# **Groupomania**









### Contexte

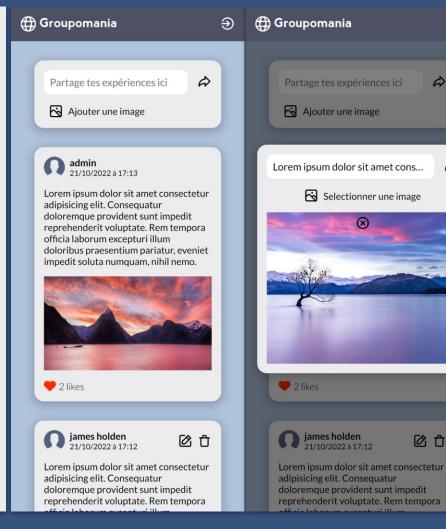
- Le client souhaite un réseau social interne à l'entreprise pour faciliter l'interaction entre collègues.
- Réalisation du backend, du frontend avec React et de la base de données avec mongoDB en partant de zéro

### Mission et critères à respecter

- Le site doit être responsive avec le logo et la police Lato
- Les données d'inscription doivent être sécurisées en database
- La connexion doit être persistante jusqu'à la déconnexion
- La déconnexion doit nous retourner sur la page de connexion
- La création, modification et suppression des postes doit comporter du texte et/ou une image
- L'utilisateur à la possibilité d'aimer les postes
- Un compte admin doit pouvoir modifier et supprimer tous les postes dans le but de pouvoir faire de la modération

### Présentation

- 1 Démonstration des fonctionnalités
- 2 Présentation détaillé du code
- 3 Bilan & Axes d'amélioration

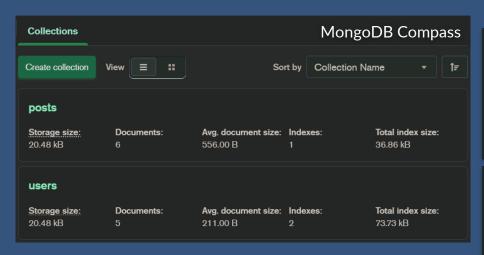


0

# 1. Démonstration des fonctionnalités

# 2. Database et Organisation

# Database - MongoDB



# **Backend - Organisation**

#### Structure

### package.json

"dependencies": {

"bcrypt": "^5.1.0",

"dotenv": "^16.0.3",

"express": "^4.18.2",

"mongoose": "^6.6.7",

"path": "^0.12.7",

"devDependencies": {

"nodemon": "^2.0.20"

"validator": "^13.7.0"

"jsonwebtoken": "^8.5.1",

"multer": "^1.4.5-lts.1",

"password-validator": "^5.3.0",

"helmet": "^6.0.0",

"cors": "^2.8.5",

### index.js

const cors = require("cors");

```
const express = require("express");
                                                    const helmet = require("helmet");
"mongoose-unique-validator": "^3.1.0",
```

```
const mongoose = require("mongoose");
mongoose
  .connect(process.env.MONGODB URI)
   console.log("Connexion à MongoDB réussie ! ");
   console.error("Connexion à MongoDB échouée ! " + error);
module.exports = { mongoose };
```

database.is

```
require("dotenv").config();
require("./services/database");
//* IMPORT ROUTE
const authRoutes = require("./routes/auth.routes");
const userRoutes = require("./routes/user.routes");
const postRoutes = require("./routes/post.routes");
const uploadRoute = require('./routes/upload.routes')
//* APP
const app = express();
const port = process.env.PORT | 4200;
//* MIDDLEWARE
app.use(helmet({ crossOriginResourcePolicy: { policy: "same-site" } }));
app.use(cors());
app.use(express.ison()):
//* IMAGES LOCAL
app.use(express.static("public"));
app.use("/images", express.static("images"));
//* ROUTES
app.use("/api/auth". authRoutes);
app.use("/api/users", userRoutes);
app.use("/api/posts", postRoutes);
app.use("/api/upload", uploadRoute);
//* LANCEMENT SUR LE PORT
app.listen(port, () => console.log("Listening on port : " + port));
```

```
V 🚭 api
 JS auth.controllers.js
     JS post.controllers.js
     JS user.controllers.js

✓ 

middleware

     JS auth.is
    JS validator.mail.js
     JS validator.pass.js

✓ 

✓ models

     JS Post.models.is
     JS User.models.js
 > node modules
 > m public\images
 JS auth.routes.js
    JS post.routes.is
     JS upload.routes.js
     Js user.routes.js

✓ 

services

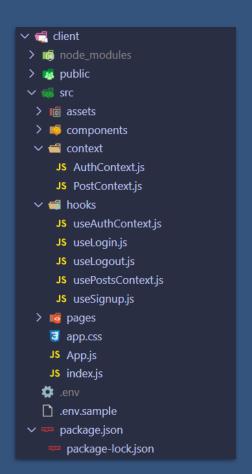
     JS database.is
   .env
    nenv.sample
```

JS index.js

∨ □□□ package.ison

package-lock.ison

# Frontend - Organisation

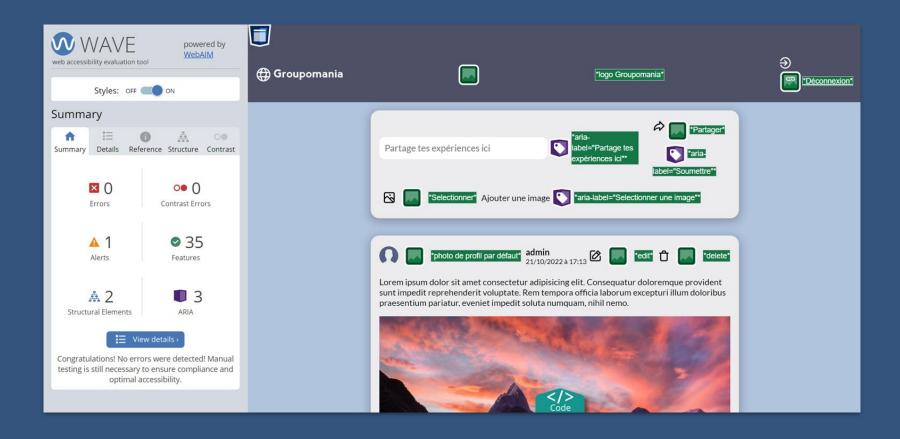


Structure

```
"proxy": "http://localhost:4200",
"name": "client",
"version": "0.1.0",
 "@emotion/serialize": "^1.1.0",
 "@emotion/styled": "^11.10.4",
 "@emotion/utils": "^1.2.0",
 "@mui/material": "^5.10.10",
 "@tabler/icons": "^1.107.0",
 "@testing-library/jest-dom": "^5.16.5",
 "@testing-library/react": "^13.4.0",
 "@testing-library/user-event": "^14.4.3",
 "date-fns": "^2.29.3",
 "dotenv": "^16.0.3",
 "react": "^18.2.0",
 "react-dom": "^18.2.0",
 "react-scripts": "5.0.1",
 "web-vitals": "^3.0.4"
```

package.json

## Frontend - Accessibilité



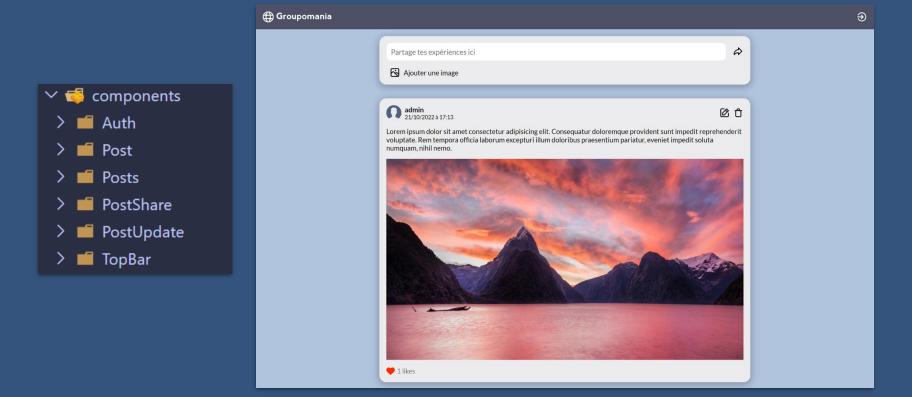
### Frontend - React Router

#### index.html

#### app.js

```
import { BrowserRouter, Routes, Route } from "react-router-dom";
import Signup from "./pages/Auth/Signup";
import Login from "./pages/Auth/Login";
import Home from "./pages/Home/Home";
import NotFound from "./pages/NotFound/NotFound";
import "./app.css";
function App() {
 return (
    <BrowserRouter>
      <Routes>
        <Route path="/signup" element={<Signup />} />
       <Route path="/" element={<Login />} />
        <Route path="/home" element={<Home />} />
        <Route path="*" element={<NotFound/>}/>
      </Routes>
    </BrowserRouter>
export default App;
```

# Frontend - Composants



# 2. Authentification

# Backend - Inscription (1)

```
const mongoose = require("mongoose");
const uniqueValidator = require("mongoose-unique-validator")
const userSchema = new mongoose.Schema({
    type: String,
   trim: true,
   type: String,
   minlength: 8,
   type: String,
   trim: true,
   type: String,
   trim: true,
  admin:
   type: Boolean,
userSchema.plugin(uniqueValidator);
module.exports = mongoose.model("User", userSchema);
```

Model

User

```
const bcrypt = require("bcrypt");
const jwt = require("jsonwebtoken");
const User = require("../models/User.models");
//* SIGNUP
const signup = async (req, res) => {
  const salt = await bcrypt.genSalt(10);
  const hashedPass = await bcrypt.hash(req.body.password, salt);
  req.body.password = hashedPass;
  try {
    let user = await User.findOne({ email: req.body.email });
    if (user) {
      return res.status(400).json({ error: "Email déjà utilisé" });
    user = await User.create({ ...req.body });
    res.status(200).json({ user });
  } catch (error) {
    res.status(500).json({ error: error.message });
```

Controller User

# Backend - Inscription (2)

#### Middleware validation email

```
const { isEmail } = require("validator");
const validEmail = (req, res, next) => {
  const { email } = req.body;
  if (isEmail(email)) {
    next();
  } else {
    return res
        .status(403)
        .json({ error: `${email} n'est pas un email valide` })
  }
};
module.exports = validEmail
```

#### **Router Authentification**

```
const router = require("express").Router();
const { signup, login } = require("../controllers/auth.controllers")
const mail = require ('../middleware/validator.mail')
const pass = require ('../middleware/validator.pass')

//* ROUTES
router.post("/signup", mail, pass, signup);
router.post("/login", login);

module.exports = router;
```

#### Middleware validation password

```
const passwordValidator = require("password-validator");
const passwordSchema = new passwordValidator();
passwordSchema
  .is().min(8)
  .is().max(32)
  .has().digits(1)
 .has().uppercase(1)
  .has().not().spaces();
const validPassword = (reg, res, next) => {
  if (passwordSchema.validate(req.body.password)) {
  } else {
    return res.status(403).json({
      error: `Le mot de passe doit contenir entre 8 et 32
      caractères avec au moins un chiffre et une majuscule
module.exports = validPassword;
```

# Frontend - Inscription

#### Composant Signup



### Formulaire d'inscription

```
import { useState } from "react";
import { Link } from "react-router-dom";
import { useSignup } from "../../hooks/useSignup";
const Signup = () => {
 const [firstname, setFirstname] = useState("");
 const [lastname, setLastname] = useState("");
 const [email, setEmail] = useState("");
 const [password, setPassword] = useState("");
 const { signup, error, isLoading } = useSignup();
 const handleSignup = async (e) => {
   e.preventDefault():
   await signup(email, password, firstname, lastname);
 return (
      <form className="authForm signup" onSubmit={handleSignup}>
        <h3>Inscription</h3>
       <div className="grid">
           reauired
           aria-Label="Prénom"
           placeholder="Prénom"
           className="authFormInput"
           tvpe="text"
           onChange={(e) => setFirstname(e.target.value)}
           value={firstname}
           pattern="^(?![\s.]+$)[A-zÀ-ú\s\-]{1,25}$"
```

### Hook useSignup

```
import { useState } from "react";
import { useNavigate } from "react-router-dom";
export const useSignup = () => {
 const [error, setError] = useState(null);
 const [isLoading, setIsLoading] = useState(null);
  let navigate = useNavigate();
 const signup = async (email, password, firstname, Lastname) => {
   setIsLoading(true);
    setError(null);
    const response = await fetch("/api/auth/signup", {
     method: "POST",
     headers: { "Content-Type": "application/json" },
     body: JSON.stringify({ email, password, firstname, lastname })
   const json = await response.json();
   if (!response.ok) {
     setError(ison.error):
    if (response.ok) {
     navigate("/");
   setIsLoading(false);
 return { signup, isLoading, error };
```

### **Backend - Connexion**

#### Controller Login

```
const login = async (req, res) => {
 const { email, password } = req.body;
 if (!email | !password) {
   return res.status(400).json({ error: "Tous les champs doivent être remplis" })
 try {
   const user = await User.findOne({
     email: email,
   if (user) {
     const validpass = await bcrypt.compare(password, user.password);
     if (!validpass) {
       res.status(400).json({error : "Mot de passe incorrect"});
      } else {
       const token = jwt.sign({
           mail: user.email,
           id: user. id,
         process.env.JWT TOKEN,
     res.status(404).json({error : "Adresse email incorrecte"});
 } catch (error) {
   res.status(500).json({ error: error.message });
```

#### **Router User**

```
const router = require("express").Router();
const { signup, login } = require("../controllers/auth.controllers")
const mail = require ('../middleware/validator.mail')
const pass = require ('../middleware/validator.pass')

//* ROUTES
router.post("/signup", mail, pass, signup);
router.post("/login", login);

module.exports = router;
```

# Frontend - Connexion (1)

#### Formulaire de connexion

```
import { useState } from "react";
import { Link } from "react-router-dom";
const Login = () => {
 const [email, setEmail] = useState("");
 const [password, setPassword] = useState("");
 const { login, isLoading, error } = useLogin();
 const handleLogin = async (e) => {
   await login(email, password);
 return (
   <form className="authForm login" onSubmit={handleLogin}>
     <h3>Connexion</h3>
       aria-Label="Adresse e-mail"
       placeholder="Adresse e-mail"
       className="authFormInput"
       type="email"
       value={email}
       aria-label="Mot de passe"
       className="authFormInput"
       placeholder="Mot de passe"
       type="password"
       value={password}
      {error && <div className="errorAuth">{error}</div>}
      <button disabled={isLoading} className="button authFormButton" type="submit">
       Connexion
       <button className="authFormText">
         <Link to="/signup">
           Vous n'avez pas de compte? Inscrivez-vous!
         </Link>
export default Login;
```

### Hook useLogin

```
import { useState } from "react";
import { useNavigate } from "react-router-dom";
import { useAuthContext } from "./useAuthContext";
export const useLogin = () => {
 const [isLoading, setIsLoading] = useState(null);
 let navigate = useNavigate();
 const login = async (email, password) => {
   const response = await fetch("/api/auth/login", {
     method: "POST",
     headers: { "Content-Type": "application/json" },
   const ison = await response.ison();
   if (!response.ok) {
   if (response.ok) {
     localStorage.setItem("user", JSON.stringify(json));
     navigate("/home");
     dispatch({ type: "LOGIN", payload: json });
 return { login, isLoading, error };
```

#### Composant Login



# Frontend - Connexion (2)

#### Context AuthContext

```
import { createContext, useEffect, useReducer } from "react";
export const AuthContext = createContext();
export const authReducer = (state, action) => {
 switch (action.type) {
   case "LOGIN":
     return { user: action.payload };
   case "LOGOUT":
   default:
     return state;
export const AuthContextProvider = ({ children }) => {
 const [state, dispatch] = useReducer(authReducer, { user: null })
  useEffect(() => {
   const user = JSON.parse(localStorage.getItem("user"));
   if (user) {
     dispatch({ type: "LOGIN", payload: user });
  console.log("AuthContext state: ", state);
  return (
   <AuthContext.Provider value={{ ...state, dispatch }}>
      {children}
   </AuthContext.Provider>
```

### Local Storage

#### Console

### Frontend - Déconnexion

#### Bouton déconnection



### Composant Topbar

```
<Link to="/">
  <img
  className="topBarLogout"
  src={signOut}
  alt="Déconnexion"
  onClick={handleLogout} />
</Link>
```

### Fonction HandleLogout

```
const { logout } = useLogout();
const handleLogout = () => {
  logout();
};
```

### **Hook Logout**

```
import { useAuthContext } from "./useAuthContext"

export const useLogout = () => {
   const { dispatch } = useAuthContext();

   const logout = () => {
        // Remove user from storage
        localStorage.removeItem("user");
        // dispatch logout action
        dispatch({ type: "LOGOUT" });
    };
   return { logout };
};
```

### Retour au login



### Console : localstorage vidé

```
AuthContext state:
▼{user: null} i
user: null
▶[[Prototype]]: Object
```

# 2. Posts

### Backend - Routeur + Authentification

#### **Router Posts**

```
const express = require("express");
const requireAuth = require("../middleware/auth")
const {
 createPost,
 getAllPosts.
 getOnePost,
 modifyPost,
 deletePost,
 likePost,
} = require("../controllers/post.controllers");
const router = express.Router();
//* ROUTES
router.use(requireAuth);
router.post("/", createPost);
router.get("/", getAllPosts);
router.get("/:id", getOnePost);
router.put("/:id", modifyPost);
router.delete("/:id", deletePost);
router.post("/:id/like", likePost);
module.exports = router;
```

#### Middleware d'authentification avec JWT

```
const jwt = require("jsonwebtoken");
//* AUTHENTIFICATION USER
const requireAuth = async (req, res, next) => {
  const { authorization } = req.headers;
 if (!authorization) {
    return res.status(401).json({ error: "Authorization token required" })
  try {
    const token = authorization.split(" ")[1];
    const decodedToken = jwt.verify(token, process.env.JWT_TOKEN);
    const userId = decodedToken.id;
    req.auth = {
     userId: userId,
  } catch (error) {
    console.log(error);
    res.status(401).json({ error: "Request is not authorized" });
module.exports = requireAuth;
```

# Backend - Model + Créer un post

#### Model Post

```
const mongoose = require("mongoose");
const postSchema = mongoose.Schema(
   userId: {
     type: String,
     required: true
     type: String,
     required: false
    image: {
     type: String
     type: []
   timestamps: true }
module.exports = mongoose.model("Post", postSchema)
```

#### Controller Créer un post

```
//* CREATE
const createPost = async (req, res) => {
  const reqPost = req.body;
  const newPost = new Post({
        ...reqPost,
    });
  try {
    await newPost.save();
    res.status(200).json(newPost);
  } catch (error) {
    res.status(500).json({ error: error.message })
  }
};
```

# Backend - Upload d'image + Multer

### Routes dans index.js

```
app.use("/api/posts", postRoutes);
app.use("/api/upload", uploadRoute);
```

#### Dossier local

```
app.use(express.static("public"));
app.use("/images", express.static("images"));
```

### Dossier d'upload

- ™ 1666365026692jason-clarke-mars-overflight-final-0
- 🔼 1666365101296quatre-aston-dans-le-nouveau-bon
- 1666365125440New Zealand (1).jpg
- M 1666365171674New Zealand (6).jpg
- 🔼 1666365224043New Zealand (2).jpg
- 1666450133183New Zealand (3).jpg

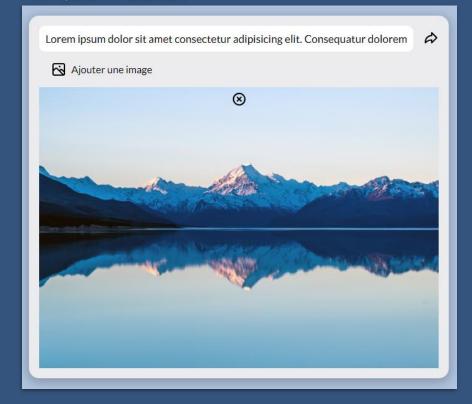
#### Router + Controller Multer

```
const express = require("express");
const multer = require("multer");
const router = express.Router()
const storage = multer.diskStorage({
  destination: (req, file, cb) => {
    cb(null, "public/images");
 filename: (req, file, cb) => {
    cb(null, req.body.name);
const upload = multer({ storage });
router.post("/", upload.single("file"), (req, res) => {
 try {
    return res.status(200).json("File uploaded successfully")
  } catch (error) {
    console.log({ error: error.message });
module.exports = router;
```

```
return (
 <section className="postShare">
                                               Création du Post
   <form onSubmit={handleShare}>
          type="text"
         placeholder="Partage tes expériences ici"
         onChange={(e) => setDesc(e.target.value)}
         value={desc}
         aria-label="Partage tes expériences ici"
       <button type="submit" aria-label="Soumettre">
          <img className="postShareButton" src={share} alt="Partager"/>
       </button>
      {error && <div className="error">{error}</div>}
     <div className="postShareOptions">
       <div onClick={() => imageRef.current.click()}>
          <img src={image} alt="Selectionner" />Ajouter une image
         className="postShareOption"
          type="file"
         accept="image/png, image/jpeg, image/jpeg, image/webp"
         ref={imageRef}
         aria-label="Selectionner une image"
     {file && (
       <div className="uploaded-image">
          <img src={URL.createObjectURL(file)} alt="Image du post"/>
          <div className="close-icon" onClick={() => setFile(null)}>
           {<img src={crossRemove} alt="Supprimer l'image"/>}
 </section>
```

# Frontend - Créer Post (1)

### Composant PostShare



```
const handleShare = async (e) => {
                                            Envoi du Post
  e.preventDefault();
 if (!currentUser) {setError("Vous devez être connecté");
 if (desc === "" && file === null) {
   setError("Vous devez ajouter une description et/ou une photo")
    return;
  const post = {
    userId: currentUser.user. id,
    desc: desc,
  if (file) {
    const data = new FormData();
    const fileName = Date.now() + file.name;
    data.append("name", fileName);
   data.append("file", file);
   post.image = fileName;
    try {
     await fetch("/api/upload", {
        method: "POST",
       headers: { Authorization: `Bearer ${currentUser.token}` },
        body: data,
    } catch (error) { console.log({ message: error.message }) }
    const response = await fetch("/api/posts", {
     method: "POST",
     body: JSON.stringify(post),
        "Content-Type": "application/json",
       Authorization: `Bearer ${currentUser.token}`,
    const json = await response.json();
    setDesc("");
    setFile(null);
    setError(null)
    dispatch({ type: "CREATE_POST", payload: json });
  } catch (error) {
    console.log({ message: error.message });
```

# Frontend - Créer Post (2)

#### **Context Post**

```
import { createContext, useReducer } from "react";
export const PostsContext = createContext();
export const postsReducer = (state, action) => {
 switch (action.type) {
   case "SET POSTS":
     return { posts: action.payload };
   case "CREATE POST":
     return { posts: [action.payload, ...state.posts] };
   case "DELETE POST":
   case "UPDATE POST":
           return post;
   default:
     return state;
export const PostsContextProvider = ({ children }) => {
 const [state, dispatch] = useReducer(postsReducer, { posts: null })
   <PostsContext.Provider value={{ ...state, dispatch }}>
   </PostsContext.Provider>
```

# Backend - Afficher les posts

#### Controller Afficher tous les posts

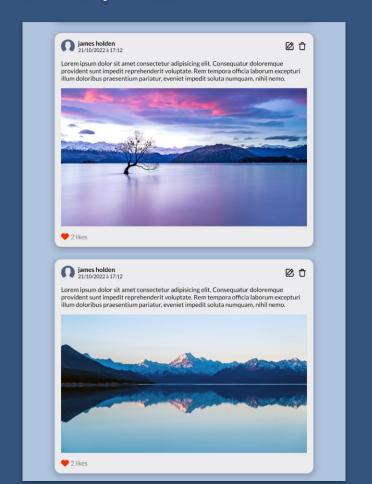
#### Posts dans la database

```
id: ObjectId('6352b6c5955d9722ae467399')
userId: "6352b4e3955d9722ae467333"
desc: "Lorem ipsum dolor sit amet consectetur adipisicing elit. Consequatur d ... "
image: "1666365125440New Zealand (1).jpg"
likes: Arrav
createdAt: 2022-10-21T15:12:05.780+00:00
updatedAt: 2022-10-21T15:13:20.729+00:00
id: ObjectId('6352b6e9955d9722ae46739d')
userId: "6352b4e3955d9722ae467333"
desc: "Lorem ipsum dolor sit amet consectetur adipisicing elit. Consequatur d ... "
image: "1666450133183New Zealand (3).jpg"
likes: Array
createdAt: 2022-10-21T15:12:41.481+00:00
updatedAt: 2022-10-22T14:48:53.535+00:00
id: ObjectId('6352b6f3955d9722ae4673a1')
userId: "6352b4e3955d9722ae467333"
desc: "Lorem ipsum dolor sit amet consectetur adipisicing elit. Consequatur d ... "
image: "1666365171674New Zealand (6).jpg"
likes: Array
createdAt: 2022-10-21T15:12:51.998+00:00
updatedAt: 2022-10-23T22:56:09.270+00:00
id: ObjectId('6352b728955d9722ae4673d1')
userId: "6346dfdd81fa1333d480cd80"
desc: "Lorem ipsum dolor sit amet consectetur adipisicing elit. Consequatur d ... "
image: "1666365224043New Zealand (2).jpg"
likes: Arrav
createdAt: 2022-10-21T15:13:44.061+00:00
updatedAt: 2022-10-24T00:19:50.066+00:00
```

# Frontend - Afficher les posts

### **Composants Posts**

```
import { useEffect } from "react";
import { useAuthContext } from "../../hooks/useAuthContext";
import { usePostsContext } from "../../hooks/usePostsContext";
import Post from "../Post/Post";
 const { user } = useAuthContext();
 const { posts, dispatch } = usePostsContext();
   const fetchPosts = async () => {
     const response = await fetch("/api/posts", {
     const json = await response.json();
     if (response.ok) {
       dispatch({ type: "SET POSTS", payload: json });
   if (user) {
 }, [user, dispatch]);
 return (
      {posts && posts.map((post) => <Post post={post} key={post. id} />)}
export default Posts;
```



# Backend - Modifier + Supprimer

#### Controller Modifier un post

```
//* MODIFY
const modifyPost = async (reg, res) => {
  const postId = req.params.id;
  const { userId, admin } = req.body;
  try {
    const post = await Post.findById(postId);
    if (admin || post.userId === userId) {
      if ((req.body.image && post.image) || post.image) {
        const filename = post.image.split("public/images/")[0];
        unlink(`public/images/${filename}`, () => {});
      await post.updateOne({ $set: req.body });
      res.status(200).json(req.body);
    } else {
      res.status(403).json({
        error : "Vous ne pouvez mettre à jour que vos propres messages !'
  } catch (error) {
    res.status(500).json({ error: error.message });
```

### Controller Supprimer un post

```
//* DELETE
const deletePost = async (req, res) => {
  const postId = req.params.id;
  const { userId, admin } = req.body;
  try {
    const post = await Post.findById(postId);
   if (admin || post.userId === userId) {
     if (post.image) {
        const filename = post.image.split("public/images/")[0];
        unlink(`public/images/${filename}`, () => {
          post.deleteOne();
      post.deleteOne():
      res.status(200).json(post);
     else {
      res.status(403).json({
        error : "Vous ne pouvez mettre à jour que vos propres messages
  } catch (error) {
    res.status(500).json({ error: error.message });
```

# Frontend - Modifier + Supprimer

#### **Composant Post**

```
//* UPDATE POST
const handleUpdate = () => {
  if (auth.user.admin || auth.user.id === post.userId) {
    setUpdatePostModal(true);
//* DELETE POST
const handleDelete = async () => {
  const deleteReq = {
    userId: auth.user._id,
    admin: auth.user.admin.
  try {
    if (auth.user.admin || auth.user. id === post.userId) {
      const deleteRes = await fetch(`/api/posts/${post. id}`,
        method: "DELETE".
        body: JSON.stringify(deleteReq),
        headers: {
          "Content-Type": "application/json",
          "Access-Control-Allow-Origin": "*".
          Authorization: `Bearer ${auth.token}`,
      const json = await deleteRes.json();
      dispatch({ type: "DELETE_POST", payload: json });
  } catch (error) {
    console.log({ message: error.message });
```

### Condition de l'affichage des boutons Modifier / Supprimer



```
const handleUpdate = async (e) \Rightarrow \{
                                          Modifier Post
 if (updatePost.desc === "" && file === null) {
 if (auth.user.admin || auth.user.id === data.userId) {
       const data = new FormData();
       const fileName = Date.now() + file.name;
       data.append("name", fileName);
       data.append("file", file);
        updatePost.image = fileName;
         await fetch("/api/upload", {
           method: "POST",
           headers: { Authorization: `Bearer ${auth.token}`,},
           body: data,
         console.log({ message: error.message });
      } else {
        updatePost.image = null;
      const response = await fetch(`/api/posts/${data. id}`, {
       method: "PUT",
       body: JSON.stringify(updatePost),
        headers: {
         "Content-Type": "application/json",
         Authorization: `Bearer ${auth.token}`,
      const json = await response.json();
      setFile(null);
     dispatch({ type: "UPDATE POST", payload: json });
    } catch (error) {
```

## Frontend - Modifier

### Composant - PostUpdate



#### Backend - Controller Like

```
//* LIKE
const likePost = async (req, res) => {
  const postId = req.params.id;
  const { userId } = req.body;
  try {
    const post = await Post.findById(postId);
    if (!post.likes.includes(userId)) {
        await post.updateOne({ $push: { likes: userId } })
        res.status(200).json("Post liked !");
    } else {
        await post.updateOne({ $pull: { likes: userId } })
        res.status(200).json("Post disliked !");
    }
} catch (error) {
    res.status(500).json({ error: error.message });
}
};
```

#### Frontend - Bouton (changement de l'icône)

```
<div onClick={handleLike} className="postLike">
  <img
  src={liked ? likeIcon : likeEmpty}
  alt="liked" /> {like} likes
</div>
```

## Backend + Frontend - Likes

### Frontend - Composant Post

```
//* LIKE POST
const [like, setLike] = useState(post.likes.length);
const [liked, setLiked] = useState(false);
useEffect(() => {
  setLiked(post.likes.includes(auth.user. id));
}, [auth.user._id, post.likes]);
const handleLike = async () => {
  const likeReq = {
    userId: auth.user. id,
  const likeRes = await fetch("/api/posts/" + post. id + "/like", {
    method: "POST",
    body: JSON.stringify(likeReq),
    headers: {
      "Content-Type": "application/json",
      Authorization: `Bearer ${auth.token}`,
  const json = await likeRes.json();
  dispatch({ type: "LIKE POST", payload: json });
  setLike(liked ? like - 1 : like + 1);
  setLiked(!liked);
```

# 3 - Bilan & Axes d'amélioration

### Cahier des charges

- Identité graphique respectés (Logo & Police)
- Produit totalement responsive
- Mis en place du backend, frontend et base de données
- Users & Posts stockés en database (mongoDB)
- Password utilisateurs sécurisés en database
- Utilisation d'un framework JavaScript (React)
- Connexion persistante + Déconnexion
- Postes affichés de façon antéchronologique
- Créer + Modifier + Supprimer un post
- Un poste peut contenir du texte et/ou une image
- L'utilisateur peut aimer les postes
- Un compte peut supprimer et modifier chaques postes
- Lancement du projet en suivant le readme
- Respecte les standards d'accessibilité (WCAG)

### Axes d'amélioration

- Une page de profil pour chaque utilisateur avec plus d'informations (photo de profil, date de naissance, etc...)
- Une page ou un modal pour chaque poste pour avoir une meilleure visibilitée
- Un système de commentaires pour plus d'intéraction
- Un système de chat pour que différent utilisateurs puissent échanger
- Avoir le choix entre un light & dark mode
- Contrôler le poids max d'une image ajoutée
- Minifier et optimiser le code (meilleures performances)
- Renforcer la sécurité dans le backend (OWASP)