

# Rapport de mon application web

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## Titre:

Application de gestion d'une bibliothèque et de réservation de livre

## Plan :

- 1- Pourquoi cette application
- 2- Problématique
- 3- Le but de réalisation
- 4- Les technologie utiliser
- 5- Les différent type de service
- 6- Le fonctionnement du service

## Introduction

### Contexte

L'application réaliser est une application web de gestion de bibliothèque à distance

### La problématique

Cette application répond a plusieurs besoin parmi elle :

- Le problème de gestion des bibliothèques par apport à chaque centre
- le problème de gestion de la disponibilité des livres
- la gestion de la Bibliothèque pour les employées
- consulter les Livres et de les réserver

## **contribution :**

cette application consiste à simplifier le travail des bibliothécaires , et aussi à permettre au étudiant d'avoir un meilleur aperçu sur le contenu de la bibliothèque

## **Composition :**

Cette application serait composer on 3 chapitre séparer :

### **-la sécurité**

- l'authentification
- l'autorisation
- l'attribution des rôles

### **-la partie administrative de l'application**

- gestion des catégories
- gestion des livres
- gestions des utilisateurs
- gestions des consommateur
- gestions des bibliothèques
- gestions de réservations
- attribution des rôles
- aperçus statistique sur l'état de la bibliothèques

### **-le portail accessible par les étudiant**

- aperçu des livres disponible para port à chaque bibliothèque
- la réservation des livres par les étudiant

## Étude théorique :

### État de l'art :

Les différentes solutions disponibles sur le marché ne répondent pas à la problématique de cette application, car les solutions qu'elle présente sont limitées juste à la gestion et au stockage, et ne sont pas évolutives pour les besoins futurs de nos clients.

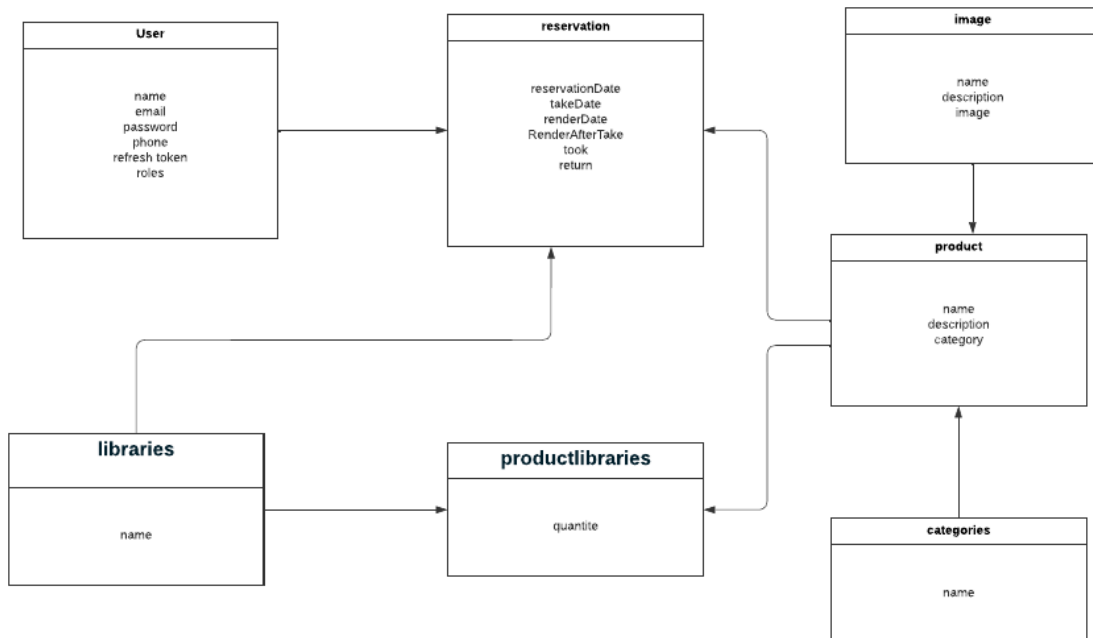
### Étude de l'existant :

L'application utilise de base pour gérer la bibliothèque était Excel ainsi qu'un logiciel installé localement. Les problématiques

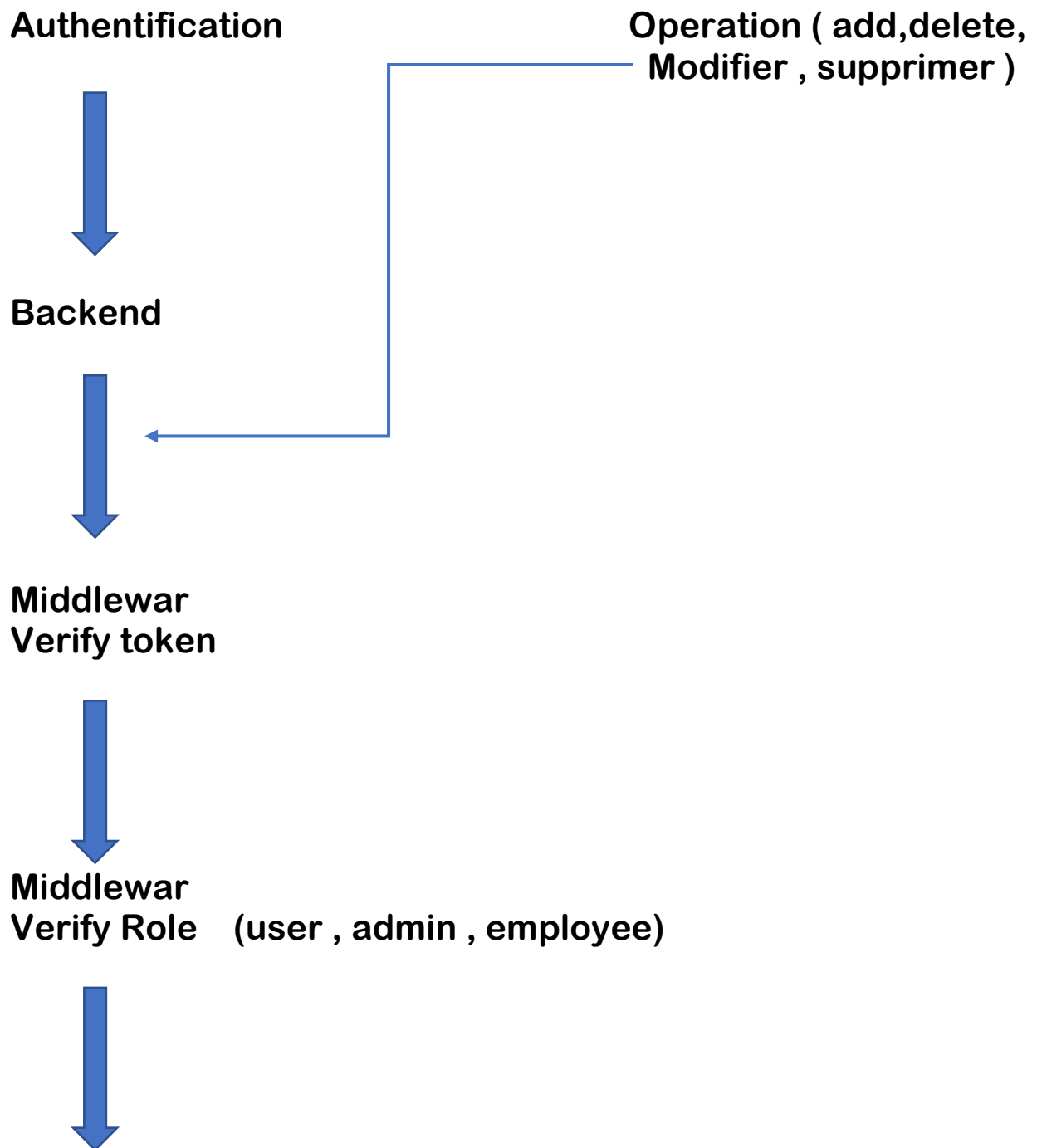
- Excel ne permettait pas de gérer le stockage en temps réel
- le logiciel était installé localement pour chaque centre et n'était pas accessible via Internet

## Conception :

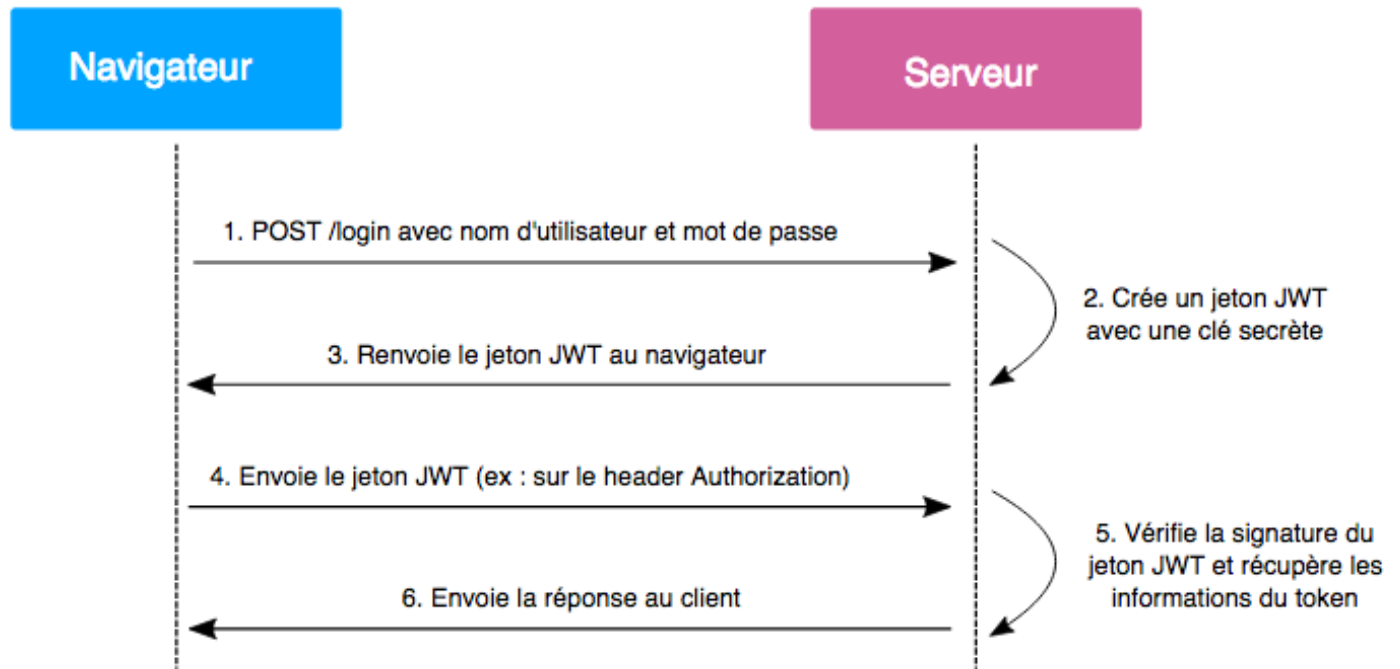
### - Diagramme de class

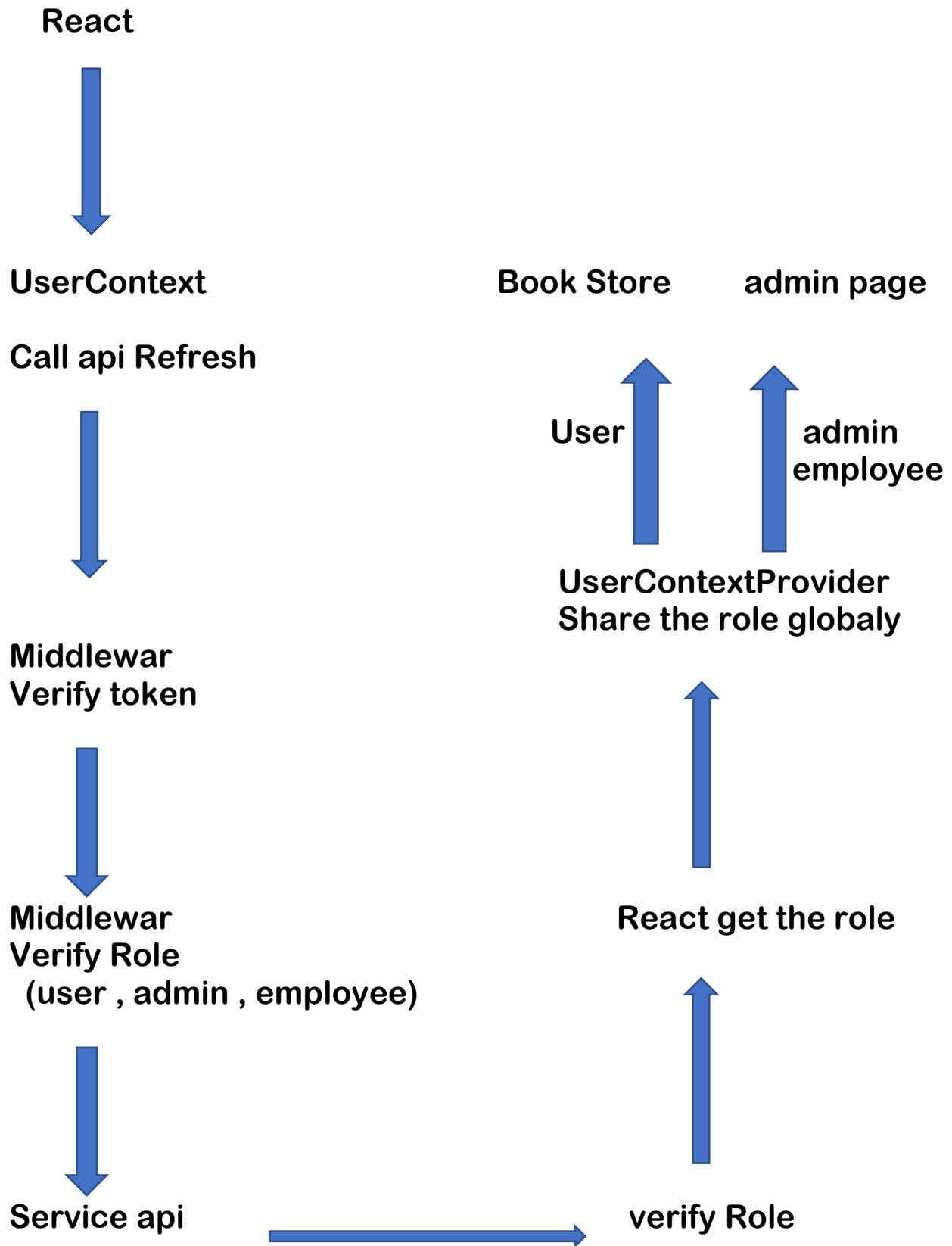


## Schema explicative du fonctionnement de l'application



## Service api





## Réalisation :

### Outils et langage utiliser

**-Les langages utiliser :**

**Language: JavaScript**

**Frotend : React – Bootstrap 5**

**Backend : Node Js – Express Js**

**Base de Donne: Mongo DB Atlas deployer sur Azure Cloud**

### Justification des choix

**JavaScript est le langage de programmation le plus utiliser au monde , c'est un langage non oriente objet et permissive ce qui le rend très simple a utiliser**

**React est la librairie cote front end open source develloper par meta (facebook ), c'est la librairie JavaScript la plus utiliser au monde, ce qui la rend un choix très bon choix pour ce type d'application qui n'est pas très large , vus la simplicité de la prise en main de React .**

**Express js est un framework open source utiliser on backend base sur node js, ce dernier reste un très bon choix pour une application qui n'est pas très large**



## Présentation de L'application

L'application serait présenter sur 3 partie

### **-Partie de gestion de la sécurité :**

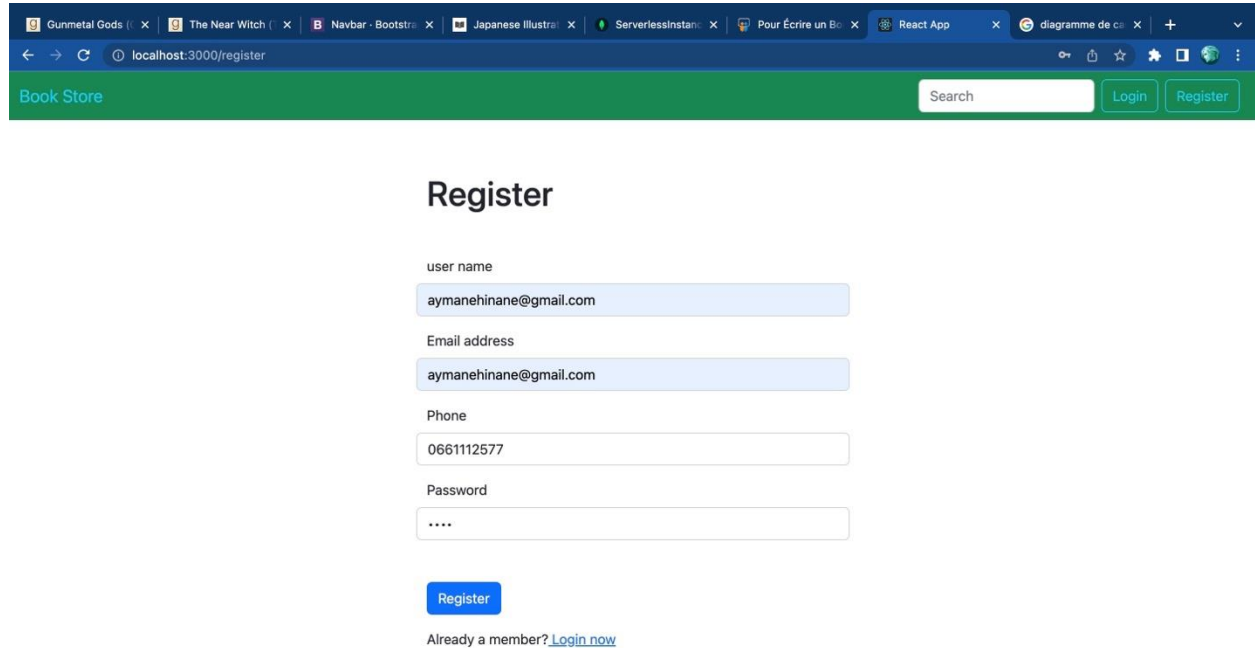
Mon application a 3 utilisateur différent , c'est utilisateur ont un rôle qui leur administre des droit d'accès

#### **-les type de rôle :**

- admin : ne peut accéder qu'a la page admin
- employée : ne peut accéder qu'a la page admin  
Mais il 'est limiter par certains droit
- user : ne peut accéder qu'a la zone étudiant

Lorsque un utilisateur crée un compte, le rôle de base qui lui serait affecter et le rôle user

## Page d'authentification



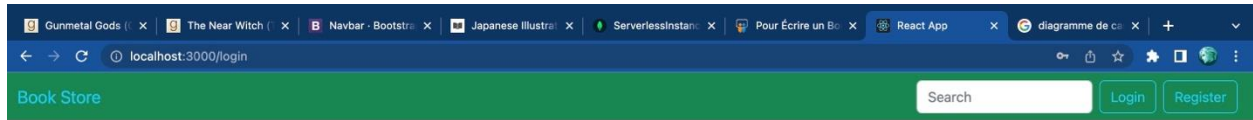
The screenshot shows a web browser window with multiple tabs. The active tab is titled 'React App' and the address bar shows 'localhost:3000/register'. The page has a green header bar with the text 'Book Store' on the left and a search bar and 'Login' and 'Register' buttons on the right. The main content area is titled 'Register' and contains a form with the following fields:

- user name:
- Email address:
- Phone:
- Password:

Below the form is a blue 'Register' button. At the bottom, there is a link: 'Already a member? [Login now](#)'.

**Lorsque un utilisateur crée un compte, le rôle de base qui lui serait affecter et le rôle user**

## Page de connexion



### Login

Email address

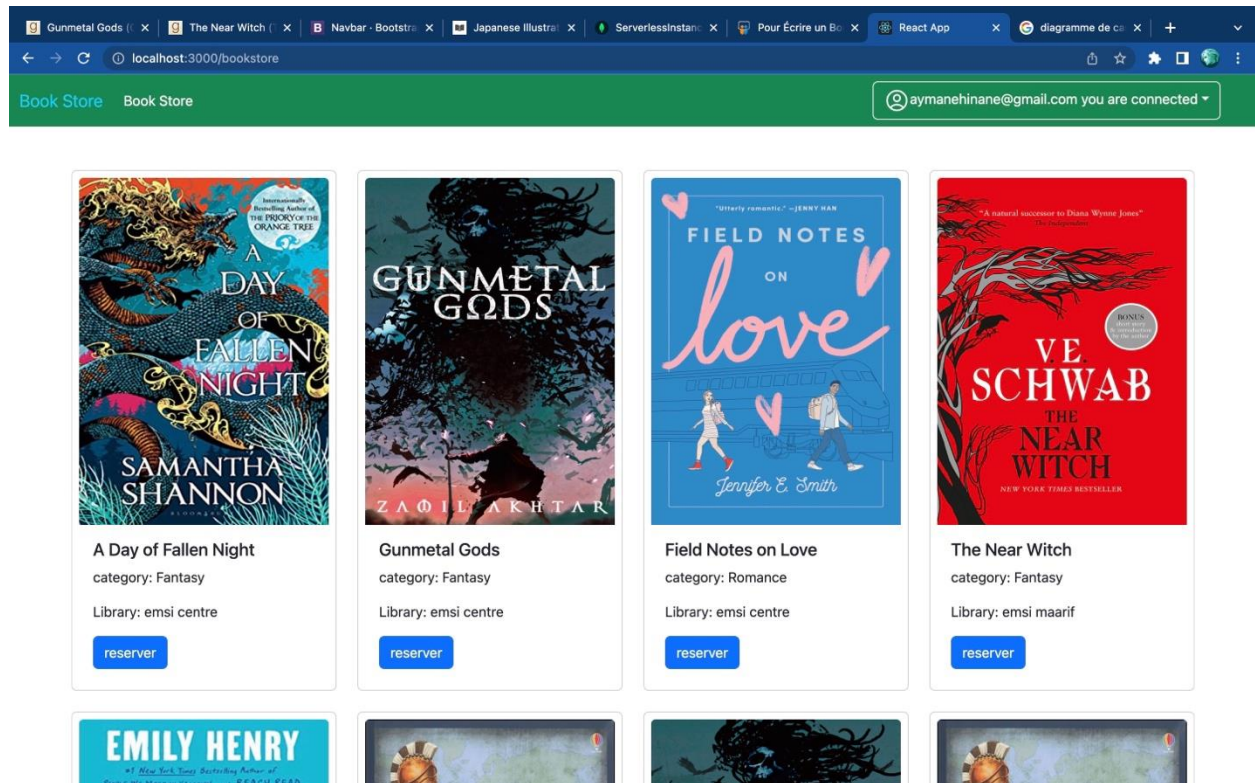
Password

Login

Don't have account yet? [Register now](#)

**Cette page permet au différent utilisateur de se connecter  
Après la connexion , le composant useContext verifierat le  
rôle de l'utilisateur , et on fonction de son rôle soit il serait  
redirigeait vers la page admin soit vers la page Store**

## Portail Etudiant



Cette zone de mon application est réserver au utilisateur  
Elle leur permet de consulter la disponibilité des livres para  
port a chaque centre, et aussi de réserver un livre

## Zone d'administration

Cette zone est réserver au administrateur et au employée  
Elle permet d'admistrer la bibliothèques

## Page d'accueil

Cette page permet a au admin de déléguer un nouveau rôle au user

Full Name	email	role	
admin	admin@gmail.com	admin	<button>changer le role</button>
user1	user1@gmail.com	employee	<button>changer le role</button>
user2	user2@gmail.com	user	<button>changer le role</button>
user3	user3@gmail.com	user	<button>changer le role</button>
user4	user4@gmail.com	user	<button>changer le role</button>
aymanehinane@gmail.com	aymanehinane@gmail.com	user	<button>changer le role</button>

## Gestion Des Catégories

id	name
6404739c68eb3a9293cbc2e5	Fantasy
640473a868eb3a9293cbc2e8	Adventure
640473b468eb3a9293cbc2eb	Romance
640473c668eb3a9293cbc2ee	Art
640473cc68eb3a9293cbc2f1	History
6404740068eb3a9293cbc2f4	computer science
6404741668eb3a9293cbc2f7	Motivational

Cette page permet d'ajouter une nouvelle catégorie

## Gestion Des Livres

Book Store admin admin you are connected

Administration

- Home
- category
- Books
- Customer
- Library
- Reservation

Filter Product

Add new Product

	name	description	category	
consulter	A Day of Fallen Night	Tunuva Melim is a sister of the Priory. For fifty years, she has trained to slay wyrms – but none have appeared since the Nameless One, and the younger generation is starting to question the Priory's purpose. To the north, in the Queendom of Inys, Sabran the Ambitious has married the new King of Hróth, narrowly saving both realms from ruin. Their daughter, Glorian, trails in their shadow – exactly where she wants to be. The dragons of the East have slept for centuries. Dumai has spent her life in a Seikinese mountain temple, trying to wake the gods from their long slumber. Now someone from her mother's past is coming to upend her fate. When the Dreadmount erupts, bringing with it an age of terror and violence, these women must find the strength to protect humankind from a devastating threat. Intricate and epic, Samantha Shannon sweeps readers back to the world of A Priory of the Orange Tree, showing us a course of events that shaped it for generations to come.	Fantasy	Supprimer Modifier
consulter	Gunmetal Gods	They took his daughter, so Micah comes to take their kingdom. Fifty thousand gun-toting paladins march behind him, all baptized in angel blood, thirsty to burn unbelievers. Only the janissaries can stand against them. Their living legend, Kevah, once beheaded a magus amid a hail of ice daggers. But ever since his wife disappeared, he spends his days in a haze of hashish and poetry. To save the kingdom,	Fantasy	Supprimer Modifier

### Page de gestion de livre

Dans cette page on peut faire 4 action

- Rechercher un livre
- Ajouter un livre
- Consulter un livre
- Supprimer un livre
- Modifier un livre

## Page d'ajout des Livres

Gunmetal Gods | The Near Witch | NavBar - Bootstrap | Japanese Illustration | ServerlessInstant | Pour Écrire un Blog | React App | diagramme de classes

localhost:3000/admin/product/add

Book Store admin admin you are connected

Administration

- Home
- category
- Books**
- Customer
- Library
- Reservation

### Add New Book

name

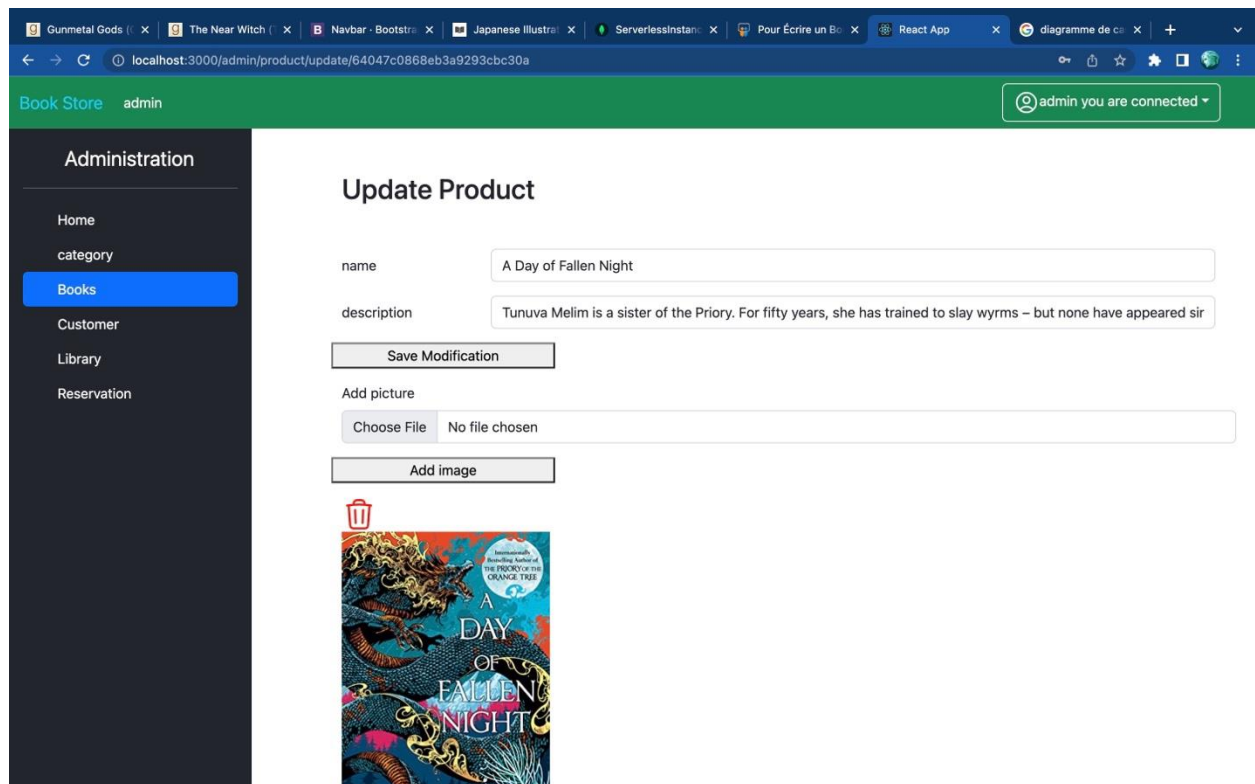
description

Category

Cette page permet l'ajout d'un livre on spécifiant sa catégorie



## Page de modification d'un livres



Book Store admin

admin you are connected

### Administration

- Home
- category
- Books**
- Customer
- Library
- Reservation

### Update Product

name: A Day of Fallen Night

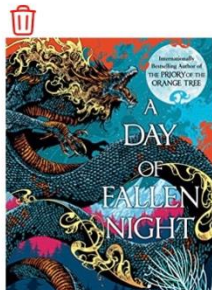
description: Tunuva Melim is a sister of the Priory. For fifty years, she has trained to slay wyrms – but none have appeared sir

Save Modification

Add picture

Choose File No file chosen

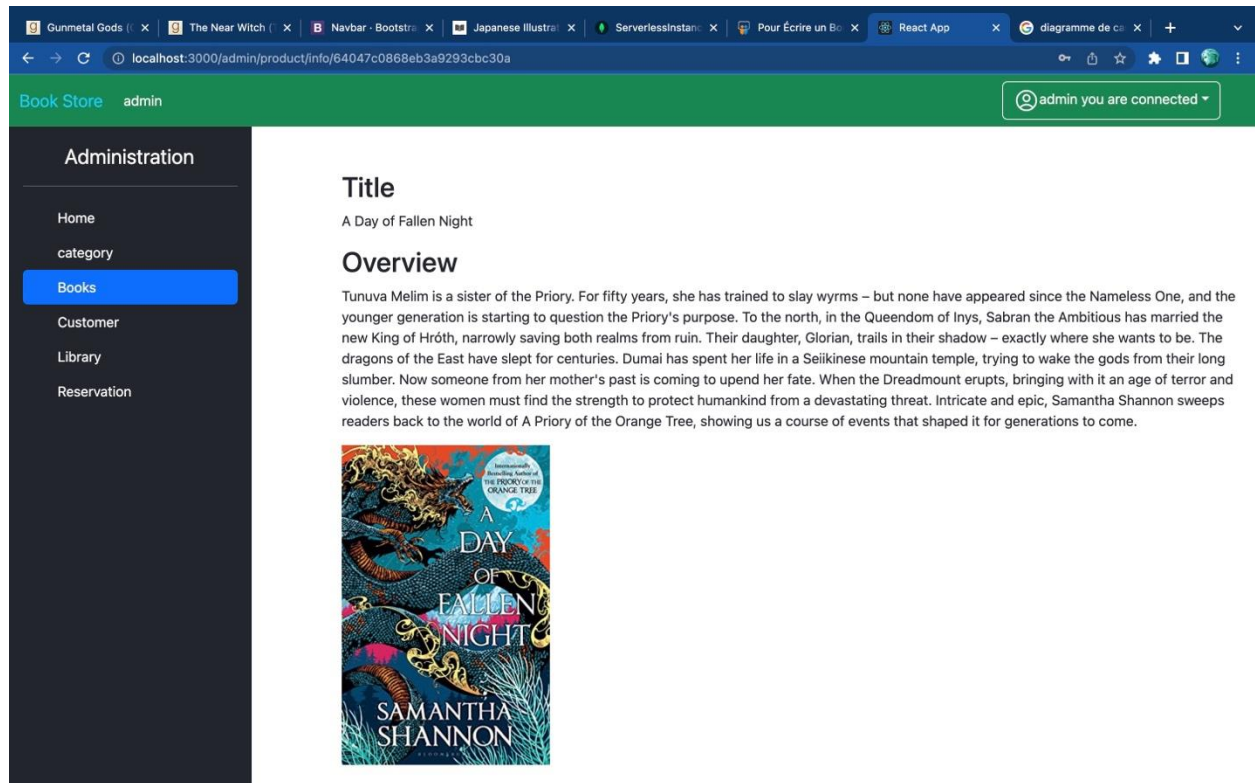
Add image



Cette page permet de modifier les donnée existant

Elle permet aussi d'ajouter plusieurs image a un book

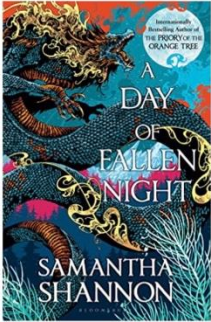
## Page de consultation d'information d'un livre



The screenshot shows a web application interface for a book store. The browser's address bar indicates the URL is `localhost:3000/admin/product/info/64047c0868eb3a9293cbc30a`. The application has a green header bar with "Book Store" and "admin" on the left, and a user connection status "admin you are connected" on the right. A dark sidebar on the left contains a navigation menu with the following items: "Administration", "Home", "category", "Books" (highlighted in blue), "Customer", "Library", and "Reservation". The main content area displays the product page for "A Day of Fallen Night" by Samantha Shannon. It features a "Title" section with the book's name, an "Overview" section with a detailed synopsis, and a book cover image. The synopsis describes a story set in a fantasy world involving dragons, a king, and a young woman named Tunuva Melim.

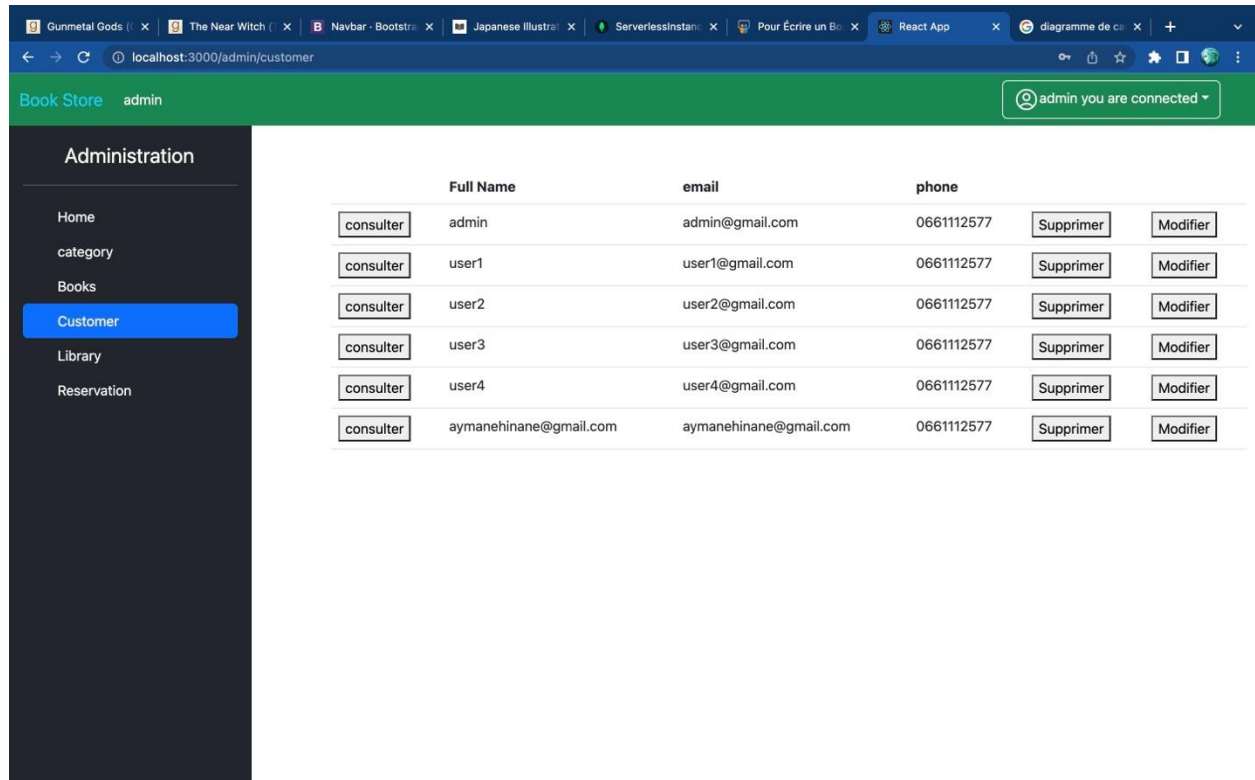
**Title**  
A Day of Fallen Night

**Overview**  
Tunuva Melim is a sister of the Priory. For fifty years, she has trained to slay wyrms – but none have appeared since the Nameless One, and the younger generation is starting to question the Priory's purpose. To the north, in the Queendom of Inys, Sabran the Ambitious has married the new King of Hróth, narrowly saving both realms from ruin. Their daughter, Glorian, trails in their shadow – exactly where she wants to be. The dragons of the East have slept for centuries. Dumai has spent her life in a Seikinese mountain temple, trying to wake the gods from their long slumber. Now someone from her mother's past is coming to upend her fate. When the Dreadmount erupts, bringing with it an age of terror and violence, these women must find the strength to protect humankind from a devastating threat. Intricate and epic, Samantha Shannon sweeps readers back to the world of A Priory of the Orange Tree, showing us a course of events that shaped it for generations to come.



Cette page permet de récupérer les information lier a un livre

## Page de gestions des utilisateurs

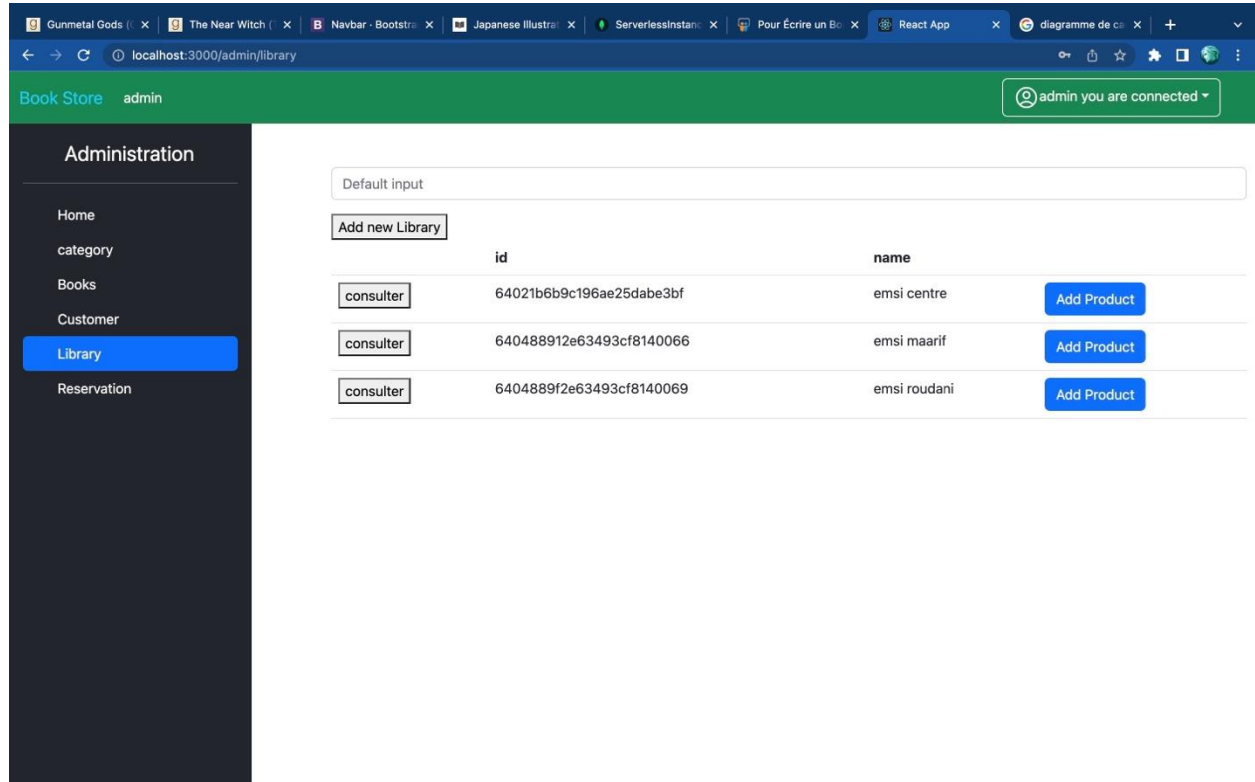


	Full Name	email	phone		
consulter	admin	admin@gmail.com	0661112577	Supprimer	Modifier
consulter	user1	user1@gmail.com	0661112577	Supprimer	Modifier
consulter	user2	user2@gmail.com	0661112577	Supprimer	Modifier
consulter	user3	user3@gmail.com	0661112577	Supprimer	Modifier
consulter	user4	user4@gmail.com	0661112577	Supprimer	Modifier
consulter	aymanehinane@gmail.com	aymanehinane@gmail.com	0661112577	Supprimer	Modifier

Cette page permet de faire 3 action

- Ajouter
- Modifier
- Supprimer

## Page de gestion des Bibliothèques



Cette page permet de faire 3 actions

- Ajouter une nouvelle bibliothèques
- Consulter les livres disponible dans chaque bibliothèques
- Ajouter un livre a une bibliothèque

## Page d'ajout de livre une bibliothèque

Book Store admin admin you are connected

### Rechercher le produit

u Search

name	description	category	quantite
Gunmetal Gods	They took his daughter, so Micah comes to take their kingdom. Fifty thousand gun-toting paladins march behind him, all baptized in angel blood, thirsty to burn unbelievers. Only the janissaries can stand against them. Their living legend, Kevah, once beheaded a magus amid a hail of ice daggers. But ever since his wife disappeared, he spends his days in a haze of hashish and poetry. To save the kingdom, Kevah must conquer his grief and become the legend he once was. But Micah writes his own legend in blood, and his righteous conquest will stop at nothing. When the gods choose sides, a legend will be etched upon the stars.	Fantasy	<input type="text"/> Add
ILLUSTRATION 2022 normal edition – cover : Cotoh Tsumi	This is the latest version of the popular book "ILLUSTRATION" series. 150 talented artists who cross the Japanese illustration scene that attracts the world's attention are posted. More than 90% of the published artists have been newly replaced from the previous book "ILLUSTRATION 2021", and you can experience the cutting edge of contemporary illustration.	Art	<input type="text"/> Add
The Usborne Book of World History	Presents an introduction to world history, from prehistoric peoples through ancient civilizations to the early twentieth century, focusing on the varying cultures, art, and daily life of civilizations throughout history.	History	<input type="text"/> Add
Dictionary of computer science	Previously named A Dictionary of Computing, this bestselling dictionary has been fully revised by a team of computer specialists, making it the most up-to-date and authoritative guide to computing available. Including expanded coverage of multimedia, computer applications, networking, and personal computing, it	computer science	<input type="text"/> Add

## Étape d'ajout d'un livre

- On cherche un livre
- On spécifie la quantité
- On clique sur le bouton Add

## Page de consultation des livres d'une bibliothèque

Book Store admin admin you are connected

	name	description	category	quantite	New quantite	
consulter	A Day of Fallen Night	Tunuva Melim is a sister of the Priory. For fifty years, she has trained to slay wyrms – but none have appeared since the Nameless One, and the younger generation is starting to question the Priory's purpose. To the north, in the Queendom of Inys, Sabran the Ambitious has married the new King of Hróth, narrowly saving both realms from ruin. Their daughter, Glorian, trails in their shadow – exactly where she wants to be. The dragons of the East have slept for centuries. Dumai has spent her life in a Seikinese mountain temple, trying to wake the gods from their long slumber. Now someone from her mother's past is coming to upend her fate. When the Dreadmount erupts, bringing with it an age of terror and violence, these women must find the strength to protect humankind from a devastating threat. Intricate and epic, Samantha Shannon sweeps readers back to the world of A Priory of the Orange Tree, showing us a course of events that shaped it for generations to come.	Fantasy	2	<input type="text"/>	Modifier
consulter	Gunmetal Gods	They took his daughter, so Micah comes to take their kingdom. Fifty thousand gun-toting paladins march behind him, all baptized in angel blood, thirsty to burn unbelievers. Only the janissaries can stand against them. Their living legend, Kevah, once beheaded a magus amid a hail of ice daggers. But ever since his wife disappeared, he spends his days in a haze of hashish and poetry. To save the kingdom, Kevah must conquer his grief and become the legend he once was. But Micah writes his own legend in blood, and his righteous conquest will stop at nothing. When the gods choose sides, a legend will be etched upon the stars.	Fantasy	5	<input type="text"/>	Modifier

Je peux consulter tous les livre d'une librairie  
Je peux modifier les livre d'une bibliothèques

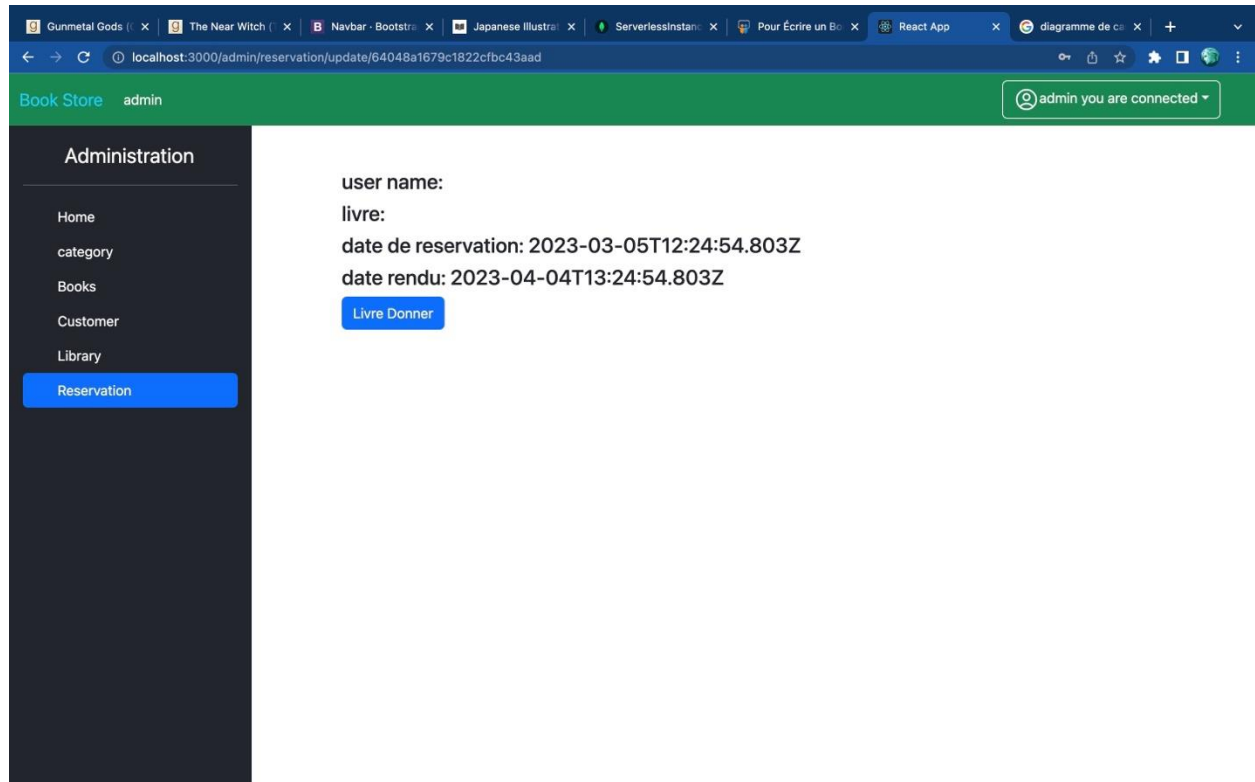
## Page de gestion des réservations

The screenshot shows a web application interface for managing reservations. The browser address bar indicates the URL is `localhost:3000/admin/reservation`. The page header shows 'Book Store' and 'admin', with a user connection status 'admin you are connected'. The sidebar menu includes 'Administration' and 'Reservation' (highlighted). The main content area displays a table of reservations.

name	date de reservation	date rendu	product name	pris	rendue		
user1	2023-03-05T12:24:54.803Z	2023-04-04T13:24:54.803Z	Gunmetal Gods	false	false	delete	modifier
user2	2023-03-05T12:26:20.235Z	2023-04-04T13:26:20.235Z	ILLUSTRATION 2022 normal edition – cover : Cotoh Tsumi	false	false	delete	modifier
user3	2023-03-05T12:27:35.783Z	2023-04-04T13:27:35.783Z	Gunmetal Gods	false	false	delete	modifier

Cette page permet de gérer les réservation d'un étudiant

## Page de gestion d'une réservation



Lorsque l'étudiant se dirige a la bibliothèques de l'école est prend le livre , le bibliothécaire click sur le button Livre donner pour informer que le livre a était donner à l'étudiant