# MERN Recipe App with Authentication

Build a Full stack web application with MERN technology.

Final pages:

A screenshot of a recipe

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Description automatically generated with medium confidenceA screenshot of a login form

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Here we go, we create projects step by step.

Create two folders in project folder: client and server folder

1. npm install -g yarn
2. Client/ yarn create react-app .

Bug: A screen shot of a computer

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Debug:

1. npm install -g yarn
2. 系统属性-环境变量-系统变量-path-add yarn path

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1. server> yarn init -> asked questions don’t need answer, just enter
2. server> yarn add express cors bcrypt jsonwebtoken mongoose
3. server> yarn add --dev nodemon
4. add src folder in server and add index.js in src folder
5. either is ok. But if we use the import, we must add ("type": "module",) in package.json

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1. use the functions in index.js, and run server> node src/index.js to check whether server started.

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1. add this to package.json, so that everytime nodemon started use src/index.js, we don’t need to use it manually.

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1. create mongoDB database and link it to vscode, keep in mind to install mongoDB first:

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1. make request to database:
2. create models folder in server/src, and create Users.js in models folder, import mongoose, define schema and export usermodel in this file

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String, S is uppercase

1. connect mongoDB compass, and create new database: recipes

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1. create routes folder in server/src, and create users.js in routes folder,

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1. import userRouter in index.js

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1. get register post in routes:

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1. add data in database manually

A screenshot of a export collection

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1. try to post a data to database:

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1. add authentication and authorization functionality

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1. delete the data created by myself manually, and try to add data by using API, the password was hashed randomly.

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1. create login post and test it. If password is wrong will give error message, if correct will give token and userID:

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1. Back to Frontend to create recipe:
2. client> yarn start

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1. delete some files in client/src, and delete some lines in index.js and

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1. install some packages in react:

**client> yarn add react-router-dom** **axios react-cookie**

react-router-dom is used to create routes and different pages inside of our website

axios is used to fetching data

react-cookie is used to deal with cookies in react

1. set routes system in app.js

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1. create pages folder and some files in this folder

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1. export pages in each file:

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1. link to pages, if have error, try to restart the page by using: client> yarn start

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A close-up of a computer screen

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1. create components folder and navbar.js file in client/src

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1. create and write navigate file

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1. add navbar to App.js

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1. write App.css file

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1. edit components page, edit Register and Login UI:

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1. Make API requests

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A screenshot of a login screen

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1. Modify login to logout, when logging in:

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1. Creating API for recipes:
2. Add Recipes.js in server/src/models, and define RecipeSchema in this file:

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1. add recipes.js in server/src/routes, and define get & post routes in this file:

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1. link routes to index.js in server/src folder

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1. test adding recipes to database in insomnia:

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1. test getting recipes from database:

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1. import { UserModel } from "../models/Users.js", and add put, get "/savedRecipes/ids", get "/savedRecipes" routes

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1. add savedRecipes in UserSchema:

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1. create UI for recipe

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1. send data to API

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1. navigate to home page

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1. display all recipes on the home page

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1. add save recipe functionality:

A screenshot of a recipe

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1. display Saved Recipes page:

A screenshot of a menu

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1. Backend token to validate all the request:

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1. Display saved recipes only when user logged in.

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