## Project Design Phase – I

## **Proposed Solution**

Date	23 September 2022		
Team ID	PNT2022TMID31159		
Project Name	Retail Store Stock Inventory Analysis		

S.No. **Parameter Description** To predict the stock demand and give insight to **Problem Statement** retailers regarding the demand (Problem to be saved) 2. To predict and visualize the season sales with help of historical sales data for the products 2. Idea / Solution As we know Inventory management deals with stock demand and supply which helps retailers to improve description their business with more profit 2. By understanding the dataset and identifying the pattern and relationship with the help of python libraries like pandas, NumPy, TensorFlow, Keras, matplotlib 3. To create meaningful dynamic dashboards with help of IBM tools like IBM Cognos IBM cloud etc. 3. Novelty / Uniqueness Season Sales: We know that season sales occur during a particular month or period of the year and some products are brought in large quantities during that period. And some products are brought along with other products. For example, During the Pongal sale if a person buys rice he/she may also buy jaggery, ghee, or dry fruits. If we analyze those records we can and supply them accordingly. As for leftover milk which has an expiry of one day we can convert the milk to other by-products like curd, ghee, butter, etc., and milk has a short lifetime for which we can fix competitive prices 4. Retailers will know the market trends and also what products Social Impact / are brought frequently together 5. This business model will increase the number of sales by **Business Model** the quantity of stock available because the stocks are (Revenue Model) stored in the warehouse depending upon the demand from the customers 2. This idea will increase the profit because we can sell the by-products of milk which increases the profit by multifolds than the raw product milk itself.

6.	Scalability of the Solution	1.	This idea will predict the most selling product during season sales which can optimize overstocking and understocking
		2.	This model can be scaled from corner shop retailers