

Project Development Plan

Technology reference and document:

1. T3 app: <https://create.t3.gg/en/introduction>
2. Next.js: <https://nextjs.org/docs>
3. Prisma: <https://www.prisma.io/docs>
4. Tailwind CSS: <https://tailwindcss.com/docs/installation>
5. React: <https://reactjs.org/docs/getting-started.html>

Functionalities:

1. User authentication
 - a. The user is able to sign up through different methods, and the record of the user will be created in the database
 - i. Gmail
 - ii. Manual
 - iii. Facebook
 - b. The login function of a user is through the same methods.
2. Shopping cart (add / remove / edit)
 - a. The product can be add/remove/edit to user's personal shopping cart
 - b. Each group will have its own shopping cart and will be populated with the products chosen by the group members
 - c. Once the user checkout the products in the personal shopping cart, all items will become Order
3. User profile (add / remove / edit)
 - a. User can add/ remove/edit their profile of its account
4. Display product images
 - a. Each product will have its own product image, this function will need a method to get the images from the server we have and display to the frontend.
 - b. Image type should accept img, jpg.
5. Checkout / payment
 - a. A payment button will be attached to the shopping cart.
 - b. When clicking the payment button, the page will jump to a safe payment interface
 - c. User can choose to use either PayPal or credit card to checkout.
 - d. For this part, please use imported library and list the sources so we can have another check.

6. Product search

- a. A user can search a product by its name, anything matched will be displayed on the screen
- b. If user search the category instead, all matched result will be displayed. A user can choose multiple categories.

7. Group shopping

- a. A group is created by one and only one group master.
- b. A group master is also a user but with the role of group master
- c. 0 or many Registered users can choose to join one particular group.
- d. Registered user can choose to join zero or many groups.
- e. A group has its own shopping cart and user can add products into the group shopping cart.
- f. Each product in the cart will have clear record on who is buying it and all information(user, group, product, time)stored in the database.
- g. Each group will have a time limit. For example, the group master choose to create a group for 2 days. Within the periods, group member can add/edit/delete any product and make any changes during this time. Once the time is up. The products in the group shopping cart will be locked and can not make any change. Then, the group master will make the full payment calculated based on the sum of product price. An order will be generated after the payment is done and will be stored in Order table of database
- h. Group master can create invitation link of the group for user to join.
- i. Group master can add/ remove group member.

8. Language switch

- a. This one please create a template for us to manually fill out the contains
- b. A backend logic for us to auto switch the language based on user's ip region.