PROJECT DESIGN PHASE-I PROPOSED SOLUTION

Date	23 September 2022
Team ID	PNT2022TMID40162
Project Name	Retail Store Stock Inventory Analytics

S.No	Paramete	Description
1.	Problem Statement (Problem	To develop a ratail store stock
1.	Problem Statement (Problem	To develop a retail store stock
	to be solved)	inventory management system that
		allows retailers to meet customer
		demand without running out of
		inventory or carrying an excess
		supply.
2.	Idea / Solution description	Retail store stock inventory analytics
		is used to analyze a retailer's historical
		sales data. By thoroughly
		understanding the dataset, identifying
		patterns, relationships, and
		connections using python libraries
		such as pandas, and using IBM
		Cognos analytics to create stock
		inventory visualizations and
		meaningful dashboards. The final
		dynamic dashboard assists retailers by

		providing detailed product listings,
		easy categorization, inventory reports
		that meet customer needs, and product
		demand variations.
3.	Novelty / Uniqueness	This solution entails analyzing the
		sales ratio and calculating stock
		availability. It identifies the retailer
		of out-of-stock commodities as well
		as the most popular products among
		customers. It also involves the use
		of both IBM Cognos analytics tool
		and python libraries for
		visualization.
4.	Social Impact / Customer	All products needed by the
	Satisfaction	customer will be available
		and hence customer
		satisfaction is increased.
5.	Business Model (Revenue	Improve the decision-making
	Model)	process with the goal of lowering
		costs and increasing revenue.
		Retailers can understand the
		most intimate customer needs and
		tailor their offerings to meet their
		customer needs.