

}

### Create a pizza without info for a property

POST {{baseUrl}}/pizzas

Content-Type: application/json

{

    "title":"",

    "content":"Epinards, Brocolis, Olives vertes, Basilic"

}

### Update for a pizza which does not exist

PUT {{baseUrl}}/pizzas/200

Content-Type: application/json

{

    "title":"Magic Green 2"

}

### Update for a pizza which does not provide any info for a property

PUT {{baseUrl}}/pizzas/1

Content-Type: application/json

{

    "title":"Magic Green 2",

    "content":""

}

Films

@baseUrl = http://localhost:3000

### Read all films

GET {{baseUrl}}/films

### Try to create a film without a token

POST {{baseUrl}}/films/

Content-Type: application/json

{

    "title":"Star Wars: The Phantom Menace (Episode I)",

    "duration": 136,

    "budget": 115,

    "link":"https://en.wikipedia.org/wiki/Star\_Wars:\_Episode\_I\_%E2%80%93\_The\_Phantom\_Menace"

}

### Create a film with guest token

#### Login the guest user and get the response in a request variable named 'guest'

# @name guest

POST {{baseUrl}}/auths/login

Content-Type: application/json

{

    "username":"guest",

    "password":"guest"

}

#### Create a pizza

POST {{baseUrl}}/films/

Content-Type: application/json

Authorization: {{guest.response.body.token}}

{

    "title":"Star Wars: The Phantom Menace (Episode I)",

    "duration": 136,

    "budget": 115,

    "link":"https://en.wikipedia.org/wiki/Star\_Wars:\_Episode\_I\_%E2%80%93\_The\_Phantom\_Menace"

}

### Try to create a film with a parameter missing or empty string or string with whitespaces only

POST {{baseUrl}}/films/

Content-Type: application/json

Authorization: {{guest.response.body.token}}

{

    "title":" ",

    "duration": 136,

    "budget": 115,

    "link":"https://en.wikipedia.org/wiki/Star\_Wars:\_Episode\_I\_%E2%80%93\_The\_Phantom\_Menace"

}

### Try to create a film with a wrong budget

POST {{baseUrl}}/films/

Content-Type: application/json

Authorization: {{guest.response.body.token}}

{

    "title":"Star Wars: The Phantom Menace (Episode I)",

    "duration": 136,

    "budget": "115",

    "link":"https://en.wikipedia.org/wiki/Star\_Wars:\_Episode\_I\_%E2%80%93\_The\_Phantom\_Menace"

}

### Create another film

POST {{baseUrl}}/films/

Content-Type: application/json

Authorization: {{guest.response.body.token}}

{

    "title":"Star Wars: Episode 2",

    "duration": 1,

    "budget": 11,

    "link":"findIt.com"

}

### Read film with ID == 1

GET {{baseUrl}}/films/1

### Update film with ID == 2

PATCH {{baseUrl}}/films/2

Content-Type: application/json

Authorization: {{guest.response.body.token}}

{

    "title":"Star Wars: Episode II – Attack of the Clones",

    "duration": 142,

    "budget": 115,

    "link":"https://en.wikipedia.org/wiki/Star\_Wars:\_Episode\_II\_%E2%80%93\_Attack\_of\_the\_Clones"

}

### Delete the film with ID == 2

DELETE {{baseUrl}}/films/2

Authorization: {{guest.response.body.token}}

### Read all films with minimum duration of 140 minutes

GET {{baseUrl}}/films?minimum-duration=140

### Create a long film

POST {{baseUrl}}/films/

Content-Type: application/json

Authorization: {{guest.response.body.token}}

{

    "title":"Zack Snyder's Justice League",

    "duration": 242,

    "budget": 70,

    "link":"https://en.wikipedia.org/wiki/Zack\_Snyder%27s\_Justice\_League"

}

Models :

const path = require('node:path');

const { parse, serialize } = require('../utils/json');

const jsonDbPath = path.join(\_\_dirname, '/../data/films.json');

function readAllFilms(minimumDuration) {

  const films = parse(jsonDbPath);

  if (minimumDuration === undefined) return films;

  const minimumDurationAsNumber = parseInt(minimumDuration, 10);

  if (Number.isNaN(minimumDurationAsNumber) || minimumDurationAsNumber < 0) return undefined;

  const filmsReachingMinimumDuration = films.filter((film) => film.duration >= minimumDuration);

  return filmsReachingMinimumDuration;

}

function readOneFilm(id) {

  const idAsNumber = parseInt(id, 10);

  const films = parse(jsonDbPath);

  const indexOfFilmFound = films.findIndex((pizza) => pizza.id === idAsNumber);

  if (indexOfFilmFound < 0) return undefined;

  return films[indexOfFilmFound];

}

function createOneFilm(title, link, duration, budget) {

  const films = parse(jsonDbPath);

  const createdPizza = {

    id: getNextId(),

    title,

    link,

    duration,

    budget,

  };

  films.push(createdPizza);

  serialize(jsonDbPath, films);

  return createdPizza;

}

function getNextId() {

  const films = parse(jsonDbPath);

  const lastItemIndex = films?.length !== 0 ? films.length - 1 : undefined;

  if (lastItemIndex === undefined) return 1;

  const lastId = films[lastItemIndex]?.id;

  const nextId = lastId + 1;

  return nextId;

}

function deleteOneFilm(id) {

  const idAsNumber = parseInt(id, 10);

  const films = parse(jsonDbPath);

  const foundIndex = films.findIndex((pizza) => pizza.id === idAsNumber);

  if (foundIndex < 0) return undefined;

  const deletedFilms = films.splice(foundIndex, 1);

  const deletedFilm = deletedFilms[0];

  serialize(jsonDbPath, films);

  return deletedFilm;

}

function updateOneFilm(id, propertiesToUpdate) {

  const idAsNumber = parseInt(id, 10);

  const films = parse(jsonDbPath);

  const foundIndex = films.findIndex((pizza) => pizza.id === idAsNumber);

  if (foundIndex < 0) return undefined;

  const updatedPizza = { ...films[foundIndex], ...propertiesToUpdate };

  films[foundIndex] = updatedPizza;

  serialize(jsonDbPath, films);

  return updatedPizza;

}

module.exports = {

  readAllFilms,

  readOneFilm,

  createOneFilm,

  deleteOneFilm,

  updateOneFilm,

};

Routes :

const express = require('express');

const {

  readAllFilms,

  readOneFilm,

  createOneFilm,

  deleteOneFilm,

  updateOneFilm,

} = require('../models/films');

const { authorize } = require('../utils/auths');

const router = express.Router();

// Read all the films, filtered by minimum-duration if the query param exists

router.get('/', (req, res) => {

  const filmsPotentiallyFiltered = readAllFilms(req?.query?.['minimum-duration']);

  if (filmsPotentiallyFiltered === undefined) return res.sendStatus(400);

  return res.json(filmsPotentiallyFiltered);

});

// Read a film from its id in the menu

router.get('/:id', (req, res) => {

  const foundFilm = readOneFilm(req?.params?.id);

  if (!foundFilm) return res.sendStatus(404);

  return res.json(foundFilm);

});

// Create a film

router.post('/', authorize, (req, res) => {

  const title = req?.body?.title?.trim()?.length !== 0 ? req.body.title : undefined;

  const link = req?.body?.content?.trim().length !== 0 ? req.body.link : undefined;

  const duration =

    typeof req?.body?.duration !== 'number' || req.body.duration < 0

      ? undefined

      : req.body.duration;

  const budget =

    typeof req?.body?.budget !== 'number' || req.body.budget < 0 ? undefined : req.body.budget;

  if (!title || !link || !duration || !budget) return res.sendStatus(400);

  const createdFilm = createOneFilm(title, link, duration, budget);

  return res.json(createdFilm);

});

// Delete a film

router.delete('/:id', authorize, (req, res) => {

  const deletedFilm = deleteOneFilm(req?.params?.id);

  if (!deletedFilm) return res.sendStatus(404);

  return res.json(deletedFilm);

});

// Update a film identified by its id

router.patch('/:id', authorize, (req, res) => {

  const title = req?.body?.title;

  const link = req?.body?.link;

  const duration = req?.body?.duration;

  const budget = req?.body?.budget;

  if (

    !req.body ||

    (title && !title.trim()) ||

    (link && !link.trim()) ||

    (duration && (typeof req?.body?.duration !== 'number' || duration < 0)) ||

    (budget && (typeof req?.body?.budget !== 'number' || budget < 0))

  )

    return res.sendStatus(400);

  const updatedFilm = updateOneFilm(req?.params?.id, req?.body);

  if (!updatedFilm) return res.sendStatus(404);

  return res.json(updatedFilm);

});

module.exports = router;

GET **films?minimum-duration=value**

Jokes.js (utils)

const jokes = [

  {

    "id": 1,

    "question": "Why are modern programming languages so materialistic?",

    "answer": "Because they are object-oriented.",

    "category": "Programming"

  }

  ,

  {"id": 2,

    "question": "What's the object-oriented way to become wealthy?",

    "answer": "Inheritance.",

    "category": "Programming"

  }

  ,

  {

    "id": 3,

    "question": "What did the fish say when it swam into the wall?",

    "answer": "Dam.",

    "category": "Pun"

  }

  ,

  {

    "id": 4,

    "question": "How much did your chimney cost?",

    "answer": "Nothing, it was on the house.",

    "category": "Pun"

  }

  ,

  {

    "id": 5,

    "question": "Who is Santa's favourite singer?",

    "answer": "Elf-is Presley!",

    "category": "Christmas"

  }

  ,

  {

    "id": 6,

    "question": "What's Santa's favourite type of music?",

    "answer": "Wrap!",

    "category": "Christmas"

  }

]

let joke;

const allJokes = () => {

  return jokes;

};

const getJoke = () => {

  if (joke === undefined)

    return;

  return joke;

};

function getJokeWithCategory(category)  {

  const theAllJokes = allJokes();

  // theAllJokes.sort((e) => e.category === category);

  let jokeSorted = [];

  for (let i = 0; i < theAllJokes.length; i++) {

    if(theAllJokes[i].category === category){

      jokeSorted[i] = theAllJokes[i];

    }

  }

 // console.log("mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm"+ theAllJokes);

  return jokeSorted;

};

const setJoke = (theJoke) => {

  joke = theJoke;

};

const isJoke = () => joke !== undefined;

const clearJoke = () => {

  joke = undefined;

};

export { allJokes, getJoke, setJoke, isJoke, clearJoke, getJokeWithCategory };