## **Submission** -

## Github link to [lucidtasksubmission@gmail.com](mailto:lucidtasksubmission@gmail.com)

## Send a Hosted Version from Vercel or a similar hosting services

## Hello,

## You have 5h hours to complete the task, send whatever you manage to complete.

# The Task:

## Implement the formula input functionality as it is seen in causal.

link to video displaying the UI to implement - [link](https://drive.google.com/file/d/1MPoigDofqDo579eiEAB-QQqYhFrbeSUF/view?usp=drive_link)

## You must go to [causal.app](https://www.causal.app/), and edit a formula to see the entire functionality - DO NOT START THE TASK UNTIL YOU DID.

## How to login to causal

## Go to causal

## Signup for a free trial

## Assign a new template

## Open the formula input and play with it to understand it

* Video showing how to do it - [link](https://drive.google.com/file/d/1Mh1xKLYWQoSaJrNsp6s89g0a_YBmcADz/view?usp=drive_link)

## **Features :**

## managing local state in Zustand

* manage API state in React Query - Use this [endpoint](https://652f91320b8d8ddac0b2b62b.mockapi.io/autocomplete) for autocomplete suggestions in React query
* Formula Input Features:
  + Supporting operands between tags - (+,-,\*,(,),^,/…..)
  + Support adding natural numbers (1,2,3)
  + Supporting writing between tags
  + Deleting a TAG with backspace
  + Autocomplete suggestions - Support autocomplete also after an operand is written
  + **MANDATORY -** Adding attached dropdown to each tag. - Add the dropdown attached to the tag on the right, allowing to interact with the dropdown on each tag.
  + Calculating values is a bonus (Assign some dummy variable values and accept the operations).

## Important notes

* We are looking for functionality first!, design is a second priority (but also very important).
* You can use whatever libraries and online solutions you find, we encourage you to search for solutions that will help you implement them. (Hint - check how they do it on causal)
* **Hint** - Think about what kind of tools coders are using that look similar to this functionality of a hybrid input with autocomplete

Good Luck