Ecommerce

ReactJS FullStack Project (PART 1)

Aim of this project

- Create a FullStack NodeJS/ReactJS project
- Learn how to use Components, Props, Smart & Dump components, redux, react-router.
- This project will contain a Front-End part as well as an API linked to a MySQL database
- To perform this project you will chose your buddy and will work in a team of two.
- One of the goal of this project is also to teach you to be autonome when you do not know a technology
- You will need a Git repository of course, but better than your previous ones...
- This is new for everyone, so don't think to much, try and retry and retry until you succeed !

First Step : Two Tables

- 1 : We want you to create 2 differents tables "users" and "products". The columns inside your tables are on your choices (but discuss with your trainers to validate your conception).
- 2 : "Users" will store your registered users (as you guess)
- 3 : "Products" will store the different products you are selling (Products can only be created by a connected user).

First Step : API User Routes

- GET /users/ ⇒ Return the list of registered users (return only Names and Ids)
- POST /users/sign-up ⇒ Will add a user in the Users table (**of course the password will be encrypted...**)
- POST /users/sign-in ⇒ Will check whether the password is the good one for this specific email. **If so it will deliver a JWT including Email and Id of this User**.

- BONUS : GET /users/:id ⇒ Return all the datas of this specific User (including the name of the products he created...)

First Step : API Products Routes

- GET /products/ ⇒ Return the list of registered products (Including what is necessary to display on the productList page)
- POST /products/ ⇒ Will add a product in the Products table (only if the user who create the product has a good JWT...)

- GET /products/:id ⇒ Return all the datas of this specific Product (including the name of the user who created it, the description etc...)

First Step : Mockups

- Make the Mockups of your different pages (Home displaying the products / Sign in page / Sign up page / Adding product page / Product page / Product List page).
- Make both mobile phone and desktop mockups.
- Make it very easy with too much complicated stuffs

First Step : Front-End

- Using ReactJS you will have to implement and integrate you mockups
- You can start by the part you want. But we encourage you to start with "fakes" that means without the true connection to the API (in order to learn how to render a list of fake products by example).
- You will have to work with react-router-dom as well to have multiple "pages" (SignIn / SignUp / CreateProducts / ProductPage / ProductListPage)
- Use Bootstrap React, which is pretty much the same as BootstrapVue
- In order to know if you are authenticate or not, you will store the jwt you received when signIn in the localstorage as well as your name and your id (which are in the jwt itself)

First Step : Front-End

- Bonus : You will also work with a store (react redux) for both the user informations and the products.
- Verify if the user is connected to be able to reach the ProductListPage, the ProductPage as well as the CreateProductPage.

First Step : Help

- We advise you to start one page together, then to share the rest in order to have some assigned tasks.
- We do not want you to watch long video tutorials (waste of time).
- Ideally, do not follow "complete tutorials", none will make what we want you to do.
- Basically, we already did everything we ask you. API / DB / Displaying a List and so on...
- This step is really the hardest we will do for this project. It means you will create your own logical, your own implementation. Please, do not panic, we are here to help you and your workmates too.

First Step : Help

- Be confident with yourself. If you think something can be done in a way, then try, you will see.
- Have a good conversation with your teammate in order to be sure you want the same things before starting.
- Once again, do not panic. This project isn't a punishment, it's an occasion to learn, to practice and to validate your skill tree at level 3.
- This may looks like a complete project, but actually, isn't a complete ecommerce platform, it lakes lots of features but we will implement those on next steps.
- HAVE FUN, PRACTICE, TRY, FAIL, RESEARCH, TRY, FAIL, RESEARCH, TRY, SUCCESS

STEP 2

Second Step : Improvement

- Once again, congratulations everyone to reach this point. You needed a set of skill to be able to finish the first step.
- We now want to improve what we did earlier.
- Do not be afraid, what you did already is harder that what we ask you to do right now
- All the features we ask you can be do in disorder.

Second Step : Profile

- When a click on the profile picture, we now want to display a Profile
- We can edit our informations.
- We can find the products we created.
- We can erase them as well as edit them

Second Step : Profile

HamacAttitude   Products   Add Product   SignOut
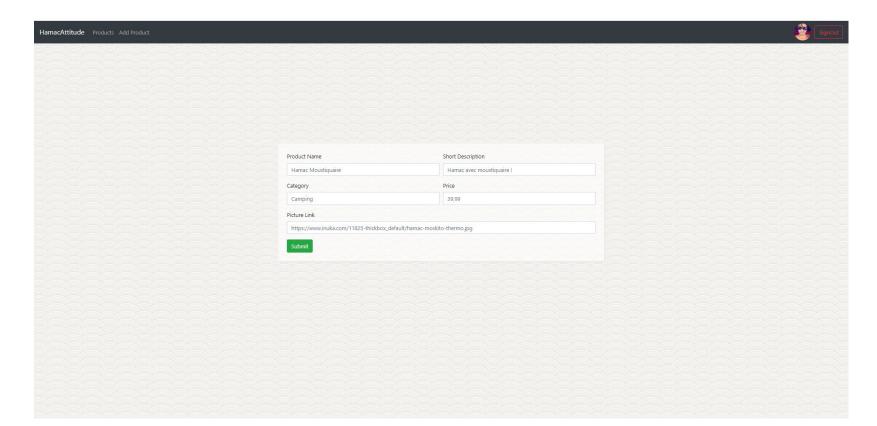
Edit your Profile

First Name   LastName

[Enter Your First Name]   [Enter Your Last Name]

Email address   Profile Picture

[Enter email]   [Enter your profile picture link's]

We'll never share your email with anyone else.

Password   Confirm Password

[Password]   [Password]

[Submit]

Your Products

Name	Short Description	Category	Picture	Price	Actions
Hamac Moustiquaire	Hamac avec moustiquaire !	Camping		39,99	Edit Delete
Bâche 3x3m	Bâche de camping.	Camping		29,99	Edit Delete
Paire de Sangle 2,8m	Une paire de Sangle très robuste de 2,8m	Camping		9,99	Edit Delete
Lunette loupe	Une paire de lunette anti reflets bleues	Accessoires		49,99	Edit Delete

Second Step : Edit product

- Now that we can create a product we want to be able to edit it (only if it's a product that we create.
- You are free in the way of implement it but a good advice can be to send the entire product object to the request (to take the same base code of the add product).
- You can change the name, the category, the picture, the price and everything.

Second Step : Edit product

SignOut

Product Name

Hamac Moustiquaire

Short Description

Hamac avec moustiquaire !

Category

Camping

Price

39,99

Picture Link

https://www.inuka.com/11825-thickbox_default/hamac-moskito-thermo.jpg

Submit

Second Step : Add to cart

- As every ecommerce we want to have a Cart.
- We now can add to cart a certain amount of product (2x Hamac Moustiquaire, 3x Paire de Sangles... And so on).
- We will not store the cart into de DB (only the redux store) since isn't confirmed.
- When the customer click on the "PAY" button on the cart page, we will add this cart to the DB

  Moreover we will create a page who show the previous Cart we did (named : "My Orders"
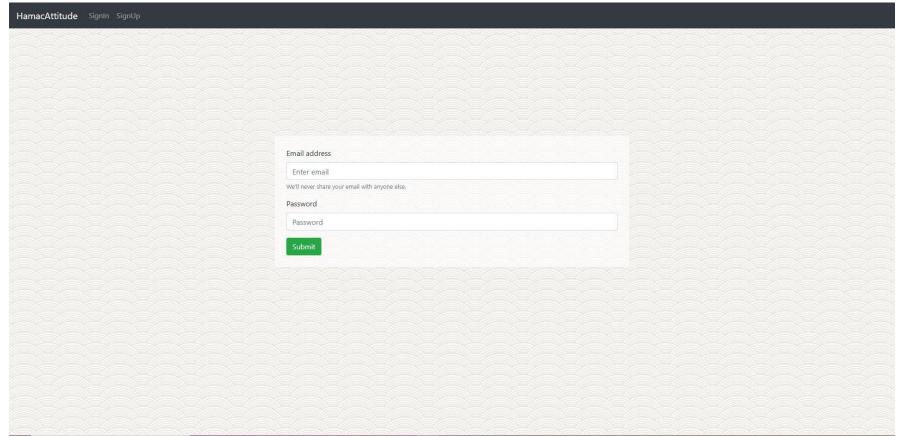
Second Step : Improve the product

- If I want to sell my product on sale, I can choose to put another price but keep showing the actual price as well (4€50 instead of 7€99).
- If I sell Roses, I can have different colors by example. To do so, we can think of a way to create variant for products.
- Surely I want to add multiples pictures of my product, think of a way to implement it

Second Step : List product per Category

- On the Product List Page, I want to be able to see only the product of a certain Category, to do so we can think of a "select" who will help us to filter through the categories

Hints : We can create a new endpoint "GET /category" who will send only the names of the (unique) categories
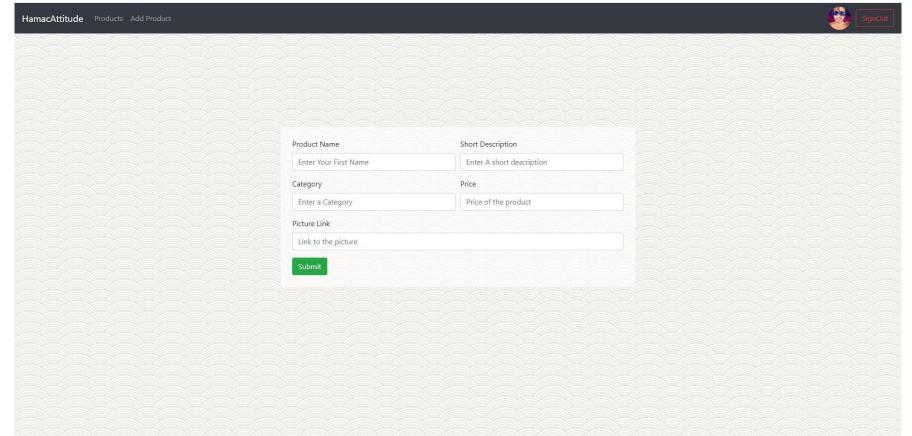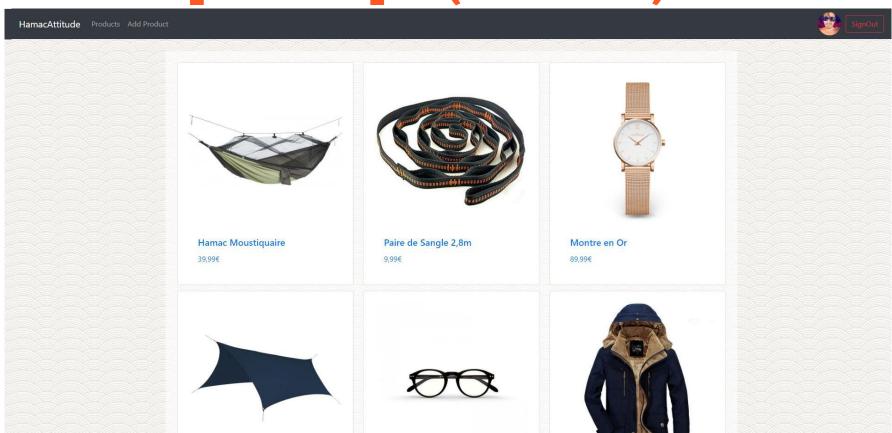
First Step : Example (SignIn)

Email address

Enter email

We'll never share your email with anyone else.

Password

Password

Submit

First Step : Example (SignUp)

First Name

Enter Your First Name

LastName

Enter Your Last Name

Email address

Enter email

We'll never share your email with anyone else.

Profile Picture

Enter your profile picture link's

Password

Password

Confirm Password

Password

Submit

First Step : Example (AddProduct)

HamacAttitude   Products   Add Product   SignOut

Product Name   **Short Description**

Enter Your First Name   Enter A short description

Category   **Price**

Enter a Category   Price of the product

Picture Link

Link to the picture

Submit

First Step : Example (Products)

First Step : Example (Product)