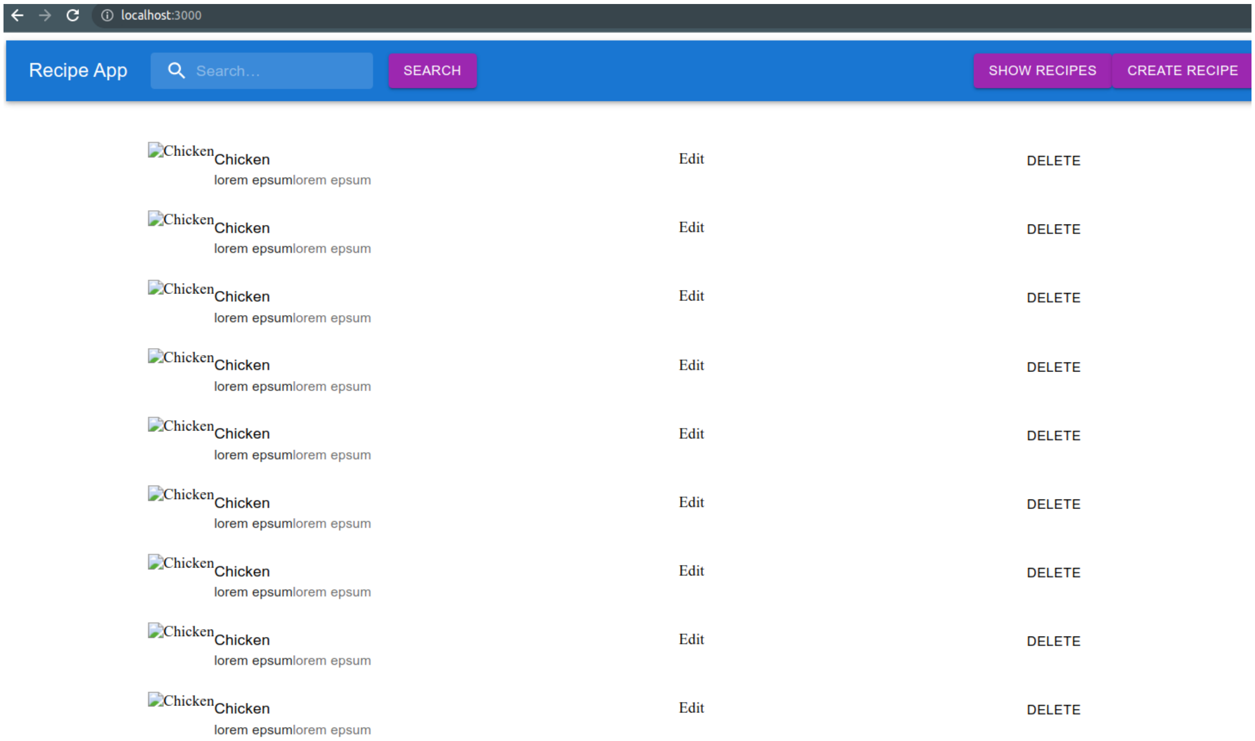
Show Recipes

```
import FormControl from "@mui/material/FormControl";
import InputLabel from "@mui/material/InputLabel";
import { Box, OutlinedInput, Typography } from "@mui/material";
import { Button } from "@mui/material";
import { useState } from "react";

const CreateRecipe = () => {
 const [loading, setLoading] = useState(false);
 const [recipe, setRecipe] = useState({
   title: "",
   description: "",
   ingredients: "",
   instructions: "",
   image: "",
 });
 const handleChange = (event) => {
   setRecipe({
     ...recipe,
     [event.target.name]: event.target.value,
   });
 };

 const onSubmit = async (event) => {
   event.preventDefault();
   setLoading(true);
   const { title, ingredients, instructions, description } = recipe;
   console.log(recipe);
   const response = await fetch("http://localhost:4000/recipes", {
     method: "POST",
     headers: {
       "Content-Type": "application/json",
     },
     body: JSON.stringify({
       title,
       ingredients,
       instructions,
       description,
     }),
   });
   const data = await response.json();
   console.log(data);
   setLoading(false);
 };

 return (
   <>
     {loading ? (
       <Typography variant="h4">Loading...</Typography>
     ) : (
       <Box
         sx={{
           display: "flex",
           flexDirection: "column",
           justifyContent: "center",
           width: "100%",
           marginTop: "2%",
           marginBottom: "2%",
           marginLeft: "10%",
         }}
       >
         <Typography variant="h4">Create Recipe</Typography>
         <form
           onSubmit={onSubmit}
           style={{
             display: "flex",

             flexDirection: "column",
             justifyContent: "center",
             width: "100%",
             marginTop: "2%",
           }}
         >
           <FormControl sx={{ m: 1, width: "25%" }} variant="outlined">
             <InputLabel htmlFor="component-outlined">Title</InputLabel>
             <OutlinedInput
```

```
               id="component-outlined"
               value={recipe.title}
               name="title"
               onChange={handleChange}
               label="Title"
             />
           </FormControl>
           <FormControl sx={{ m: 1, width: "25%" }} variant="outlined">
             <InputLabel
htmlFor="component-outlined">Description</InputLabel>
             <OutlinedInput
               id="component-outlined"
               value={recipe.description}
               name="description"
               onChange={handleChange}
               label="Description"
             />
           </FormControl>
           <FormControl sx={{ m: 1, width: "25%" }} variant="outlined">
             <InputLabel
htmlFor="component-outlined">Ingredients</InputLabel>
             <OutlinedInput
               id="component-outlined"
               value={recipe.ingredients}
               name="ingredients"
               onChange={handleChange}
               label="Ingredients"
             />
           </FormControl>
           <FormControl sx={{ m: 1, width: "25%" }} variant="outlined">
             <InputLabel
htmlFor="component-outlined">Instructions</InputLabel>
             <OutlinedInput
               id="component-outlined"
               value={recipe.instructions}
               name="instructions"
               onChange={handleChange}
               label="Instructions"
             />
           </FormControl>
           <FormControl sx={{ m: 1, width: "25%" }} variant="outlined">
             <Button variant="contained" component="label">
               Upload File
               <input type="file" hidden />
             </Button>
           </FormControl>
           <FormControl sx={{ m: 1, width: "25%" }} variant="outlined">
             <button
               type="submit"
               style={{
                 backgroundColor: "#4CAF50",
                 color: "white",
                 padding: "14px 20px",
                 margin: "8px 0",
                 border: "none",
                 cursor: "pointer",
                 width: "100%",
                 borderRadius: "4px",
                 fontSize: "16px",
                 fontWeight: "bold",
               }}
             >
               Submit
             </button>
           </FormControl>
         </form>
       </Box>
     )}
   </>
 );
};
export default CreateRecipe;
```



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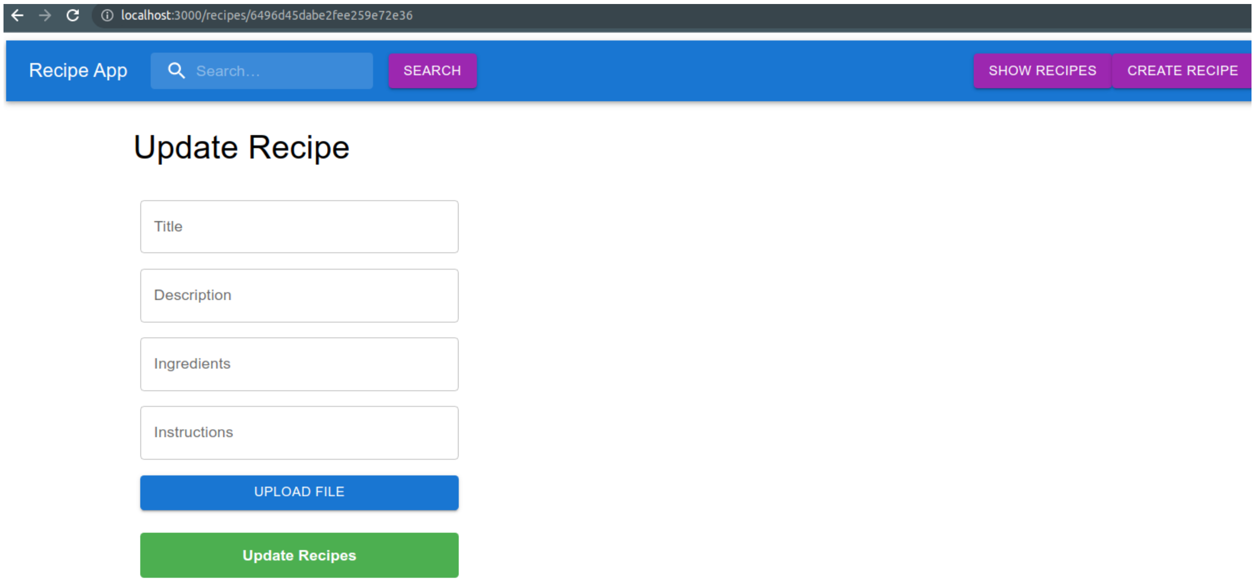
Edit Recipe

```
import FormControl from "@mui/material/FormControl";
import InputLabel from "@mui/material/InputLabel";
import { Box, OutlinedInput, Typography } from "@mui/material";
import { Button } from "@mui/material";
import { useEffect, useState } from "react";
import { Routes, Route, useParams } from "react-router-dom";
import Recipes from "./Recipes";

const EditRecipe = () => {
 let { id } = useParams();
 const [loading, setLoading] = useState(true);

 const [recipe, setRecipe] = useState({
   title: "",
   description: "",
   ingredients: "",
   instructions: "",
   image: "",
 });
 useEffect(() => {
   const fetchRecipe = async () => {
     const response = await fetch(`http://localhost:4000/recipes/${id}`);
     const data = await response.json();
     setRecipe(data);
   };
   fetchRecipe();
   setLoading(false);
 }, [id]);

 const handleChange = (event) => {
   setRecipe({
     ...recipe,
     [event.target.name]: event.target.value,
   });
 };

 const onSubmit = async (event) => {
   event.preventDefault();
   const { title, ingredients, instructions, description } = recipe;
   console.log(recipe);
   setLoading(true);
   const response = await fetch(`http://localhost:4000/recipes/${id}`, {
     method: "PUT",
     headers: {
       "Content-Type": "application/json",
     },
     body: JSON.stringify({
       title,
       ingredients,
       instructions,
       description,
     }),
   });
   const data = await response.json();
   setLoading(false);
   console.log(data);
```

```
};

return (
  <>
    {loading ? (
      <Typography variant="h4">Loading...</Typography>
    ) : (
      <Box
        sx={{
          display: "flex",
          flexDirection: "column",
          justifyContent: "center",
          width: "100%",
          marginTop: "2%",
          marginBottom: "2%",
          marginLeft: "10%",
        }}
      >
        <Typography variant="h4">Update Recipe</Typography>
        <form
          onSubmit={onSubmit}
          style={{
            display: "flex",

            flexDirection: "column",
            justifyContent: "center",
            width: "100%",
            marginTop: "2%",
          }}
        >
          <FormControl sx={{ m: 1, width: "25%" }} variant="outlined">
            <InputLabel htmlFor="component-outlined">Title</InputLabel>
            <OutlinedInput
              id="component-outlined"
              value={recipe.title}
              name="title"
              onChange={handleChange}
              label="Title"
            />
          </FormControl>
          <FormControl sx={{ m: 1, width: "25%" }} variant="outlined">
            <InputLabel
htmlFor="component-outlined">Description</InputLabel>
            <OutlinedInput
              id="component-outlined"
              value={recipe.description}
              name="description"
              onChange={handleChange}
              label="Description"
            />
          </FormControl>
          <FormControl sx={{ m: 1, width: "25%" }} variant="outlined">
            <InputLabel
htmlFor="component-outlined">Ingredients</InputLabel>
            <OutlinedInput
              id="component-outlined"
              value={recipe.ingredients}
              name="ingredients"
              onChange={handleChange}
              label="Ingredients"
            />
          </FormControl>
          <FormControl sx={{ m: 1, width: "25%" }} variant="outlined">
            <InputLabel
htmlFor="component-outlined">Instructions</InputLabel>
            <OutlinedInput
              id="component-outlined"
              value={recipe.instructions}
              name="instructions"
              onChange={handleChange}
              label="Instructions"
            />
          </FormControl>
          <FormControl sx={{ m: 1, width: "25%" }} variant="outlined">
            <Button variant="contained" component="label">
              Upload File
              <input type="file" hidden />
            </Button>
          </FormControl>
          <FormControl sx={{ m: 1, width: "25%" }} variant="outlined">
```

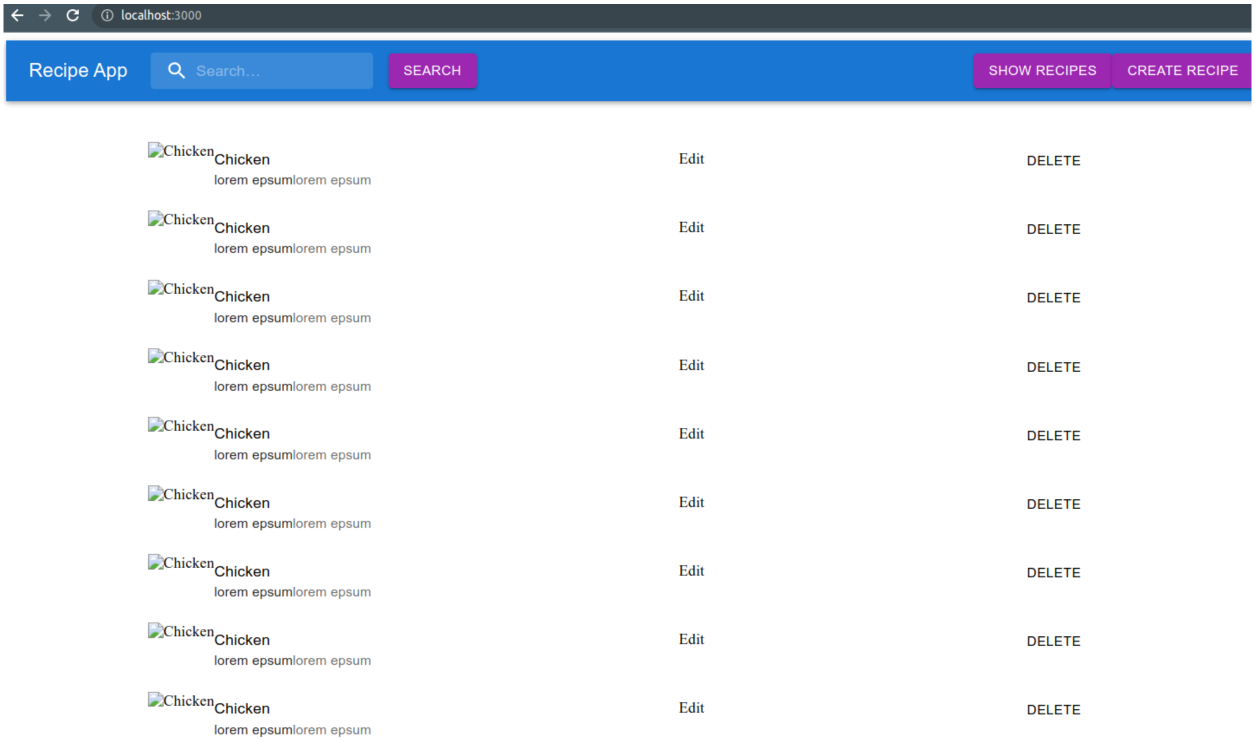
```
             <button
               type="submit"
               style={{
                 backgroundColor: "#4CAF50",
                 color: "white",
                 padding: "14px 20px",
                 margin: "8px 0",
                 border: "none",
                 cursor: "pointer",
                 width: "100%",
                 borderRadius: "4px",
                 fontSize: "16px",
                 fontWeight: "bold",
               }}
             >
               Update Recipes
             </button>
           </FormControl>
         </form>
       </Box>
     )}
   </>
 );
};
export default EditRecipe;
```



Recipes

```
import * as React from "react";
import List from "@mui/material/List";
import ListItem from "@mui/material/ListItem";
import Divider from "@mui/material/Divider";
import ListItemText from "@mui/material/ListItemText";
import { ImageListItemBar, ListItemButton } from "@mui/material";
import { ImageListItem } from "@mui/material";
import { Link } from "@mui/material";
import Button from "@mui/material/Button";

import Typography from "@mui/material/Typography";
import { Box } from "@mui/material";

export default function Recipes({ recipesList }) {
 const [recipes, setRecipes] = React.useState(recipesList || []);
 const [loading, setLoading] = React.useState(true);
 const [error, setError] = React.useState(null);
 React.useEffect(() => {
   if (recipesList) {
     setLoading(false);

     return;
   }
   fetch("http://localhost:4000/recipes/")
     .then((response) => response.json())
     .then((data) => {
       setRecipes(data);
       setLoading(false);
     })
     .catch((error) => {
       console.error("Error fetching data: ", error);
       setError(error);
       setLoading(false);
     });
 }, []);
 if (loading) return "Loading...";
 if (error) return "Error!";
 const handleDelete = async (id) => {
   const response = await fetch(`http://localhost:4000/recipes/${id}`, {
     method: "DELETE",
   });
   const data = await response.json();
   console.log(data);
   setRecipes(recipes.filter((recipe) => recipe.id !== id));
 };

 return (
   <Box
     sx={{
       display: "flex",
       flexDirection: "column",
       justifyContent: "center",
       width: "100%",
       marginTop: "2%",
       marginBottom: "2%",
       marginLeft: "10%",
     }}
   >
     <List
```

```
       sx={{
         width: "100%",
         maxWidth: "100%",
         marginRight: "10%",
         bgcolor: "background.paper",
       }}
     >
       {recipes.length === 0 ? (
         <Typography variant="h4">No recipes found!</Typography>
       ) : (
         recipes.map((recipe) => (
           <div key={recipe.id}>
             <ListItem alignItems="flex-start" width="100%">
               <ImageListItem key={recipe?.imageName}>
                 <img

src={`${"/public/logo192.png"}?w=248&fit=crop&auto=format`}

srcSet={`${recipe?.img}?w=248&fit=crop&auto=format&dpr=2 2x`}
                   alt={recipe.title}
                   loading="lazy"
                 />
                 <ImageListItemBar position="below" title={recipe?.author}
/>
               </ImageListItem>
               <ListItemText
                 primary={recipe.title}
                 secondary={
                   <React.Fragment>
                     <Typography
                       sx={{ display: "inline" }}
                       component="span"
                       variant="body2"
                       color="text.primary"
                     >
                       {recipe.description}
                     </Typography>
                     {recipe.ingredients}
                   </React.Fragment>
                 }
               />
               {/* add Edit Button */}
               <ListItemButton
                 component={Link}
                 to={`/recipes/${recipe["_id"]}`}
               >
                 Edit
               </ListItemButton>
               <ListItemButton
                 component={Button}
                 onClick={async () => await handleDelete(recipe["_id"])}
                 to={`/recipes/${recipe["_id"]}`}
               >
                 Delete
               </ListItemButton>
             </ListItem>
           </div>
         ))
       )}
     </List>
   </Box>
 );
}
```



```
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ChickenChicken                    Edit          DELETE
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lorem epsumlorem epsum
ChickenChicken                    Edit          DELETE
lorem epsumlorem epsum
ChickenChicken                    Edit          DELETE
lorem epsumlorem epsum
```

Index

```
import React from "react";
import ReactDOM from "react-dom/client";
import "./index.css";
import App from "./App";
import { createBrowserRouter, RouterProvider } from "react-router-dom";
import Layout from "./components/Layout";
import Recipes from "./components/Recipes";
import CreateRecipe from "./components/CreateRecipe";
import EditRecipe from "./components/EditRecipe";
import SearchRecipes from "./components/SearchRecipes";

const router = createBrowserRouter([
 {
   path: "/",
   element: <Layout children={<Recipes />} />,

   errorElement: <div>Not Found</div>,
 },
 {
   path: "/recipes/create",
   element: <Layout children={<CreateRecipe />} />,
 },
 {
   path: "/recipes/:id",
   element: <Layout children={<EditRecipe />} />,
 },
 {
   path: "/search/:search",
   element: <Layout children={<SearchRecipes />} />,
 },
 {
   path: "/recipes/:id/edit",
   element: <h1>Edit Recipe</h1>,
 },
 {
   path: "/recipes/new",
   element: <h1>New Recipe</h1>,
 },
]);

const root = ReactDOM.createRoot(document.getElementById("root"));
root.render(
 <React.StrictMode>
   <RouterProvider router={router} />
 </React.StrictMode>
);
```

Server Js

```
const express = require("express");
const app = express();
const cors = require("cors");
const mongoose = require("mongoose");
const Recipe = require("./models/recipe");
const multer = require("multer");
const fs = require("fs");
const port = 4000;
const { MONGO_URI } = require("./config.js");
const upload = multer({ dest: "images/" });

mongoose
 .connect(MONGO_URI)
 .then(() => console.log("MongoDB connected successfully"))
 .catch((err) => console.log(err));

app.use(express.json());
app.use(express.urlencoded({ extended: true }));
app.use(
 cors({
   origin: "http://localhost:3000",
   credentials: true,
 })
);

app.get("/", (req, res) =>
 res.json({ message: "server is running please got /recipes!" })
);

app.get("/recipes", async (req, res) => {
 try {
   const recipes = (await Recipe.find()).reverse();
   res.json(recipes);
 } catch (err) {
   console.error(err);
 }
});

app.post("/recipes", upload.single("image"), async (req, res) => {
 try {
   const { title, ingredients, instructions, description, imageName } =
     req.body;
   const image = req.file;
   // validate req.body
   // validate req.file
   // save file to disk
   if (!fs.existsSync("images")) {
     fs.mkdirSync("images");
   }
   if (
     title === undefined ||
     ingredients === undefined ||
     instructions === undefined ||
     description === undefined
   ) {
     res.status(400).json({ message: "Please fill out all fields" });
   }

   if (image !== undefined) {
     fs.writeFileSync(imageName + image.mimetype, content);
     //file written successfully
   }

   const recipe = new Recipe({
     title,
     ingredients,
     instructions,
     description,
     image,
   });
   await recipe.save();
   res.json(recipe);
 } catch (err) {
   console.error(err);
 }
});
app.delete("/recipes/:id", async (req, res) => {
 try {
   const { id } = req.params;
   console.log("delete ", id);
   const recipe = await Recipe.findByIdAndDelete(id);
   // TODO: also remove file from disk
   res.json(recipe);
 } catch (err) {
   console.error(err);
 }
});
app.put("/recipes/:id", async (req, res) => {
 try {
   const { id } = req.params;
   console.log(req.body);
   const recipe = await Recipe.findByIdAndUpdate(id, {
     $set: {
       ...req.body,
     },
   });
   res.json(recipe);
 } catch (err) {
   console.error(err);
 }
});

app.get("/search/:search", async (req, res) => {
 try {
   const { search } = req.params;
   console.log(search);
   const recipes = await Recipe.find({
     $or: [{ title: { $regex: search, $options: "i" } }],
   }).limit(5);
   res.json(recipes);
 } catch (err) {
   console.error(err);
   res.json({ message: "error" });
 }
});

app.listen(port, () => console.log(`Example app listening on port
${port}!`));
// Run the backend server with node backend/index.js
```