

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

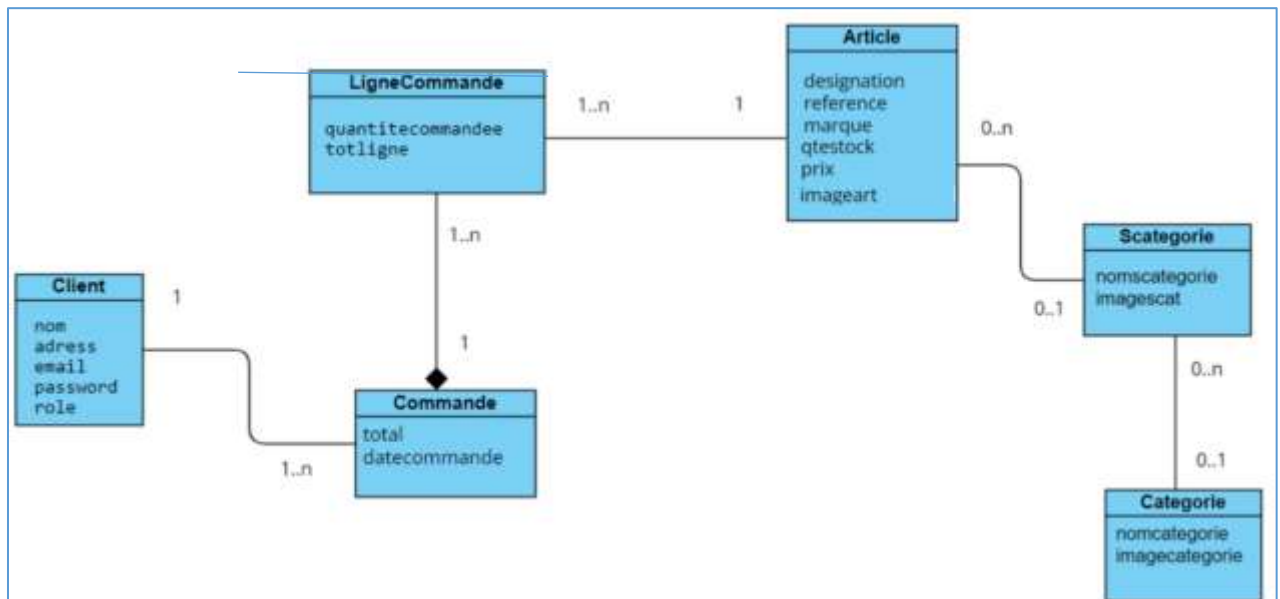
C:\EcommerceHooks\>**code .**

Terminal→new terminal

C:\EcommerceHooks\>cd frontend

C:\EcommerceHooks\frontend>npm start

- Un article est caractérisé par:



reference, designation, prix, marque, qtestock, imageart, categoriID

Installer axios et react-router-dom

npm i axios

npm i react-router-dom

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

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



Installer bootstrap react-bootstrap

npm install react-bootstrap bootstrap

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

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

Composant ProductApp

```
import React, { useState } from 'react';
import ProductList from './ProductList';
import CreateProduct from './CreateProduct';
import EditProduct from './EditProduct';

const ProductApp = () => {
  const [products, setProducts] = useState([]);
  const [editingProduct, setEditingProduct] = useState(null);

  const addProduct = (newProduct) => {
    setProducts([...products, newProduct]);
  };

  const deleteProduct = (productId) => {
    setProducts(products.filter((product) => product.id !== productId));
  };

  const updateProduct = (updatedProduct) => {
    setProducts(
      products.map((product) =>
        product.id === updatedProduct.id ? updatedProduct : product
      )
    );
    setEditingProduct(null);
  };

  return (
    <div>

      <ProductList
        products={products}
        deleteProduct={deleteProduct}
        setEditingProduct={setEditingProduct}
      />
      {editingProduct ? (
        <EditProduct
          product={editingProduct}
          updateProduct={updateProduct}
        />
      ) : (
        <CreateProduct addProduct={addProduct} />
      )}
    </div>
  );
}
```

```

    </div>
  );
};
export default ProductApp;

```

- Composant `ProductList`

```

import React from 'react';

const ProductList = ({ products, deleteProduct, setEditingProduct }) => {
  const handleEditClick = (product) => {
    setEditingProduct(product);
  };
  return (
    <div>
      <h2>Product List</h2>
      {products.map((product) => (
        <div key={product.id}>
          <h3>{product.name}</h3>
          <p>{product.description}</p>
          <button onClick={() => handleEditClick(product)}>Edit</button>
          <button onClick={() =>
deleteProduct(product.id)}>Delete</button>
        </div>
      ))}
    </div>
  );
};

export default ProductList;

```

- composant `CreateProduct`

```

import React, { useState } from 'react';

const CreateProduct = ({ addProduct }) => {
  const [name, setName] = useState('');
  const [description, setDescription] = useState('');

  const handleSubmit = (e) => {
    e.preventDefault();
    const newProduct = {
      id: Math.random().toString(),
      name,
      description,
    };
    addProduct(newProduct);
  };

```

```

    setName('');
    setDescription('');
  };

  return (
    <div>
      <h2>Create Product</h2>
      <form onSubmit={handleSubmit}>
        <input
          type="text"
          placeholder="Name"
          value={name}
          onChange={(e) => setName(e.target.value)}
        />
        <input
          type="text"
          placeholder="Description"
          value={description}
          onChange={(e) => setDescription(e.target.value)}
        />
        <button type="submit">Create</button>
      </form>
    </div>
  );
};

export default CreateProduct;

```

- composant EditProduct

```

import React, { useState } from 'react';

const EditProduct = ({ product, updateProduct }) => {
  const [name, setName] = useState(product.name);
  const [description, setDescription] = useState(product.description);

  const handleSubmit = (e) => {
    e.preventDefault();
    const updatedProduct = {
      ...product,
      name,
      description,
    };
    updateProduct(updatedProduct);
  };

  return (
    <div>

```

```
<h2>Edit Product</h2>
<form onSubmit={handleSubmit}>
  <input
    type="text"
    value={name}
    onChange={(e) => setName(e.target.value)}
  />
  <input
    type="text"
    value={description}
    onChange={(e) => setDescription(e.target.value)}
  />
  <button type="submit">Update</button>
</form>
</div>
);
};

export default EditProduct;
```

Material UI

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 material UI

<https://webdevassist.com/reactjs-materialui/installation>

composant ProductApp

```
import React, { useState,useEffect,useCallback } from 'react';
import axios from 'axios';
import ProductList from './ProductList';
import CreateProduct from './CreateProduct';
import EditProduct from './EditProduct';

const ProductApp = () => {
  const [products, setProducts] = useState([]);
  const [scategories, setScategories] = useState([]);
  const [editingProduct, setEditingProduct] = useState(null);
  const URL = "http://localhost:4000/api/"

  const fetchArticles = useCallback(async () => {
```

```

    try {
      const response = await axios.get(URL+"articles");
      setProducts(response.data);
    } catch (error) {
      console.error('Error fetching articles:', error);
    }
  }, []));
const fetchScategories= useCallback(async () => {
  try {
    const response = await axios.get(URL+"scategories");
    setScategories(response.data);
  } catch (error) {
    console.error('Error fetching articles:', error);
  }
}, []);

useEffect(() => {
  fetchArticles();
  fetchScategories();
}, [fetchArticles, fetchScategories]);

const addProduct = (newProduct) => {
  setProducts([...products, newProduct]);
};

const deleteProduct = (productId) => {
  setProducts(products.filter((product) => product._id !== productId));
};

const updateProduct = (updatedProduct) => {
  setProducts(
    products.map((product) =>
      product.id === updatedProduct._id ? updatedProduct : product
    )
  );
  setEditingProduct(null);
};

return (
  <div>

    {editingProduct ? (
      <EditProduct
        product={editingProduct}

```



```

        updateProduct={updateProduct}
      />
    ) : (
      <CreateProduct addProduct={addProduct}
scategories={scategories}/>
    )}

<ProductList
  products={products}
  deleteProduct={deleteProduct}
  setEditingProduct={setEditingProduct}
/>
</div>
);
};

export default ProductApp;

```

- **Composant CreateProduct**

```

import React, { useState } from 'react';
import { Box, Button , TextField , MenuItem , FormControl } from
 '@mui/material';
import axios from "axios";
const CreateProduct = ({ addProduct,scategories }) => {
  const [reference, setReference] = useState("");
  const [designation, setDesignation] = useState("");
  const [prix, setPrix] = useState("");
  const [marque, setMarque] = useState("");
  const [qtestock, setQtestock] = useState("");
  const [imageart, setImageart] = useState("");
  const [scategorieID, setScategorieID] = useState("");

  const URL = "http://localhost:4000/api/articles"

  const handleSubmit = (e) => {
    e.preventDefault();
    const newProduct = {
      reference,
      designation,
      prix,
      marque,
      qtestock,
      imageart,
      scategorieID
    };
  };

```

```

//faire le add dans la BD
axios.post(URL,newProduct)
.then(res => {
const response = res.data;
console.log(response)
  addProduct(newProduct);
  setReference('');
  setDesignation('');
  setPrix('');
  setMarque('');
  setQtstock('');
  setImageart('');
  setScategorieID('');
})

}

return (
  <div>
    <h2>Create Product</h2>
    <center>
      <Box style={{width:"60%"}}>
        <FormControl >
          <TextField
            variant="outlined"
            label="Désignation"
            value={designation}
            onChange={e => setDesignation(e.target.value)}
            required />
        </FormControl>
        <FormControl >
          <TextField
            variant="outlined"
            label="Référence"
            value={reference}
            onChange={e => setReference(e.target.value)}
            required />
        </FormControl>
        <FormControl >
          <TextField
            variant="outlined"
            label="Prix"
            type="number"
            value={prix}

```

```

        onChange={e => setPrix(e.target.value)}
      />
    </FormControl>
    <FormControl >
      <TextField
        variant="outlined"
        label="Image"
        type="text"
        value={imageart}
        onChange={e => setImageart(e.target.value)}
      />
    </FormControl>
    <FormControl >
      <TextField
        variant="outlined"
        label="Quantité Stock"
        type="number"
        value={qtestock}
        onChange={e => setQtestock(e.target.value)}
      />
    </FormControl>
    <FormControl >
      <TextField
        fullWidth
        style={{ marginLeft: 8 }}
        variant="outlined"
        label="Marque"
        value={marque}
        onChange={e => setMarque(e.target.value)}
      />
    </FormControl>
    <FormControl style={{ width: 350 }}>
      <TextField
        select
        label="S/Catégorie"
        style={{ marginLeft: 8 }}
        value={scategorieID}
        variant="outlined"
        helperText="Sélectionner une s/catégorie"
        onChange={e => setScategorieID(e.target.value)}
      />
      {
        scategories ?
        scategories.map((scat)=>

```

```

        <MenuItem key={scat._id}
value={scat._id}>{scat.nomscategorie}</MenuItem>
      )
      :null
    }
  </TextField>
</FormControl>
<div>
  <Button variant="contained" color="success"
onClick={(event)=>handleSubmit(event)}>Ajout</Button>
</div>
</Box>
</center>
</div>

);
};

export default CreateProduct;

```

Cruds with backend

Composant ProductApp.js

```
import React, { useState,useEffect,useCallback } from 'react';
import axios from 'axios';
import ProductList from './ProductList';
import CreateProduct from './CreateProduct';
import EditProduct from './EditProduct';

const ProductApp = () => {
  const [products, setProducts] = useState([]);
  const [scategories, setScategories] = useState([]);
  const [editingProduct, setEditingProduct] = useState(null);
  const URL = "http://localhost:4000/api/"

  const fetchArticles = useCallback(async () => {
    try {
      const response = await axios.get(URL+"articles");
      setProducts(response.data);
    } catch (error) {
      console.error('Error fetching articles:', error);
    }
  }, []);

  const fetchScategories= useCallback(async () => {
    try {
      const response = await axios.get(URL+"scategories");
      setScategories(response.data);
    } catch (error) {
      console.error('Error fetching articles:', error);
    }
  }, []);

  useEffect(() => {
    fetchArticles();
    fetchScategories();
  }, [fetchArticles,fetchScategories]);

  const addProduct = (newProduct) => {
    setProducts([newProduct,...products]);
  };

  const deleteProduct = (productId) => {
```

```

    if (
      !window.confirm("Are you sure you want to delete")
    ) {
      return;
    }

    //faire le delete dans la BD
    axios.delete(`${URL}articles/${productId}`)
      .then(res => {
        console.log(res.data);
        //faire le delete dans le tableau affiché
        setProducts(products.filter((product) => product._id !==
productId));
      })

  };

  const updateProduct = (updatedProduct) => {
    setProducts(
      products.map((product) =>
        product._id === updatedProduct._id ? updatedProduct : product
      )
    );

    setEditingProduct(null);
  };

  return (
    <div>

      {editingProduct ? (
        <EditProduct
          product={editingProduct}
          updateProduct={updateProduct}
          scategories={scategories}
        />
      ) : (
        <CreateProduct addProduct={addProduct}
scategories={scategories}/>
      )}

    <ProductList
      products={products}
      deleteProduct={deleteProduct}
      setEditingProduct={setEditingProduct}
    />
  </div>

```

```

    );
  };

  export default ProductApp;

```

composant ProductList.js

```

import React from 'react';
import Button from 'react-bootstrap/Button';
import Table from 'react-bootstrap/Table';

const ProductList = ({ products ,deleteProduct, setEditingProduct }) => {
  const handleEditClick = (product) => {
    setEditingProduct(product);
  };
  return (
    <div>
      <h2>Product List</h2>
      <center><Table striped bordered hover>
        <thead>
          <tr>
            <th>Image</th>
            <th>Référence</th>
            <th>Désignation</th>
            <th>Marque</th>
            <th>Quantité Stock</th>
            <th>Actions</th>
          </tr>
        </thead>
        <tbody>
          {products.map((product) => (
            <tr key={product._id}>
              <td><img src= {product.imageart} width={100}
height={100}/></td>
              <td>{product.reference}</td>
              <td>{product.designation}</td>
              <td> {product.marque}</td>

```

```

        <td>{product.qtestock}</td>
        <td><Button variant="primary" onClick={() =>
handleEditClick(product)}>Edit</Button>
        <Button variant="danger" onClick={() =>
deleteProduct(product._id)}>Delete</Button></td>
    </tr>
  )})
</tbody>
</Table></center>
</div>
);
};

export default ProductList;

```

composant CreateProduct

```

import React, { useState } from 'react';
import Button from 'react-bootstrap/Button';
import Form from 'react-bootstrap/Form';
import Col from 'react-bootstrap/Col';
import InputGroup from 'react-bootstrap/InputGroup';
import Row from 'react-bootstrap/Row';

import axios from "axios";
const CreateProduct = ({ addProduct, scategories }) => {
  const [reference, setReference] = useState("");
  const [designation, setDesignation] = useState("");
  const [prix, setPrix] = useState("");
  const [marque, setMarque] = useState("");
  const [qtestock, setQtestock] = useState("");
  const [imageart, setImageart] = useState("");
  const [scategorieID, setScategorieID] = useState("");

  const URL = "http://localhost:4000/api/articles"

  const handleSubmit = (e) => {
    e.preventDefault();
    const newProduct = {
      reference,
      designation,
      prix,
      marque,
      qtestock,
      imageart,
      scategorieID
    }
  }
}

```



```

    };

    //faire le add dans la BD
    axios.post(URL,newProduct)
    .then(res => {
        const response = res.data;

        addProduct(newProduct);
        setReference('');
        setDesignation('');
        setPrix('');
        setMarque('');
        setQtstock('');
        setImageart('');
        setScategorieID('');
    })

}

return (

    <div>
    <h2>Create Product</h2>
    <center>

    <div className="container w-100 d-flex justify-content-center">

        <div>

            <div className='form mt-3'>

                <Row className="mb-2">
                    <Form.Group as={Col} md="6" >
                        <Form.Label >Référence *</Form.Label>
                        <Form.Control
                            required
                            type="text"
                            placeholder="Référence"
                            value={reference}
                            onChange={(e)=>setReference(e.target.value)}

                        />
                        <Form.Control.Feedback type="invalid">
                            Saisir Référence Article
                        </Form.Control.Feedback>
                    </Form.Group>
                    <Form.Group as={Col} md="6">

```

```

        <Form.Label>Désignation *</Form.Label>
        <Form.Control
            required
            type="text"
            placeholder="Désignation"
            value={designation}
            onChange={(e)=>setDesignation(e.target.value)}
        />
        <Form.Control.Feedback type="invalid">
            Saisir Désignation
        </Form.Control.Feedback>
    </Form.Group>
</Row>
<Row className="mb-2">
    <Form.Group className="col-md-6">
        <Form.Label>Marque *</Form.Label>
        <InputGroup hasValidation>
            <Form.Control
                type="text"
                required
                placeholder="Marque"
                value={marque}
                onChange={(e)=>setMarque(e.target.value)}
            />
            <Form.Control.Feedback type="invalid">
                Marque Incorrecte
            </Form.Control.Feedback>
        </InputGroup>
    </Form.Group>
    <Form.Group as={Col} md="6">
        <Form.Label>Prix</Form.Label>

        <Form.Control
            type="number"
            placeholder="Prix"
            value={prix}
            onChange={(e)=>setPrix(e.target.value)}
        />

    </Form.Group>

</Row>
<Row className="mb-3">
    <Form.Group className="col-md-6 ">
        <Form.Label>
            Qté stock<span className="req-tag">*</span>
        </Form.Label>
        <Form.Control

```

```

        required
        type="number"
        value={qteststock}
        onChange={(e)=>setQteststock(e.target.value)}
        placeholder="Qté stock"
    />

    <Form.Control.Feedback type="invalid">
        Qté stock Incorrect
    </Form.Control.Feedback>
</Form.Group>
<Form.Group as={Col} md="6">
    <Form.Label>Image</Form.Label>
    <Form.Control
        type="text"
        placeholder="Image"
        value={imageart}
        onChange={(e)=>setImageart(e.target.value)}
    />

</Form.Group>
<Form.Group as={Col} md="12">
    <Form.Label>S/Catégorie</Form.Label>
    <Form.Control

        as="select"
        type="select"

        value={scategorieID}
        onChange={(e)=>setScategorieID(e.target.value)}

    >
    <option></option>
    {scategories.map((scat)=><option key={scat._id}
value={scat._id}>{scat.nomscategorie}</option>)}
    </Form.Control>

</Form.Group>

</Row>

</div>
<div>
    <Button variant="success"
onClick={(event)=>handleSubmit(event)}>Enregistrer</Button>
</div>

```

```

        </div>

        </div>
      </center>
    </div>

  );
};

export default CreateProduct;

```

composant `EditProduct`

```

import React, { useState } from 'react';
import Button from 'react-bootstrap/Button';
import Form from 'react-bootstrap/Form';
import Col from 'react-bootstrap/Col';
import InputGroup from 'react-bootstrap/InputGroup';
import Row from 'react-bootstrap/Row';
import axios from 'axios';
const EditProduct = ({ product, updateProduct, categories }) => {

  const [reference, setReference] = useState(product.reference);
  const [designation, setDesignation] = useState(product.designation);
  const [prix, setPrix] = useState(product.prix);
  const [marque, setMarque] = useState(product.marque);
  const [qtestock, setQtestock] = useState(product.qtestock);
  const [imageart, setImageart] = useState(product.imageart);
  const [scategorieID, setScategorieID] = useState(product.scategorieID);
  const URL = "http://localhost:4000/api/"

  const handleSubmit = (e) => {
    e.preventDefault();
    const updatedProduct = {
      ...product,
      reference,
      designation,
      prix,
      marque,
      qtestock,
      imageart,
      scategorieID
    };

    //update dans la BD
    axios.put(URL + 'articles/' + product._id, updatedProduct)
      .then(res => {
        console.log(res.data);

```

```

        //update dans le tableau affiché
        updateProduct(updatedProduct);
        //vider le form
        // setId('')
        setReference('');
        setDesignation('');
        setPrix('');
        setMarque('');
        setQtestock('');
        setImageart('');
        setScategorieID('');

    }) .catch(error=>{
        console.log(error)
        alert("Erreur ! Modification non effectuée")
    })
}

```

```

return (
    <div>
        <h2>Edit Product</h2>
        <center>
            <div className="container w-100 d-flex justify-content-center">

                <div>

                    <div className='form mt-3'>

                        <Row className="mb-2">
                            <Form.Group as={Col} md="6" >
                                <Form.Label >Référence *</Form.Label>
                                <Form.Control
                                    required
                                    type="text"
                                    placeholder="Référence"
                                    value={reference}
                                    onChange={(e)=>setReference(e.target.value)}
                                />
                                <Form.Control.Feedback type="invalid">
                                    Saisir Référence Article
                                </Form.Control.Feedback>
                            </Form.Group>
                            <Form.Group as={Col} md="6">
                                <Form.Label>Désignation *</Form.Label>

```

```

        <Form.Control
          required
          type="text"
          placeholder="Désignation"
          value={designation}
          onChange={(e)=>setDesignation(e.target.value)}
        />
        <Form.Control.Feedback type="invalid">
          Saisir Désignation
        </Form.Control.Feedback>
      </Form.Group>
    </Row>
    <Row className="mb-2">
      <Form.Group className="col-md-6">
        <Form.Label>Marque *</Form.Label>
        <InputGroup hasValidation>
          <Form.Control
            type="text"
            required
            placeholder="Marque"
            value={marque}
            onChange={(e)=>setMarque(e.target.value)}
          />
          <Form.Control.Feedback type="invalid">
            Marque Incorrecte
          </Form.Control.Feedback>
        </InputGroup>
      </Form.Group>
      <Form.Group as={Col} md="6">
        <Form.Label>Prix</Form.Label>

        <Form.Control
          type="number"
          placeholder="Prix"
          value={prix}
          onChange={(e)=>setPrix(e.target.value)}
        />

      </Form.Group>

    </Row>
    <Row className="mb-3">
      <Form.Group className="col-md-6 ">
        <Form.Label>
          Qté stock<span className="req-tag">*</span>
        </Form.Label>
        <Form.Control
          required

```

```

        type="number"
        value={qtestock}
        onChange={(e)=>setQtestock(e.target.value)}
        placeholder="Qté stock"
    />

    <Form.Control.Feedback type="invalid">
        Qté stock Incorrect
    </Form.Control.Feedback>
</Form.Group>
<Form.Group as={Col} md="6">
    <Form.Label>Image</Form.Label>
    <Form.Control
        type="text"
        placeholder="Image"
        value={imageart}
        onChange={(e)=>setImageart(e.target.value)}
    />

</Form.Group>
<Form.Group as={Col} md="12">
    <Form.Label>S/Catégorie</Form.Label>
    <Form.Control

        as="select"
        type="select"

        value={scategorieID}
        onChange={(e)=>setScategorieID(e.target.value)}

    >
    <option></option>
    {categories.map((scat)=><option key={scat._id}
value={scat._id}>{scat.nomscategorie}</option>)}
    </Form.Control>

</Form.Group>

</Row>

</div>
<div>
    <Button variant="success"
onClick={(event)=>handleSubmit(event)}>Modifier</Button>
</div>

</div>

```

```
        </div>
    </center>
</div>
);
};
export default EditProduct;
```