

## Ideation Phase

### Define the Problem Statements

Date	19 September 2022
Team ID	PNT2022TMID22056
Project Name	Project – Retail Store Stock Inventory Analytics
Maximum Marks	2 Marks

I am	I'm trying to	But	Because	Which makes me feel
A Teacher	Purchase products from retail store	The needed product is out of stock	The retailer doesn't have track of the available stocks	Disappointed
I am	I'm trying to	But	Because	Which makes me feel
A Retailer	Make happy customers	I find it difficult to make up with the inventory to be purchased	Of fluctuations in sales	Frustrated

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A Teacher	Purchase products from retail store	The needed product is out of stock	The retailer doesn't have track of the available stocks	Disappointed
PS-2	A Retailer	Make happy customers	I find it difficult to make up with the inventory to be purchased	Of fluctuations in sales	Frustrated

## **Problem Statement :**

Karan is a retail store manager who needs short-term forecasting on how much inventory to order or produce. If he goes out of stock this leads to unhappy customers for him.

In a continuous review system, he continuously monitors the inventory position. Whenever inventory position falls at or below level the manager orders required units called order quantity.

In inventory system, demand is usually uncertain and lead-time can also vary. To avoid shortages manager often maintains a safety stocks.

In such a situation it is not clear what order quantity should be done. So, he wants to visualize the data of stock and sales to maintain how stock should be purchased for each product to make happy customers as well as not to purchase too much product which might increase the capital cost, operation cost and leads to complex operation.