

BNY Mellon Home Assignment

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Overall process:

i) I gave extra thoughts about adding the new module (as an independent or child of orderModule), choosing to make this module less dependent with orderModule is **preferred** due to coupling and scalability reasons, in real life I would converse about it with product/UI/team leader.

ii) The second issue was deciding about new component's responsibilities - I choose to keep it as dumb as possible (the new component display the orderForm, emits new IOrderWrapper object to parent component (orders)).

iii) Last but not least, I've decided to retrieve all the users to order component and send the list as input to the new-order component. I believe best practice is to implement a lazy loading mechanism for this - retrieve users in chunks OR using an auto-complete to retrieve specific users.

It's not recommended to retrieve all users due to scalability issues (this was ignored for this home assignment due to size of the static data && time factor).

Assumptions:

The order name is free-text,

No limits on item cost,

Customers can have as many Orders with as many products that they want.

TroubleShooting:

I've accidentally read that you want me to use **sessionStorage**, so for an 1.5 hours I've implemented this solution, until you've answered my email and I read it again - which made me understand the task better.

I'll add that my intention with **sessionStorage** was to use it for adding new orders (saving them with customerId as key), later to add them in relevant components (customer-orders component && orders component).

Notes:

I had fun submitting this home-assignment,

The task was clear && the basic skeleton was coherent and good-implemented,

In real life (or more time) I would:

i) Add tests to server-side

ii) Implement a method to **retrieve customers list in chunks/Infinite-scroll on the list** or any other lazy-loading implementation, **use cache** to save customers and orders in the app and **implement login** (the login method returns true for every reasonable userEmail && password entered).