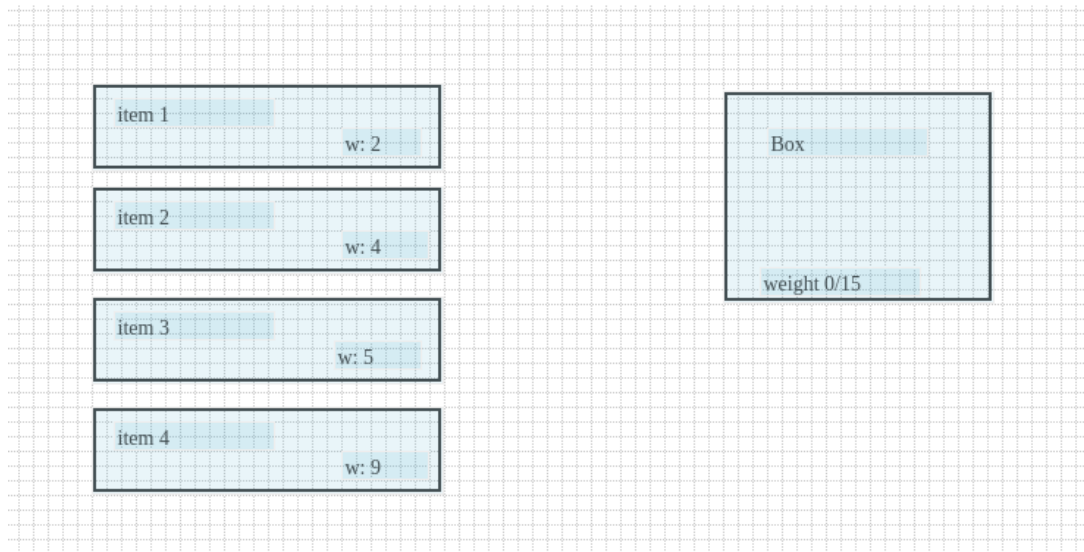


The Challenge

A client is asking us to create a system, where multiple users can create, fill and ship a box in realtime. The idea is that a user can create a box, and many users can fill that box with many many items. However, there are some limitations, that a box can not have infinite, items. Instead a box has a max weight, which can be set by the user creating that box. You can only put items when there is no way to exceed the weight of the box. A quick mock image is provided bellow (but by any means, this is not the final design, you have free reign over it, and can modify it as you see fit)



You can use any backend you desire, however your frontend framework is React. Any npm modules are permitted to use.

Specs

- Users can connect to the app
- Any user can create a box
- All users must be able to see a box or boxes that have been created
- Users can **drag and drop** items into a said box. Until the box is full
- Users cannot overfill a box. The box cannot exceed its weight limit
- User that created the box is able to “ship” it out (make it disappear off the screen)
- Everything must be done in real time

Stretch

- When an item is being dragged, No other person can drag that said item.
- Make a navbar to display total number of users that are online
- Notification system where it somehow displays to everyone:
“User _____ has put item _____ into Box _____”
- Data persisted (using mongoDB or Redis)