

CRUD ECOMMERCE

Avec les HOOKS

Créer un nouveau projet intitulé frontend sous le dossier EcommerceHooks dont vous créer.

```
C:\>mkdir EcommerceHooks
```

```
C:\>cd EcommerceHooks
```

```
C:\EcommerceHooks>npx create-react-app frontend
```

```
Run `npm audit` for details.

Success! Created frontend at D:\MERN-SOIR\EcommerceHooks\frontend
Inside that directory, you can run several commands:

  npm start
    Starts the development server.

  npm run build
    Bundles the app into static files for production.

  npm test
    Starts the test runner.

  npm run eject
    Removes this tool and copies build dependencies, configuration files
    and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

  cd frontend
  npm start

Happy hacking!

D:\MERN-SOIR\EcommerceHooks>cd
```

Copier ensuite le dossier Backend qui contient les services web à utiliser

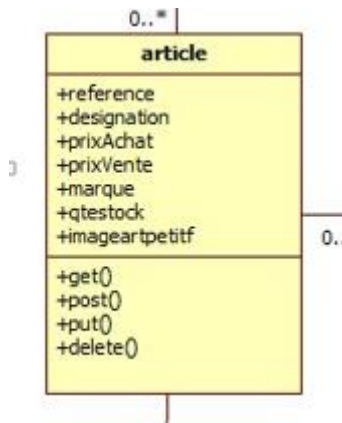
Démarrer visual studio code

```
C:\EcommerceHooks\>code .
```

Terminal → new terminal

```
C:\EcommerceHooks\>cd frontend
```

```
C:\EcommerceHooks\frontend>npm start
```



- Un article est caractérisé par:

Reference, designation, prixAchat, prixVente, prixSolde, marque, qtestock, caracteristiques, imageartpetitf, imageartgrandf, categorielD, scategorielD

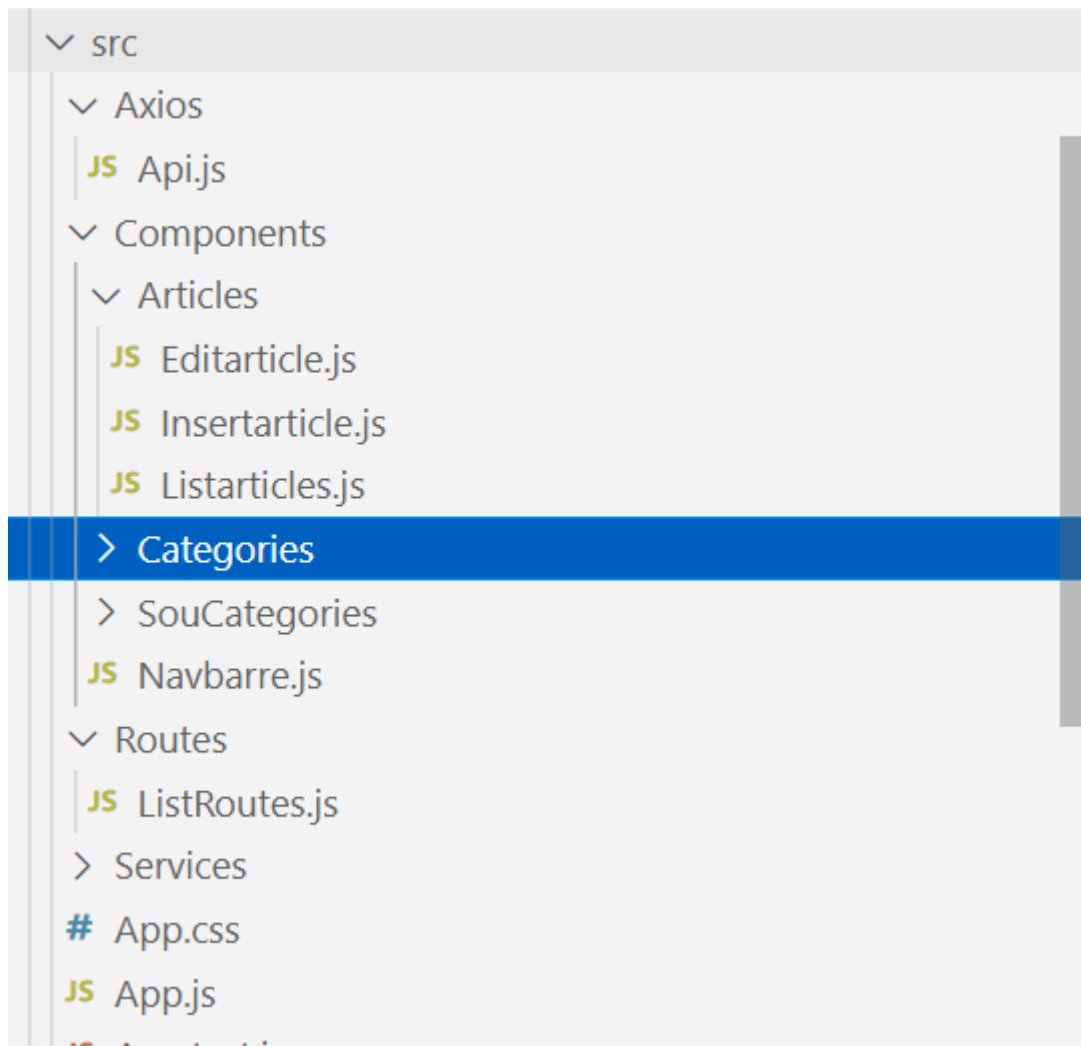
- Installer axios et react-router-dom

npm i axios

npm i react-router-dom

npm install react-bootstrap bootstrap@5.1.3

créer l'arborescence suivante sous le dossier **src** de votre frontend:



Fichier Listarticles.js (rafc)

```
import React from 'react'

const Listarticles = () => {
  return (
    <div>
      <h1>Liste des articles</h1>
    </div>
  )
}

export default Listarticles
```

fichier Insertarticle.js

```
import React from 'react'

const Insertarticle = () => {
  return (
    <div>
      <h1>Insertion d'un article</h1>
    </div>
  )
}

export default Insertarticle
```

Fichier Editarticle.js

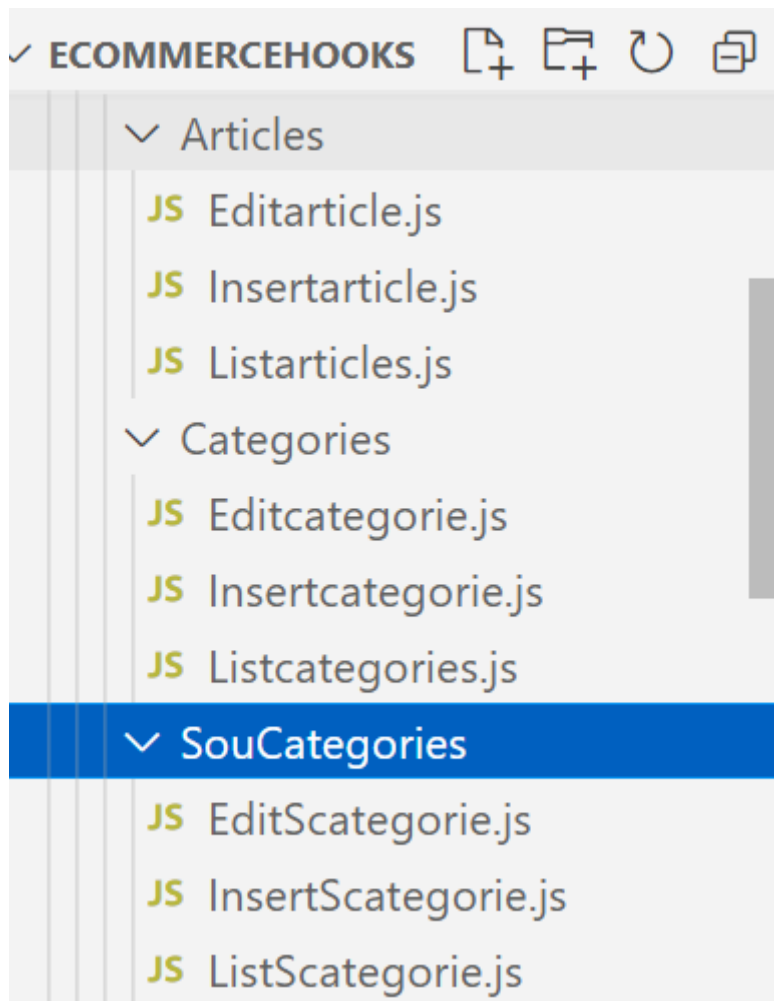
```
import React from 'react'

const Editarticle = () => {
  return (
    <div>
      <h1>Modifier un article</h1>
    </div>
  )
}

export default Editarticle
```

Créer de la même façon les dossier Categories et SousCategories dans le dossier Components

Chaque dossier contient les fichiers ; liste, insertion et edit



Créer sous le dossier Routes le fichier Routes.js

Fichier ListRoutes.js

```
import { Routes, Route } from "react-router-dom";
import Editarticle from "../Components/Articles/Editarticle";
import Insertarticle from "../Components/Articles/Insertarticle";
import Listarticles from "../Components/Articles/Listarticles";
import Editcategorie from "../Components/Categories/Editcategorie";
import Insertcategorie from "../Components/Categories/Insertcategorie";
import Listcategories from "../Components/Categories/Listcategories";
import EditScategorie from "../Components/SouCategories/EditScategorie";
import InsertScategorie from "../Components/SouCategories/InsertScategorie";
import ListScategorie from "../Components/SouCategories/ListScategorie";
const ListRoutes=() =>{
  return (

    <Routes>
    <Route path="/Articles" exact element={<Listarticles/>}/>
```

```

<Route path="/Articles/add" element={<Insertarticle/>}/>
<Route path="/Article/edit/:id" element={<Editarticle/>}/>
<Route path="/Categories" exact element={<Listcategories/>}/>
<Route path="/Categories/add" element={<Insertcategorie/>}/>
<Route path="/Categories/edit/:id" element={<Editcategorie/>}/>
<Route path="/Scategories" exact element={<ListScategorie/>}/>
<Route path="/Scategories/add" element={<InsertScategorie/>}/>
<Route path="/Scategories/edit/:id" element={<EditScategorie/>}/>
</Routes>

);
}
export default ListRoutes;

```

créer le fichier **Navbarre.js** dans le dossier Components afin de créer le menu

```

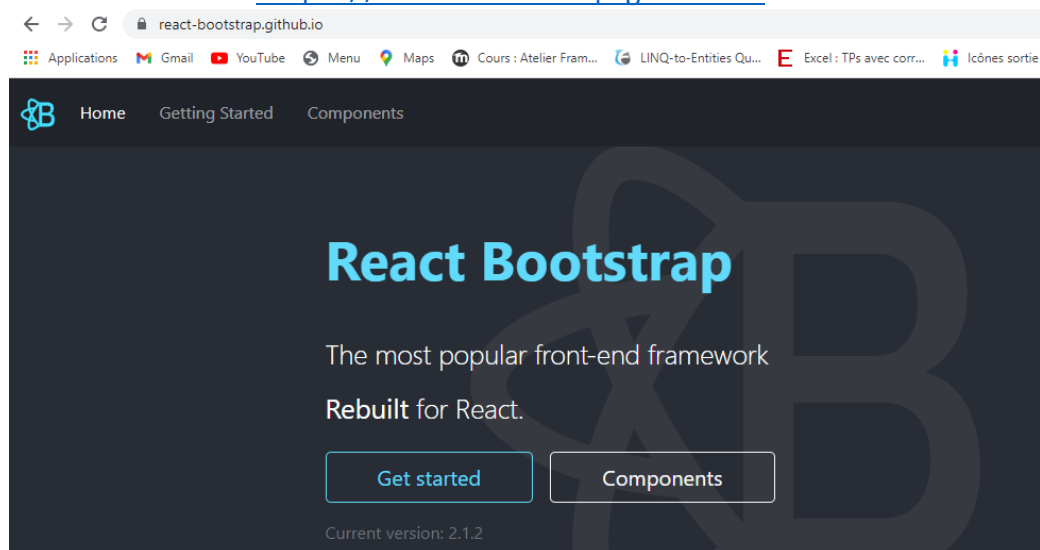
import React from 'react'

const Navbarre = () => {
  return (
    <div>

    </div>
  )
}
export default Navbarre

```

accéder au site <https://react-bootstrap.github.io>



Installer bootstrap react-bootstrap

```
npm install react-bootstrap bootstrap@5.1.3
```

Ajouter l'appel à bootstrap dans le fichier App.js

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

getStarted→Components→Navbarre

```
import React from 'react'

import {Nav, Navbar, Container, Form, FormControl, Button} from 'react-bootstrap';
import {Link} from 'react-router-dom'
const Navbarre=()=>{

  return(
<Navbar bg="primary" variant="dark">
  <Container>
    <Navbar.Brand>Gestion Commerciale</Navbar.Brand>
    <Nav className="me-auto">
      <Nav.Link as={Link} to="/Categories">Catégories</Nav.Link>
      <Nav.Link as={Link} to="/Scategories">Sous Catégories</Nav.Link>
      <Nav.Link as={Link} to="/Articles">Liste des Articles</Nav.Link>

    </Nav>
    </Container>
    <Form className="d-flex">
      <FormControl
        type="search"
        placeholder="Search"
        className="me-2"
        aria-label="Search"
      />
      <Button variant="success">Chercher</Button>
    </Form>

  </Navbar>
)
}
export default Navbarre
```

Fichier App.js

```
import Navbarre from './Components/Navbarre';
import 'bootstrap/dist/css/bootstrap.min.css';
import ListRoutes from './Routes/ListRoutes';
import {BrowserRouter as Router} from 'react-router-dom';

function App() {
```

```

return (
  <>
    <Router>

    <Navbarre/>

    <ListRoutes/>

    </Router>
  </>
);
}

export default App;

```

Fichier Api.js

```

import axios from 'axios'

export default axios.create({
  baseURL:"http://localhost:3001/api"
})

```

Fichier Article-Service.js

```

import Api from "../Axios/Api";
const ARTICLE_API="/articles"

const fetchArticles=async()=> {
  return await Api.get(ARTICLE_API);
}
const fetchArticleById=async(articleId)=> {
  return await Api.get(ARTICLE_API + '/' + articleId);
}
const deleteArticle=async(articleId) =>{
  return await Api.delete(ARTICLE_API + '/' + articleId);
}
const addArticle=async(article)=> {
  return await Api.post(""+ARTICLE_API, article);
}
const editArticle=(article) =>{
  return Api.put(ARTICLE_API + '/' + article.id, article);
}
const fetchArticleByCat=async(catId)=> {
  return await Api.get(ARTICLE_API + '/affparcat/' + catId);
}

```



```
    }  
    export const ArticleService = {  
      fetchArticles,  
      fetchArticleById,  
      deleteArticle,  
      addArticle,  
      editArticle,  
      fetchArticleByCat  
    }  
  }
```

Fichier Components/Articles/ListArticles.js

Installer Material UI (MUI)

Accéder au site <https://mui.com/>

The React UI library you always wanted

MUI provides a robust, customizable, and accessible library of foundational and advanced components, enabling you to build your design system and develop React applications faster.

Get started >

`npm install @mui/material @emotion/`



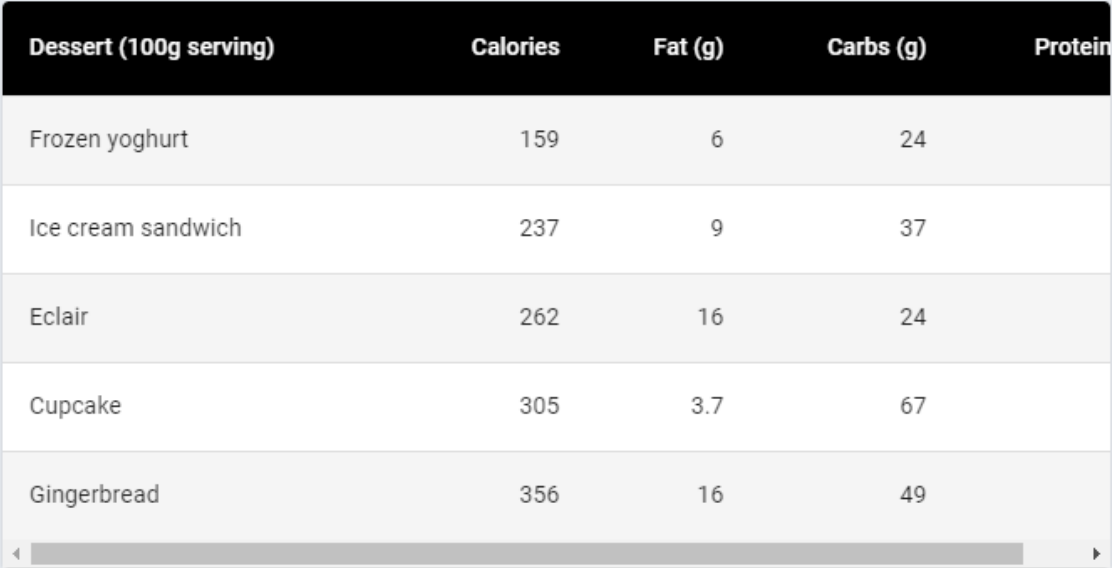
Installer MUI :

```
npm install @mui/material @emotion/react @emotion/styled
```

Get Started→Components→Table

Customization

Here is an example of customizing the component. You can learn more about this in the [overrides documentation page](#).



| Dessert (100g serving) | Calories | Fat (g) | Carbs (g) | Protein |
|------------------------|----------|---------|-----------|---------|
| Frozen yoghurt | 159 | 6 | 24 | |
| Ice cream sandwich | 237 | 9 | 37 | |
| Eclair | 262 | 16 | 24 | |
| Cupcake | 305 | 3.7 | 67 | |
| Gingerbread | 356 | 16 | 49 | |

```
import React from 'react'
import { styled } from '@mui/material/styles';
import Table from '@mui/material/Table';
import TableBody from '@mui/material/TableBody';
import TableCell, { tableCellClasses } from '@mui/material/TableCell';
import TableContainer from '@mui/material/TableContainer';
import TableHead from '@mui/material/TableHead';
import TableRow from '@mui/material/TableRow';
import Paper from '@mui/material/Paper';
import { ArticleService } from '../../Services/Article-Service';
import { useState, useEffect } from 'react';

const StyledTableCell = styled(TableCell)(({ theme }) => ({
  [`&.${tableCellClasses.head}`]: {
    backgroundColor: theme.palette.common.black,
    color: theme.palette.common.white,
  },
  [`&.${tableCellClasses.body}`]: {
    fontSize: 14,
  },
}));
```

```

const StyledTableRow = styled(TableRow)(({ theme }) => ({
  '&:nth-of-type(odd)': {
    backgroundColor: theme.palette.action.hover,
  },
  // hide last border
  '&:last-child td, &:last-child th': {
    border: 0,
  },
}));

```

```

const Listarticles = () => {
  const [articles, setArticles] = useState([]);
  useEffect(() => {
    GetListArticles();
  });
}

```

```

const GetListArticles=()=>{

  ArticleService.fetchArticles()
    .then((res) => {
      setArticles(res.data);
    });
}
return (
  <div>
    <TableContainer component={Paper}>
      <Table sx={{ minWidth: 700 }} aria-label="customized table">
        <TableHead>
          <TableRow>
            <StyledTableCell>Référence</StyledTableCell>
            <StyledTableCell align="left">Désignation</StyledTableCell>
            <StyledTableCell align="left">Marque</StyledTableCell>
            <StyledTableCell align="left">Quantité en stock</StyledTableCell>
            <StyledTableCell align="left">Prix</StyledTableCell>
            <StyledTableCell align="left">image</StyledTableCell>
            <StyledTableCell align="left">Catégorie</StyledTableCell>
          </TableRow>
        </TableHead>
        <TableBody>
          {articles.map((row) => (
            <StyledTableRow key={row.name}>

```

```

        <StyledTableCell component="th" scope="row">
            {row.reference}
        </StyledTableCell>
        <StyledTableCell align="left">{row.designation}</StyledTableCell>
        <StyledTableCell align="left">{row.marque}</StyledTableCell>
        <StyledTableCell align="left">{row.qtestock}</StyledTableCell>
        <StyledTableCell align="left">{row.prixVente}</StyledTableCell>
        <StyledTableCell align="left"><img src={` ${row.imageartpetitf} `}
alt="" width="100"/></StyledTableCell>
        <StyledTableCell
align="left">{row.categorieID.nomcategorie}</StyledTableCell>

    </StyledTableRow>
    )})
</TableBody>
</Table>
</TableContainer>
</div>
)
}

export default Listarticles

```

Créer le composant ListArticleCard.js

Accéder au site <https://mui.com/>

Component → Card

Importer les modules suivant

```
import Card from '@mui/material/Card';
import CardActions from '@mui/material/CardActions';
import CardContent from '@mui/material/CardContent';
import CardMedia from '@mui/material/CardMedia';
import Button from '@mui/material/Button';
import Typography from '@mui/material/Typography';
```

importer Card (code)

```
<Card sx={{ maxWidth: 345 }}>
  <CardActionArea>
    <CardMedia
      component="img"
      height="140"
      image="/static/images/cards/contemplative-reptile.jpg"
      alt="green iguana"
    />
    <CardContent>
      <Typography gutterBottom variant="h5" component="div">
        Lizard
      </Typography>
      <Typography variant="body2" color="text.secondary">
        Lizards are a widespread group of squamate reptiles, with over 6,000
        species, ranging across all continents except Antarctica
      </Typography>
    </CardContent>
  </CardActionArea>
  <CardActions>
    <Button size="small" color="primary">
      Share
    </Button>
  </CardActions>
</Card>
```

```

import {useState,useEffect} from 'react'
import Card from '@mui/material/Card';
import CardActions from '@mui/material/CardActions';
import CardContent from '@mui/material/CardContent';
import CardMedia from '@mui/material/CardMedia';
import Button from '@mui/material/Button';
import Typography from '@mui/material/Typography';
import {ArticleService} from '../../Services/Article-Service';
const ListArticleCard=()=>{

  const [articles, setArticles] = useState([]);

  useEffect(() => {
    GetListArticles();

  });
  const GetListArticles=async()=>{

    ArticleService.fetchArticles()
      .then((res) => {
        setArticles(res.data);

      });
  }
  return(
    <div className="container">
      <div
style={{display:"flex","flexWrap":"wrap","justifyContent":"left"}}>
        {articles.map((art,ind)=>{
          return <Card sx={{ maxWidth: 'auto',margin: 1 }}>
            <CardMedia
              component="img"
              alt="green iguana"
              height="160"
              image={art.imageartpetitf}
            />
            <CardContent>
              <Typography gutterBottom variant="h6" component="div">
                {art.reference}
              </Typography>
              <Typography variant="body2" color="text.secondary">
                Prix : {art.prixVente} DT
              </Typography>
            </CardContent>
            <CardActions>
              <Button disabled={art.qtestock<=1}
                variant="contained" color="secondary" size="large"

```

```
        >
        {art.qtestock<=1? "OUT OF SOLD": "Add to cart"}
    </Button>

    </CardActions>
  </Card>

  })}</div>
</div>
)

}
export default ListArticleCard
```

Installer

```
npm install @mui/icons-material
```

```
npm install @mui/styles
```

```
npm i mui-datatables
```

```
npm install react-filepond filepond --save
```

```
npm install --save react-toastify
```

```
npm i filepond-plugin-image-preview --save
```

```
npm i filepond-plugin-image-exif-orientation --save
```

```
import {ArticleService} from '../services/Article-Service';
import { useState,useEffect } from 'react';
import { ThemeProvider } from "@mui/styles";
import { createTheme } from "@mui/material/styles";
import MUIDataTable from "mui-datatables";
import { Button } from 'react-bootstrap';
import { Link } from "react-router-dom";
const LitArticles=()=>{
  const [articles, setArticles] = useState([]);

  useEffect(() => {
    GetListArticles();

  });

  const GetListArticles=()=>{

    ArticleService.fetchArticles()
      .then((res) => {
        setArticles(res.data);

      });

  }

  const columns = [
    {
      label: "Référence",
      name: "reference"
```



```

    },
    {
      label: "Désignation",
      name: "designation"
    },
    {
      label: "Prix Achat",
      name: "prixAchat"
    },
    {
      label: "Prix Vente",
      name: "prixVente"
    },
    {
      label: "Prix Solde",
      name: "prixSolde"
    },
    {
      label: "Marque",
      name: "marque"
    },
    {
      label: "Quatité Stock",
      name: "qtestock"
    },
  ],

  {
    name: "imageartpetitf",
    label: "Image",
    options: {
      customBodyRender : (rowData) => (
        <img
          style={{ height: 100, borderRadius: '50%' }}
          src={rowData}
          alt=""
        />
      )
    }
  },
  {
    name: "categorieID",
    label: "Catégorie",
    options: {
      customBodyRender : (categ) => (
        categ.nomcategorie
      )
    }
  },
],
{

```

```

        name: "scategorieID",
        label: "S/Catégorie",
        options: {
            customBodyRender : (scateg) => (
                categ? categ.nomscategorie : null
            )
        }
    },
    {
        name: "id",
        label: "Modification",
        options: {
            customBodyRender: (value) => (
                <Button variant="success" size="sm">
                    { <Link to={"/Article/edit/" + value} style={{ "text-decoration": "none", "color": "white" }} >
                        Modifier
                    </Link>
                </Button>
            )
        },
    },
    {
        name: "id",
        label: "Suppression",
        options: {
            customBodyRender: (value) => (
                <Button variant="danger" size="sm" onClick={() => { delFam(value) }}>
                    Supprimer
                </Button>
            )
        }
    }
],

const delFam= async (_id) => {
    await ArticleService.deleteArticle(_id)
    .then((res) => {
        console.log('Article successfully deleted!')
    }).catch((error) => {
        console.log(error)
    })
}

return(
    <div>

```

```
        <ThemeProvider theme={createTheme()}>
          <MUIDataTable
            title="Liste des articles"
            data={articles}
            columns={columns}
            options={{
              filterType: "checkbox",
            }}
          />
        </ThemeProvider>

      </div>
    )
  }
  export default LitArticles
```